Faculty of Architecture

COURSE SYLLABUS

URBAN DESIGN - TRANSFORMATIONS OF URBAN STRUCTURES

Course title in English Urban Design - urban structure transformation
Academic major: **Architecture and Urban Planning**
Study cycle and study mode: Second cycle, full-time/part-time
Course type: elective
Course code: AUA 105663W, AUA 105664P
Group of courses: NO

	Lecture	Tutorial	Lab	Project	Seminar
Number of contact hours	30			45	
Number of student workload hours	60			90	
Grading policy	Examination			credit	
ECTS points:	**2**			**3**	
Including ECTS points for practical hours (P)				**3**	
Including ECTS points for contact hours (CH)	**1**			**1**	

PREREQUISITES RELATING TO KNOWLEDGE, SKILLS AND OTHER COMPETENCIES

- Knowledge of the basic issues relating to the design of complexes of single-family and multi-family houses.
- Knowledge of issues of 1st cycle of study in the field of urban design courses.

COURSE OBJECTIVES

C1. To familiarize students with the system of spatial planning and the basic tools of spatial policy, methods of preparing analyzes of internal and external conditions and the interpretation of their results.
C2. To develop skills in developing and presenting spatial development project for a building complex with greenery and selected urban facilities.
C3. To develop skills in preparing land use plan for selected urban area.

COURSE LEARNING OUTCOMES

Related to knowledge:

PEK_W01 Demonstrate knowledge of the spatial planning system and basic tools of spatial policy in Poland and the EU.
PEK_W02 Demonstrate knowledge of contemporary ideas of shaping space in cities.
PEK_W03 Identify principles of formulating local zoning plans for advanced urban complexes using the applicable notation.
PEK_W04 Demonstrate broad knowledge which takes into consideration the interdisciplinary character of circumstances of urban planning.
PEK_W05 Demonstrate advanced knowledge of parameters of traffic engineering and the principles of designing roads, streets, cycle lanes, pedestrian precincts and parking lots and equipment of technical infrastructure.
PEK_W06 Identify the regulations and procedures of formulating local land-use plans. zoning and their impact on the investment.

Related to skills:

PEK_U01 Prepare complex analysis of external and internal circumstances and their synthesis and interpret the results.

PEK_U02 Interpret guidelines from superior planning studies and implement them in professional design practice.

PEK_U03 Identify and characterize elements of urban structures and classify functions. urban

PEK_U04 Develop the spatial structure of urban complexes with consideration of the functional program, communication services, spatial composition, connections with service centers and green areas.

PEK_U05 Characterize urban coefficients and parameters and understand relations between them.

PEK_U06 Start creative work in design. urban.

PEK_U07 Prepare and present the result of their design work in the form of a local land-use plan zoning of increasing complexity, taking into account technical , social, natural, cultural and legal requirements

PEK_U08 Demonstrate skills in developing the human environment with consideration of relationships between people and buildings and space.

PEK_U09 Solve different types of spatial problems and conflicts.

Related to social competencies:

PEK_K01 Understand the impact of provisions of land-use plans on the urban shape and functioning of space.

PEK_K02 Understand the role of urban planners in developing a valuable and safe space.

PEK_K03 Understand the profession of architect - urban planner and the influence of studies they create on the quality of environment.

PEK_K04 Demonstrate readiness to start work in urban planning studios, units local administration responsible for urban development.

PEK_K05 Demonstrate readiness to start research work in the areas of urban design.

CURRICULUM CONTENT		
Mode of teaching - lectures		Number hours
Lec1	Scope of the lecture, course completion requirements, literature. The role of the study of circumstances and trends of the spatial development of the commune in city development.	2
Lec2	Scope of analyzes related to external circumstances and internal of urbanized space.	2
Lec3	Superior planning documents: the concept of national spatial development plan, zoning plan for province, national and regional operational programs.	2
Lec4	Ideas for developing city space.	2
Lec5	Typology of city structures. Exogenous and endogenous functions of cities.	2
Lec6	The role of local planning in the development of space. Planning tools - local land use plans. The role of "special laws" in the shaping of space.	2
Lec7	Principles of designing transport systems in the city: vehicular, pedestrian, cycling, rail communication and public transport.	2

Lec8	Principles of functional program development of the urban planning team: idea of school unit, idea of the sustainable development. Hierarchy of service centers.	2
Lec9	Creating a balance of land use, parameters and indicators.	2
Lec10	Overview of selected examples of developing urban developments.	2
Lec11	Elements of Urban Design	2
Lec12	Interpretation of planning guidelines in the land-use plan.	2
Lec13	Design of public space in cities - overview of selected examples.	2
Lec14	Problems of contemporary cities.	2
Lec15	Relations of architectural structures with surrounding urbanized space.	2
	Total hours	**30**

Mode of teaching - project		Number hours
Pr1	Overview of the scope of the project, course completion requirements, literature. Handing out of output materials for the project.	3
Pr2	PRESENTATIONS Overview of aggregate determinants in the form of presentation: - external factors related to location and communication; - natural and cultural circumstances; - internal conditions (guidelines from the study and the adjacent master plans)	3
Pr3	CONSULTATIONS. Overview and summary of the problems associated with presentations during previous classes - summary. Schematic diagram, inspirations - examples of solutions	3
Pr4	CONSULTATIONS. - vehicular and pedestrian communication schemes;. - scheme of pedestrian communication links, green and recreational areas.	3
Pr5	CONSULTATIONS. - functional program, (housing, services); - distribution scheme of commercial facilities.	3
Pr6	CONSULTATIONS. - site summary, - composition diagram, - urban visualizations , - choosing the project area of urban concept.	3
Pr7	2nd PRESENTATION OF PROJECTS. - functional and spatial schemes - 1:5000 scale, - functional program, - site summary.	3
Pr8	CONSULTATIONS. Overview and summary of the problems associated with projects. The urban concept of the selected area at a scale of 1:2000 with elements of planning arrangements: basic and complementary functions of areas, lines dividing areas of functional units, frontage, walls of green, markings of the functions of areas, public pathways, compositional elements, parameters and indicators pertaining to the development of land and buildings (building	3

	height, building intensity, the shape of roofs, building area index, share, biologically active areas, the indicator of parking places, defining public spaces).	
Pr9	CONSULTATIONS. Urban sections	3
Pr10	CONSULTATIONS. Model - scale 1:1000	3
Pr11	3RD PRESENTATION OF PROJECTS. The urban concept of a selected area – 1:1000/1:500 scale	3
Pr12	CONSULTATIONS - Design of selected public space – projection at a scale of 1:1000/1:500	3
Pr13	CONSULTATIONS - Design of selected public space – sections	3
Pr14	CONSULTATIONS - Design of selected public space – visualizations	3
Pr15	Presentation and submission of final projects. Credit	3
	Total hours	**45**

TEACHING TOOLS	
1.	Lecture with multimedia presentation
2.	Individual project consultations with the instructor.
3.	In-class assignments on a given topic.
4.	Own work - preparation of the project for presentation and submission.
5.	Individual work – study and preparation for the final examination.

ASSESSMENT OF ACHIEVEMENT OF LEARNING OUTCOMES

Lecture

Assessment (F – formative (during the semester), S – summative (at the end of semester)	Number of learning outcome	Method of assessing the achievement of the learning outcome
P	PEK_W01 ÷ PEK_W06 PEK_U01 ÷ PEK_U09 PEK_K01 ÷ PEK_K05	Written exam

Project

Assessment (F – formative (during the semester), S – summative (at the end of semester)	Number of learning outcome	Method of assessing the achievement of the learning outcome
F1	PEK_U01 ÷ PEK_U4	Presentation of project.
F2	PEK_U05 ÷ PEK_U7	Presentation of project.
F3	PEK_U08 ÷ PEK_U09	Presentation of project.
F4		project
P =F1x0,2+F2x0,2+F3x0,2+F4x0,4		

BASIC AND ADDITIONAL LITERATURE

BASIC LITERATURE

1. Chmielewski Jan Maciej, Teoria urbanistyki w projektowaniu i planowaniu miast, Oficyna Wydawnicza Politechniki Warszawskiej, Warszawa 2001;
2. Chmielewski Jan Maciej, Więcławowicz G.(red.) Studium uwarunkowań i kierunków zagospodarowania przestrzennego, a miejscowe plany zagospodarowania przestrzennego, Komitet Przestrzennego Zagospodarowania Kraju PAN, Warszawa 2010;
3. Duanay Andres, The smart growth manual, New York , McGraw-Hill 2010
4. Gehl Jan, Życie między budynkami. Użytkowanie przestrzeni publicznych, Kraków 2009;
5. French Hilary, New urban housing / Hilary French., Laurence King, London, 2009.
6. Wejchert Kazimierz, Elementy kompozycji urbanistycznej, Arkady, 2008;
7. Ustawa z dnia 27 marca 2003r o planowaniu zagospodarowaniu przestrzennym.(Dz. U. Nr 80, poz.717 z późn.zm.);
8. Lance Jay Brown, Urban design for an urban century: placemaking for people, John Wiley & Sons, cop. Hoboken 2009;
9. Lorens Piotr. Gospodarowanie przestrzenią, a polityka równoważenia rozwoju. Urbanista 9/2005;
10. Ostrowski W., Wprowadzenie do historii budowy miast. Ludzie i środowisko, Oficyna Wydawnicza Politechniki Warszawskiej, Warszawa 1996;

ADDITIONAL LITERATURE

1. Charter of Athens.
2. New Charter of Athens.
3. Yeang, Ken, Ecomasterplanning , Wiley, Chichester 2009;
4. Zuziak Zbigniew K. O tożsamości urbanistyki , Wydawnictwa PK, Kraków 2009.
5. Longstreth R., City Center to Regional Mall, MIT Press, Cambridge 1997;
6. Parysek, Jerzy Jan , Miasta polskie na przełomie dwudziestego i dwudziestego pierwszego wieku, BWN, Poznań 2005;
7. Ustawa z dnia 7 lipca 1994 r. - Prawo budowlane (Dz.U. z 1994 Nr 89 poz. 414 z późn.zm.);
8. Ustawa z dnia 21 marca 1985 r. o drogach publicznych (Dz.U. 1994 nr 89 poz. 414 z późn.zm.);
9. Korzeniewski W., Parkingi i garaże dla samochodów osobowych, COIB, Warszawa 1997;
10. Rozporządzenie Ministra Infrastruktury z dnia 26 sierpnia 2003 r. w sprawie wymaganego zakresu projektu miejscowego planu zagospodarowania przestrzennego (Dz. U. Nr 164, poz. 1587);
11. Rozporządzenie Ministra Infrastruktury z dnia 12 kwietnia 2002 r. w sprawie warunków technicznych, jakim powinny odpowiadać budynki i ich usytuowanie. (Dz.U. z 2002 Nr 75 poz. 690 z późn.zm.);
12. Rozporządzenie Ministra Transportu i Gospodarki Morskiej z dnia 2 marca 1999 r. w sprawie warunków technicznych, jakim powinny odpowiadać drogi publiczne i ich usytuowanie (Dz.U. 1999 nr 43 poz. 430).

COURSE ADVISOR (NAME, SURNAME, E-MAIL)

Robert Masztalski PhD, robert.masztalski@pwr.wroc.pl

EQUIVALENCY MATRIX OF LEARNING OUTCOMES FOR COURSE
URBAN DESIGN - TRANSFORMATIONS OF URBAN STRUCTURES
WITH THE LEARNING OUTCOMES FOR ARCHITECTURE AND URBAN PLANNING MAJOR

Course learning outcome	Relation of course outcome with learning outcomes formulated for the major	Course objectives	Curriculum content	Number of teaching tool
PEK_W01÷ PEK_W06	K2AiU_W01, K2AiU_W02, K2AiU_W03, K2AiU_W06, K2AiU_W07	C1÷ 3	Lec1÷ Lec15	1÷6
PEK_U01÷ PEK_U08	K2AiU_U04, K2AiU_U04, K2AiU_U07, K2AiU_U08	C1÷ 3	Pr.1÷ Pr15	1÷ 6
PEK_K01÷ PEK_K05	K2AiU_K02, K2AiU_K03	C1÷ 3	Lec.÷Lec15 Pr1÷Pr15	1÷6

Faculty of Architecture

COURSE SYLLABUS

URBAN DESIGN - TRANSFORMATIONS OF URBAN STRUCTURES

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Study cycle and study mode: Second cycle, full-time/part-time
Course type: elective
Course code: AUA 105663W, AUA 105664P
Group of courses: NO

	Lecture	Tutorial	Lab	Project	Seminar
Number of contact hours	30			45	
Number of student workload hours	60			90	
Grading policy	Examination			credit	
ECTS points:	**2**			**3**	
Including ECTS points for practical hours (P)				**3**	
Including ECTS points for contact hours (CH)	**1**			**1**	

PREREQUISITES RELATING TO KNOWLEDGE, SKILLS AND OTHER COMPETENCIES

- Knowledge of the basic issues relating to the design of complexes of single-family and multi-family houses.
- Knowledge of issues of 1st cycle of study in the field of urban design courses.

COURSE OBJECTIVES

C1. To familiarize students with the system of spatial planning and the basic tools of spatial policy, methods of preparing analyzes of internal and external conditions and the interpretation of their results.
C2. To develop skills in developing and presenting spatial development project for a building complex with greenery and selected urban facilities.
C3. To develop skills in preparing land use plan for selected urban area.

COURSE LEARNING OUTCOMES

Related to knowledge:

PEK_W01 Demonstrate knowledge of the spatial planning system and basic tools of spatial policy in Poland and the EU.
PEK_W02 Demonstrate knowledge of contemporary ideas of shaping space in cities.
PEK_W03 Identify principles of formulating local zoning plans for advanced urban complexes using the applicable notation.
PEK_W04 Demonstrate broad knowledge which takes into consideration the interdisciplinary character of circumstances of urban planning.
PEK_W05 Demonstrate advanced knowledge of parameters of traffic engineering and the principles of designing roads, streets, cycle lanes, pedestrian precincts and parking lots and equipment of technical infrastructure.
PEK_W06 Identify the regulations and procedures of formulating local land-use plans. zoning and their impact on the investment.

Related to skills:

PEK_U01 Prepare complex analysis of external and internal circumstances and their synthesis and interpret the results.

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PEK_U07 Prepare and present the result of their design work in the form of a local land-use plan zoning of increasing complexity, taking into account technical , social, natural, cultural and legal requirements

PEK_U08 Demonstrate skills in developing the human environment with consideration of relationships between people and buildings and space.

PEK_U09 Solve different types of spatial problems and conflicts.

Related to social competencies:

PEK_K01 Understand the impact of provisions of land-use plans on the urban shape and functioning of space.

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PEK_K04 Demonstrate readiness to start work in urban planning studios, units local administration responsible for urban development.

PEK_K05 Demonstrate readiness to start research work in the areas of urban design.

CURRICULUM CONTENT		
Mode of teaching - lectures		Number hours
Lec1	Scope of the lecture, course completion requirements, literature. The role of the study of circumstances and trends of the spatial development of the commune in city development.	2
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Lec11	Elements of Urban Design	2
Lec12	Interpretation of planning guidelines in the land-use plan.	2
Lec13	Design of public space in cities - overview of selected examples.	2
Lec14	Problems of contemporary cities.	2
Lec15	Relations of architectural structures with surrounding urbanized space.	2
	Total hours	**30**

Mode of teaching - project		Number hours
Pr1	Overview of the scope of the project, course completion requirements, literature. Handing out of output materials for the project.	3
Pr2	PRESENTATIONS Overview of aggregate determinants in the form of presentation: - external factors related to location and communication; - natural and cultural circumstances; - internal conditions (guidelines from the study and the adjacent master plans)	3
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Pr11	3RD PRESENTATION OF PROJECTS. The urban concept of a selected area – 1:1000/1:500 scale	3
Pr12	CONSULTATIONS - Design of selected public space – projection at a scale of 1:1000/1:500	3
Pr13	CONSULTATIONS - Design of selected public space – sections	3
Pr14	CONSULTATIONS - Design of selected public space – visualizations	3
Pr15	Presentation and submission of final projects. Credit	3
	Total hours	**45**

TEACHING TOOLS	
5.	Lecture with multimedia presentation
6.	Individual project consultations with the instructor.
7.	In-class assignments on a given topic.
8.	Own work - preparation of the project for presentation and submission.
6.	Individual work – study and preparation for the final examination.

ASSESSMENT OF ACHIEVEMENT OF LEARNING OUTCOMES

Lecture

Assessment (F – formative (during the semester), S – summative (at the end of semester)	Number of learning outcome	Method of assessing the achievement of the learning outcome
P	PEK_W01 ÷ PEK_W06 PEK_U01 ÷ PEK_U09 PEK_K01 ÷ PEK_K05	Written exam

Project

Assessment (F – formative (during the semester), S – summative (at the end of semester)	Number of learning outcome	Method of assessing the achievement of the learning outcome
F1	PEK_U01 ÷ PEK_U4	Presentation of project.
F2	PEK_U05 ÷ PEK_U7	Presentation of project.
F3	PEK_U08 ÷ PEK_U09	Presentation of project.
F4		project
P =F1x0,2+F2x0,2+F3x0,2+F4x0,4		

BASIC AND ADDITIONAL LITERATURE

BASIC LITERATURE

11. Chmielewski Jan Maciej, Teoria urbanistyki w projektowaniu i planowaniu miast, Oficyna Wydawnicza Politechniki Warszawskiej, Warszawa 2001;
12. Chmielewski Jan Maciej, Więcławowicz G.(red.) Studium uwarunkowań i kierunków zagospodarowania przestrzennego, a miejscowe plany zagospodarowania przestrzennego, Komitet Przestrzennego Zagospodarowania Kraju PAN, Warszawa 2010;
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20. Ustawa z dnia 21 marca 1985 r. o drogach publicznych (Dz.U. 1994 nr 89 poz. 414 z późn.zm.);
21. Korzeniewski W., Parkingi i garaże dla samochodów osobowych, COIB, Warszawa 1997;
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23. Rozporządzenie Ministra Infrastruktury z dnia 12 kwietnia 2002 r. w sprawie warunków technicznych, jakim powinny odpowiadać budynki i ich usytuowanie. (Dz.U. z 2002 Nr 75 poz. 690 z późn.zm.);
24. Rozporządzenie Ministra Transportu i Gospodarki Morskiej z dnia 2 marca 1999 r. w sprawie warunków technicznych, jakim powinny odpowiadać drogi publiczne i ich usytuowanie (Dz.U. 1999 nr 43 poz. 430).

COURSE ADVISOR (NAME, SURNAME, E-MAIL)

Robert Masztalski PhD, robert.masztalski@pwr.wroc.pl

EQUIVALENCY MATRIX OF LEARNING OUTCOMES FOR COURSE
URBAN DESIGN - TRANSFORMATIONS OF URBAN STRUCTURES
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Course learning outcome	Relation of course outcome with learning outcomes formulated for the major	Course objectives	Curriculum content	Number of teaching tool
PEK_W01÷ PEK_W06	K2AiU_W01, K2AiU_W02, K2AiU_W03, K2AiU_W06, K2AiU_W07	C1÷ 3	Lec1÷ Lec15	1÷6
PEK_U01÷ PEK_U08	K2AiU_U04, K2AiU_U04, K2AiU_U07, K2AiU_U08	C1÷ 3	Pr.1÷ Pr15	1÷ 6
PEK_K01÷ PEK_K05	K2AiU_K02, K2AiU_K03	C1÷ 3	Lec.÷Lec15 Pr1÷Pr15	1÷6

FACULTY OF ARCHITECTURE

COURSE SYLLABUS
HISTORY OF CULTURE AND ART

Course title in English History of Culture and Art
Academic major: **ARCHITECTURE AND URBAN PLANNING**
Specialization: Architecture
Study cycle and study mode: Second cycle, full-time / part-time
Course type:obligatory
Course code AUA 005047W
Group of courses No

	Lecture	Tutorial	Lab	Project	Seminar
Number of contact hours	30				
Number of student workload hours	60				
Grading policy	pass with grade				
Mark (X) for final course in a group of courses					
ECTS points:	**2**				
including ECTS points for practical hours (P)					
including ECTS points for contact hours (CH)	2				

PREREQUISITES RELATING TO KNOWLEDGE, SKILLS AND OTHER COMPETENCIES

None

COURSE OBJECTIVES

C1 To introduce students to selected issues of art history from the Middle Ages up to contemporary times.

C2 To present the most important art movements in the 20th century.

C3 To present the works of chosen contemporary artists.

C4 To emphasize the influence of political and social factors on art.

C5 To underline the ideological content of works of art and methods of interpretation.

COURSE LEARNING OUTCOMES

Related to knowledge:

PEK_W01 Demonstrate systematic knowledge of selected aspects of the history of art (with particular emphasis on the art of the twentieth century).

PEK_W02 demonstrate the knowledge necessary to understand the changes taking place in culture and art of the twentieth century, and their mutual relations. Demonstrate knowledge that helps to notice the impact of policy and economic and social relations on artistic activities.

PEK_W02 - Demonstrate knowledge of work of selected artists in the 20th century.

Related to skills:

PEK_U01 Demonstrate ability to formulate an opinion on the artistic movements of the first half of the twentieth century

PEK_U02 Analyze the iconography of a work of art.

PEK_U03 Apply knowledge of science of art in the design process.

Related to social competencies:

PEK_K01 Demonstrate awareness of the artistic values of a work of art and social dimension of artistic activities of man

CURRICULUM CONTENT		
Mode of teaching - lectures		**Number hours**
Lec1	Selected aspects of art of the Middle Ages	2
Lec2	Dutch painting	2
Lec3	Cast iron and its use (from architecture to jewelry)	2
Lec4	Wroclaw Academy of Arts and Hans Poelzig	2
Lec5	Activity of Bauhaus.	2
Lec6	Young Polish Art	2
Lec7	20th century art	2
Lec8	Art-Deco	2
Lec9	Polish poster	2
Lec10	Art of individuality (Christo, Gottfried Helnwein)	2
Lec11	Architecture of the 3rd Reich	2
Lec12	Art of the 3rd Reich	2
Lec13	Art of the 3rd Reich in current Polish areas	2
Lec14	Soviet Art and Architecture	2
Lec15	Lecture credit.	2
	Total hours	30

TEACHING TOOLS

N1. Problem solving lecture with multimedia presentation.

N2. Case studies – discussion of selected works of art

ASSESSMENT OF ACHIEVEMENT OF LEARNING OUTCOMES

Assessment (F – formative (during the semester), S – summative (at the end of semester)	Number of learning outcome	Method of assessing the achievement of learning outcome

F1	PEK_W01, PEK_W02, PEK_W03	class participation assessment
F2	PEK_U01, PEK_U02	assessment of written work
P=0.5 (F1+F2)		

BASIC AND ADDITIONAL LITERATURE

BASIC LITERATURE:

[1] *100 lat polskiej sztuki plakatu*, Kraków 1993;
[2] Arenhövel Willmuth, *Eisen statt Gold*, Berlin 1982;
[3] *Art Deco w Polsce*, katalog wystawy, Kraków 1993;
[4] *Deutsche Kunst im 20. Jahrhundert. Malerei und Plastik 1905-1985*, München 1986;
[5] Dobesz Janusz L., *Wrocławska architektura spod znaku swastyki na tle budownictwa III Rzeszy*, wyd. II, Wrocław 2005;
[6] Droste Magdalena, *Bauhaus 1919-1933*, Berlin 1991;
[7] *Hans Poelzig we Wrocławiu. Architektura i sztuka 1900-1916*, red. J. Ilkosz, B. Störtkuhl, Wrocław 2000;
[8] Helnwein Gottfried, *Die Katasrtophe*, Zürich 1985;
[9] Krakowski Piotr, *Sztuka III Rzeszy*, Wiedeń-Kraków 1994;
[10] *Kunst und Macht im Europa der Diktatoren 1930 bis 1945*, Londyn-Barcelona-Berlin 1996;
[11] Olszewski Andrzej K., *Dzieje sztuki polskiej 1890-1980*, Warszawa 1988;
[12] *Polski Plakat Filmowy. 100-lecie kina w Polsce*, Kraków 1996;
[13] *Sztuka kręgu „Sztuki". Towarzystwo Artystów Polskich „Sztuka" 1897-1950*, Kraków 1995;
[14] *Sztuka świata*, t. 1-10, Warszawa 1989-1996;
[15] Vaizey Marina, *Christo*, Nowy Jork 1990;

ADDITIONAL LITERATURE:

[1] *Das polnische Plakat*, katalog wystawy, Berlin 1980;
[2] *Eisen Gold und bunte steine*, Berlin 1984;
[3] Hintze Erwin, *Gleiwitzer Eisenkunstguss*, Breslau 1928;
[4] *Lauchhammer Bildguss*, Lauchhammer 1929;
[5] *Andrzej Pągowski*, katalog wystawy Galeria Zachęta, Warszawa 1989;
[6] Rasl Zdenek, *Dekorative Cast Ironwork*, Praga 1980;
[7] Schmidt Eva, *Der preußische Eisenkunstguss*, Berlin 1981;
[8] *Stationen der Moderne. Die bedeutenden Kunstaustellungen des 20. Jahrhunderts in Deutschland*, Berlin 1988;

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EQUIVALENCY MATRIX OF LEARNING OUTCOMES FOR COURSE
HISTORY OF CULTURE AND ART
WITH THE LEARNING OUTCOMES FOR ARCHITECTURE AND URBAN PLANNING MAJOR

Course learning outcome	Relation of course outcome with learning outcomes formulated for the major	Course objectives	Curriculum content	No. of teaching tool
PEK_W01 (knowledge)	K2AiU_W02	C1, C2	Lec1-Lec14	N1, N2
PEK_W02		C4		
PEK_W03		C3		
PEK_U01 (skills)		C1, C2, C5	Lec1-Lec14	N1, N2
PEK_U02		C5		
PEK_U03		C1-C5		
PEK_K01 (competencies)		C1, C3, C5	Lec1-Lec14	N1, N2

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FACULTY OF ARCHITECTURE

COURSE SYLLABUS

ARCHITECTURAL DESIGN 1 - COMMERCIAL ARCHITECTURE

Academic major: ARCHITECTURE AND URBAN PLANNING
Specialization: Architecture, Urban planning
Study cycle and study mode: Second cycle, full-time / part-time
Course type: obligatory
Kod przedmiotu AUA000003W, AUA000003P
Group of courses No

	Lecture	Tutorial	Lab	Project	Seminar
Number of contact hours	15			60	
Number of student workload hours	30			210	
Grading policy	Examination			pass with grade	
Mark (X) for final course in a group of courses					
ECTS points:	2			7	
including ECTS points for practical hours (P)				7	
including ECTS points for contact hours (CH)	1			3	

PREREQUISITES RELATING TO KNOWLEDGE, SKILLS AND OTHER COMPETENCIES

1. KNOWLEDGE: Students demonstrate knowledge of designing commercial buildings with a simple structure and form. Have a completed course in preliminary design and architectural design in an undergraduate program.
2. SKILLS: Students can independently solve simple design tasks. Use CAD computer aided design software and computer graphic programs to create presentations.

COURSE OBJECTIVES

C1 The objective of the course is to increase knowledge of commercial architecture.
C2 The course equips students with the skills in designing commercial buildings in different urban contexts.
C3 The objective of the course is to equip students with a creative approach to designing such structures and to searching for innovative solutions.

COURSE LEARNING OUTCOMES

Related to knowledge:

PEK_W01 demonstrate advanced knowledge of commercial architecture and its typology necessary to design structures with a complex function in an urban and historic context; demonstrate thorough knowledge of technical problems related to design and construction of such structures, including fire safety and the use of structures by people with disabilities.

Related to skills:

PEK_U01 Design complex (multi-purpose), large commercial facilities such as: multi-purpose commercial centers, exhibition centers (museums, exhibition complexes), cultural and entertainment centers (including auditorium, concert, theater, conference halls) sports and recreation complexes (including stadiums, sports halls, Aqua parks), research and teaching complexes of universities (including lecture halls, auditoriums), facilities serving public transport (including railway stations, bus stations, airports).

Perform analysis on: the link with the existing environment and the accessibility of the proposed facility (also for the disabled), functional and spatial relationships, and the used construction and materials solutions. Demonstrate skill in the preparation of architectural documentation for selected structures that meet the requirements of the applicable building code.

Related to social competencies:

PEK_K01 Demonstrate an awareness of the importance of professional etiquette, respecting the principles of professional ethics and respecting the diversity of opinions and cultures.

PEK_K02 Demonstrate awareness of the responsibility for their own work and readiness to follow the rules of teamwork and to take responsibility for tasks performed as a team.

PEK_K03 Demonstrate awareness of the social role of a technical university graduate, and in particular understand the need to formulate information and opinions and inform the society – e.g. through the mass media – about the achievements of architecture as well as other aspects of an architect's and urban planner's professional work; make an effort to spread such information and opinions in a way that is clear.

CURRICULUM CONTENT

Mode of teaching - lectures		**Number of hours**
Lec1	Legal basis for designing part 2 (including multi-level parking lots).	3
Lec2	Multifunctional commercial centers.	2
Lec3	Exhibition centers (including: museums, exhibition complexes).	2
Lec4	Cultural and entertainment centers (including: halls for events, concerts, theatre performances, conferences)	2
Lec5	Sports and recreation complexes (including stadiums, sports halls, water parks),	2
Lec6	Research and teaching complexes of universities (including lecture halls, auditoriums).	2
Lec7	Structures serving public transport (including railway stations, bus stations, airports).	2
	Total hours	**15**

Mode of teaching - project		**Number hours**
Pr1	Analysis of the urban and natural environment.	8

Pr2	- land use plan 1:500 scale,	8
Pr3	Presentation I, discussion.	4
Pr4	Work on the architectural concept, including: - conceptual views of all floors – 1:200 scale, -characteristic sections and elevations - 1:200, 1:100 scale - selected fragment of the structure – 1:100 scale, -perspective drawings and visualizations, - as a supplement: working model of the structure within the surroundings.	20
Pr5	Presentation 2, discussion	4
Pr6	Work on technical and material solutions and graphic presentation of the project: - perspective drawings, visualizations of the structure, with the interior, - architectural detail 1:50, 1:20, - propositions for materials and colors - as a supplement: model of the structure with technological-material solutions/multimedia presentation.	12
Pr7	Final 3rd presentation , discussion, assessment	4
	Total hours	**60**

TEACHING TOOLS
N1. Expository lecture N2. problem-solving lecture N3. multimedia presentation, N4. Presentation of project. N5. consultation N6. discussion

ASSESSMENT OF ACHIEVEMENT OF LEARNING OUTCOMES

Lecture

Assessment (F – formative (during the semester), S – summative (at the end of semester)	Number of learning outcome	Method of assessing the achievement of learning outcome
F1	PEK_W01	Examination - $\alpha_{1=}1$
$P = \alpha_1 F1$ where $\alpha_1=1$, $\Sigma \alpha = 1$		

Project

Assessment (F – formative (during the semester), S – summative (at the end of semester)	Number of learning outcome	Method of assessing the achievement of learning outcome
F1	PEK_U01	Assessment of the content quality of the project - $\alpha_{2=}0,8$
F2	PEK_K01 PEK_K03	Class participation assessment (min. 50% critiques, credit for all reviews) $\alpha_{3=}0,1$
F3	PEK_K02	Assessment of oral presentation $\alpha_{4=}0,1$
$P = \alpha_2 F1 + \alpha_3 F2 + \alpha_4 F3$ where $\alpha_2=0,8$, $\alpha_3=0,1$, $\alpha_{4=}0,1$ $\Sigma \alpha = 1$		

BASIC AND ADDITIONAL LITERATURE

BASIC LITERATURE:

[1] Błądek Z., *Hotele bez barier: przystosowanie do potrzeb osób niepełnosprawnych*, 2003.
[2] Błądek Z., *Hotele: programowanie, projektowanie, wyposażanie*, 2001.
[3] Cerver F., A., *The World of Contemporary Architecture*, Koenemann 2005.
[4] Edwards B., *Libraries and learning resource centers*, 2002.
[5] Izenour G.C., *Theater design,* 1996.
[6] Jodidio Ph., *Nowe formy: architektura lat dziewięćdziesiątych XX wieku"*, 1998.
[7] Jodidio Ph., *Architecture Now!*, Taschen (najnowsze wydania).
[8] Jodidio Ph., Public Architecture Now!, Taschen 2010.
[9] Koziński., *Projektowanie obiektów handlowych,* Warszawa 1973.
[10] Matthews G., *Museums and Art Galleries*, 1991.
[11] Popławski B., *Projektowanie szkół wyższych*, 1982
[12] Neufert E., *Podręcznik projektowania architektoniczno-budowlanego*, Warszawa 2011.
[13] *Rozporządzenie Ministra Infrastruktury z dnia 12 kwietnia 2002 r. w sprawie warunków technicznych, jakim powinny odpowiadać budynki i ich usytuowanie.* (Dz. U. nr 75, poz. 690; z późniejszymi zmianami).
[14] Omilanowska M., *Świątynie handlu. Warszawska architektura komercyjna doby wielkomiejskiej*, Warszawa 2004.
[15] Rattenbury K., Bevan R., Long K., Architects Today. Laurens King Publishing 2004.
[16] *Urządzenia sportowe, planowanie, projektowanie, użytkowanie*, praca zbiorowa pod redakcją R. Wirszyłło, 1982.
[17] Thompson G., *Planning and Design of Library Buildings*, 1991.

ADDITIONAL LITERATURE:

[1] Aktualne czasopisma architektoniczne polskie i zagraniczne np. *Architektura & Biznes*, *Architektura – Murator*
[2] Aktualne wydawnictwa tematyczne i dostępne wytyczne do projektowania poszczególnych typów obiektów.
[3] Ujma-Wąsowicz K., *Ergonomia w architekturze*, 2005

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EQUIVALENCY MATRIX OF LEARNING OUTCOMES FOR COURSE
ARCHITECTURAL DESIGN 1 - COMMERCIAL ARCHITECTURE
WITH THE LEARNING OUTCOMES FOR ARCHITECTURE AND URBAN PLANNING MAJOR

Course learning outcome	Relation of course outcome with learning outcomes formulated for the major	Course objectives	Curriculum content	No. of teaching tool
PEK_W01 (knowledge)	**K2AiU_W02** **K2AiU_W04**	C1	Lec1-Lec7	N1, N2, N3
PEK_U01 (skills)	**K2AIU_U04** **K2AiU_U05**	C2	Pr1-Pr7	N1, N2, N3, N5
PEK_K01 (competencies)	**K2AIU_K05**	C1, C2	Lec1-Lec7	N1, N2, N3
PEK_K02	**K2AIU_K02**	C1, C2	Pr1-Pr7	N6, N4
PEK_K03	**K2AIU_K04**	C1, C2	Lec1-Lec7	N1, N2, N3

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FACULTY OF ARCHITECTURE

COURSE SYLLABUS

CONSERVATION DESIGN 1 - CONSERVATION OF ARCHITECTURE

Academic major: Architecture and Urban Planning
Specialization: Architecture
Study cycle and study mode: Second cycle, full-time / part-time
Course type: obligatory
Course code AUA 000005W, AUA 000005W
Group of courses No

	Lecture	Tutorial	Lab	Project	Seminar
Number of contact hours	15			45	
Number of student workload hours	30			90	
Grading policy	pass with grade			pass with grade	
Mark (X) for final course in a group of courses					
ECTS points:	1			3	
including ECTS points for practical hours (P)				3	
including ECTS points for contact hours (CH)	1			1	

PREREQUISITES RELATING TO KNOWLEDGE, SKILLS AND OTHER COMPETENCIES

1. KNOWLEDGE
   Students must demonstrate knowledge of the subjects of the history of architecture, and knowledge of solving technical issues related to the design and construction of historic architectural structures.
2. SKILLS:
   Demonstrate skills in creating queries in archives and libraries and demonstrate skills in formulating inventory of architectural detail and historic woodwork of windows and doors.
3. COMPETENCIES:
   Identify constant values of historic architecture - independent of the era in which it was built

COURSE OBJECTIVES

C1 Reconstruction of the façade of a given historic structure based on outdoor analysis of detail , comparative and iconographic studies and creation fo conservation guidelines
C2 To define the appropriate relations between contemporary architecture and the historic context
C3 General knowledge of the history and conservation of architecture.

COURSE LEARNING OUTCOMES

Related to knowledge:

PEK_W01 Demonstrate systematic and theoretically grounded knowledge that allows preparation of design of façade of historic structures and its description.

PEK_W02 Demonstrate systematic and theoretically grounded knowledge that allows choosing new architectural form for the existing historic context.

Related to skills:

PEK_U01 Demonstrate skills in reconstructing architecture of a historic structure and its description.

PEK_U02 Choose new architectural form to match existing historic development

Related to social competencies:

PEK_K01 Demonstrate awareness of the consequences of social architectural and urban activities for the historic environment and the resulting professional responsibility.

PEK_K02 Identify relations and the meaning of cooperation with specialists in other areas of knowledge and coordination of such activities.

PEK_K03 Understand the necessity to apply methods of social dialogue in design work.

CURRICULUM CONTENT

Mode of teaching - lectures		Number hours
Lec1	*The most important conventions of the world cultural and natural heritage - UNESCO list* , prof. Ewa Łużyniecka	2
Lec2	Basic concepts and definitions relating to the protection of cultural heritage, dr Maciej Małachowicz	2
Lec3	*Conservation problems in professional practice. Research and reconstruction of texture and color* , dr hab. Wojciech Brzezowski.	2
Lec4	*Examples of preservation activities in Germany,* dr Andrzej Legendziewicz	2
Lec5	*The National Preservation Services. Problems of conservation and adaptation of architecture of the 19th and 20th century for the present - on selected examples* dr hab. Krystyna Kirschke	2
Lec6	dr hab. Marzanna Jagiełło – *Restoration of the historic greenery*	2
Lec7	*The urban dimension in the conservation and restoration of monuments,,* dr Paweł Szkoda	2
Lec8	Examination	1
	Total hours	15

Mode of teaching - project		Number hours
Pr1	Assignment and overview of topics of tasks within the project. Task one: reconstruction of façade of a given building based on iconography.	3
Pr2	Consultation and analysis of preliminary façade drawings. In-class work	6
Pr3-8	Consultation and critiques of projects on task one. In-class work	15
Pr9	Review of completed projects related to task one and handing out of second task-description of historic facade and conservation guidelines for the design of a modern facade. In-class work	3
Pr 10-12	Consultation and critiques of the second task and conceptual sketches of new facades based on them.	6

Pr13	Review of completed second task, and handing out of the third task-concept of a contemporary façade. In-class work	3
Pr14	Consultations and critiques of third assignment. In-class work	6
Pr15	Review of the completed third assignment and credit for the course. In-class work.	3
	Total hours	45

TEACHING TOOLS
N1. projector N2. laptop N3. monitor

ASSESSMENT OF ACHIEVEMENT OF LEARNING OUTCOMES

Lecture

Assessment (F – formative (during the semester), S – summative (at the end of semester)	Number of learning outcome	Method of assessing the achievement of learning outcome
F1	PEK_W01-PEK_W03; PEK_U01-PEK_U03; PEK_K01-PEK_K02;	Attendance
F2	PEK_W01-PEK_WO3; PEK_U01-PEK_U03; PEK_K01-PEK_K02;	Grade for examination
P - Average grade P= F1 (0,1) +F2(0,9)= 1		

Project

Assessment (F – formative (during the semester), S – summative (at the end of semester)	Number of learning outcome	Method of assessing the achievement of learning outcome
F1	PEK_W01-PEK_WO3; PEK_U01-PEK_U03; PEK_K01-PEK_K02;	Attendance
F2	PEK_W01-PEK_WO3; PEK_U01-PEK_U03; PEK_K01-PEK_K02;	Assessment of task one
F3	PEK_W01-PEK_WO3; PEK_U01-PEK_U03; PEK_K01-PEK_K02;	Assessment of taks 2
F4	PEK_W01-PEK_WO3; PEK_U01-PEK_U03; PEK_K01-PEK_K02;	Assessment of task 3

P - Average grade: P= F1(0,1)+F2(0,5) +F3(0,2)+F4(0,2)=1

BASIC AND ADDITIONAL LITERATURE

BASIC LITERATURE:

[1] *Adaptacja obiektów zabytkowych do współczesnych funkcji użytkowych*, red.B.Szmygin, Warszawa-Lublin 2009
[2] BURGERMEISTER L., *Die Kunstdenkmäler der Stadt Breslau*, Breslau 1930-1934.
[3] BRZEZOWSKI W., *Dom mieszkalny we Wrocławiu w okresie baroku,* Wrocław 2005.
[4] CZERNER O., *Rynek Wrocławski*, Wrocław 1976.
[5] CZERNER O., *Wrocław na dawnej rycinie*, Wrocław-Warszawa-Kraków,Gdańsk-Łódź 1989.
[6] *Dziedzictwo kulturowe fundamentem rozwoju cywilizacji*, Międzynarodowa Konferencja Konserwatorska (Materiały t.1-6), Kraków 2000.
[7] JAGIEŁŁO M., Sgrafitta na Śląsku1540-1650, Wrocław 2003.
[8]KADŁUCZKA A., *Problemy integracji architektury współczesnej z historycznym środowiskiem kulturowym*, Wydawnictwa Politechniki Krakowskiej, Kraków 1982.
[9] KIRSCHKE K., *Fasady wrocławskich obiektów komercyjnych z lat 1890—1930. Faktura – kolorystyka – dekoracja*, Wrocław 2005.
[10] KONWIARZ R., *Alt Schlesien*, Breslau 1906.
[11] LUTSCH H., *Verzeichnis der Kunstdemkmäler der Provinz Schlesien*, Breslau 1886-1903.
[12] MAŁACHOWICZ E., *Konserwacja i rewaloryzacja architektury w środowisku kulturowym,* Wrocław 2007.
[13]MAŁACHOWICZ E., *Ochrona środowiska kulturowego*, t.1 i 2, Warszawa 1988.
[14] MAŁACHOWICZ E., *Stare Miasto we Wrocławiu. Zniszczenia wojenne i odbudowa*, Wrocław 1985.
[15] MARZĘCKI W., *Ciągłość kulturowa w kształtowaniu przestrzeni miejskiej. Charakterystyka i metoda oceny jakości i zmienności tej przestrzeni*, Szczecin 2002.
[16] MĄCZEŃSKI Z., *Elementy i detale architektoniczne w rozwoju historycznym*, Warszawa 1956.
[17] *Odbudowa miast historycznych. Dokonania przeszłości. Potrzeby i możliwości współczesne. Wyzwania przyszłości*, red.M.Lubocka-Hoffmann , Elbląg 1998
[18] *Postęp i nowoczesność w konserwacji zabytków, problemy-perspektywy*, Lublin 2005
[19] Pr. zb., *Atlas Architektury Wrocławia*, t. 1 i 2, Wrocław
[20] Pr. zb., *Słownik terminów sztuk pięknych*, pod red. St. Kozakiewicza, Warszawa 1996 (wyd. III).
[21] *Raport o systemie ochrony dziedzictwa kulturowego w Polsce po roku 1989*, red. J. Purchla, Warszawa2000
[22] STEIN R., *Der Große Ring zu Breslau*, Breslau 1935.
[23] STEIN R., *Das Breslauer Bürgerhaus*, Breslau 1935.
[24] STEIN R., *Das Bürgerhaus in Schlesien*, Tübingen 1966.
[25] *System ochrony zabytków w Polsce - analiza, diagnoza, propozycje*, red. B.Szmygin, Lublin-Warszawa 2011
[26] *Wyjątkowa uniwersalna wartość a monitoring dóbr światowego dziedzictwa*, Warszawa 2011

ADDITIONAL LITERATURE:

[1] PORTFOLIOS: Palladio, Vitruwiusz, Vignola,
[2] HANDBOOKS Handbuch der Architektur
[3] Archival Photographs showing the appearance of the building of Wroclaw and Silesian towns before World War II: (including the Internet).
[4] Current architectural magazines showing current trends in the design of new architecture in historic surroundings.
[5] *Biuletyn informacyjny PKN ICOMOS*, www//icomos.poland

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EQUIVALENCY MATRIX OF LEARNING OUTCOMES FOR COURSE

CONSERVATION DESIGN 1 - CONSERVATION OF ARCHITECTURE

WITH THE LEARNING OUTCOMES FOR ARCHITECTURE AND URBAN PLANNING MAJOR AND CONCENTRATION IN ARCHITECTURE

Lecture

Course learning outcome	Relation of course outcome with learning outcomes formulated for the major	Course objectives***	Curriculum content***	No. of teaching tool***
PEK_W01 (knowledge)	S2AR_W01, S2AR_W03, S2AR_W04,	C2, C3	Lec1, Lec2,Wy,6,Lec7	N1-N3
PEK_W02	S2AR_W01, S2AR_W03, S2AR_W04,	C2	Lec4,Lec5,Lec3	N1-N3
PEK_U02	S2AR_U03	C2, C3	Lec1, Lec2,Wy,6,Lec7	N1-N3
PEK_K01	S2AR_K01, S2AR_K02	C2	Lec1, Lec2,Wy,4,Lec7	N1-N3
PEK_K02	S2AR_K01, S2AR_K02	C2	Lec1, Lec2,Wy,4,Lec7	N1-N3
PEK_K03	S2AR_K01, S2AR_K02	C2	Lec2,Wy,4,Lec7	N1-N3

Project

Course learning outcome	Relation of course outcome with learning outcomes formulated for the major	Course objectives	Curriculum content	No. teaching tool
PEK_W01 (knowledge)	S2AR_W01,S2AR_W04, S2AR_W03, S2AR_W08,	C2, C3	Pr1-Pr8	N1-N3
PEK_W02	S2AR_W04, S2AR_W08	C1, C2	Pr9-Pr15	N1-N3
PEK_U01 (skills)	S2AR_U01, S2AR_U03	C1,C2	Pr1-Pr12	N1-N3
PEK_U02	S2AR_U03, S2AR_U04	C2,C3	Pr13-Pr14	N1-N3
PEK_K01 (competencies)	S2AR_K01, S2AR_K02	C1,C2	Pr1-Pr15	N1-N3
PEK_K02	S2AR_K02	C1,C2	Pr1-Pr15	N1-N3
PEK_K03…	S2AR_K01	C2	Pr1-Pr15	N1-N3

FACULTY OF ARCHITECTURE

COURSE SYLLABUS

REVALUATION OF URBAN COMPLEXES

Academic major: ARCHITECTURE AND URBAN PLANNING
Specialization: Heritage Protection
Study cycle and study mode: second cycle, full-time
Course type: obligatory
Course code AUA 105707W/AUA105708P
Group of courses No

	Lecture	Tutorial	Lab	Project	Seminar
Number of contact hours	15			60	
Number of student workload hours	60			120	
Grading policy	Examination			pass with grade	
Mark (X) for final course in a group of courses					
ECTS points:	**2**			4	
including ECTS points for practical hours (P)				4	
including ECTS points for contact hours (CH)	1			2	

PREREQUISITES RELATING TO KNOWLEDGE, SKILLS AND OTHER COMPETENCIES

NONE

COURSE OBJECTIVES

C1 - To introduce students to the basic problems of regeneration of urban complexes built before 1945
C2 To present programs and processes of revitalization of urbanised areas in Poland.

C3 To develop skills in identifying problems in degraded housing developments and parts of cities with the dominant pre-war residential development.
C4: to acquaint students with the tools and methods of revitalization of housing developments
C5 To develop the ability to prepare historical and conservation documentation and determine on its basis the directions of structural transformations of selected residential complex.

C6 To develop skills in developing local land-use plan of a selected urban area and use it to create the concept of a residential complex.

COURSE LEARNING OUTCOMES

Related to knowledge:

PEK_W01 Identify basic legal regulations pertaining to revalorization of cities.
PEK_W02 Demonstrate basic knowledge of the principles of creating local regeneration programs.
PEK_W03 Demonstrate knowledge of the history of the origin, development, and contemporary problems of selected pre-war housing estates Wroclaw.
PEK_W04 Identify principles of formulating local zoning plans for advanced urban complexes

Related to skills:

PEK_U01 Identify negative contemporary phenomena in areas of urbanized complexes
PEK_U02 Demonstrate the ability to perform interdisciplinary analysis of internal and external determinants of a complex with particular emphasis on the historical valorization; create conservation objectives.
PEK_U03 Develop the spatial structure of urban complexes with consideration of the functional program, communication services, spatial composition, connections with commercial centers and greenery.
PEK_U04 Develop local land-use plan for urban areas with significant historic values.
PEK_U05 Create a concept of a residential complex using the provisions of the local development plan.

Related to social competencies:

PEK_K01 Demonstrate awareness of the social dimension of architect's work
PEK_K02 Understand the complex nature of the process of urban renewal and the need for integrated actions affecting various aspects of life.
PEK_K03 Demonstrate readiness to cooperate in interdisciplinary teams developing and implementing regeneration projects of urban complexes.

CURRICULUM CONTENT

Mode of teaching - lectures		**Number of hours**
Lec1	Concepts, definitions, introduction to the issue of revitalization of urban areas, legal considerations in the processes of revitalization of cities in Poland.	1
Lec2, 3	Local Revitalization Program - principles of construction; Local Revitalization Program of Wroclaw - intent and implementation.	2
Lec4-9	Pre-war housing estates in Wroclaw - creation, development, present condition, problems of regeneration (case studies).	6
Lec10-12	Problems of restoring "small-town areas of development" in Wroclaw (Leśnica, Psie Field, Brochów)	3
Lec13, 14	Revitalization practice of residential areas in Poland and Europe	2
Lec15	Tools for the implementation of revaluation processes of urban areas - land use plans, decisions pertaining to conditions of development.	1
	Total hours	**15**

Mode of teaching - project		**Number of hours**
Pr1	Introduction to the project, choice of topics. overview of the schedule of classes and stages of work, principles of formulation of project	4
Pr2, 3	Analyses of chosen housing estates - urban planning inventory (with photographic documentation), communication connections, greenery, composition of the housing estate, structure of development and its valorization (1: 5000 scale)	8
Pr4, 5	Preparation of conservation objectives (1:2000 scale) Presentation of first stage of the project.	8

Pr6, 7	The directions of development of the selected area - diagrams: Composite, road communication and hiking, parks and recreational facilities; functional program, arrangement diagram service centers (scale 1:5000)	8
Pr8-11	Preparation of the concept of the land-use plan for the selected area with elements of planning arrangements: functions of areas, lines dividing the areas of functional units, frontage, public pathways, compositional elements, parameters and indicators pertaining to the development of areas and structures (1:2000 scale) Presentation of 2nd stage of the project	16
Pr12-14	Development of the urban planning concept of s selected fragment of housing development (projections, sections), 1:1000 / 1:500 scale	12
Pr15	Presentation of the entire study and submission	4
	Total hours	**60**

TEACHING TOOLS
N1. multimedia presentations N2. Case studies N3. Problem-solving discussions N4. Individual consultations of projects.

ASSESSMENT OF ACHIEVEMENT OF LEARNING OUTCOMES

LECTURE

Assessment (F – formative (during the semester), S – summative (at the end of semester)	Number of learning outcome	Method of assessing the achievement of learning outcome
P	PEK_W01-W04	exam

PROJECT

Assessment (F – formative (during the semester), S – summative (at the end of semester)	Number of learning outcome	Method of assessing the achievement of learning outcome
F1	PEK_U01, PEK_U02	assessment of first stage of the project
F2	PEK_U03, PEK_U04	assessment of first stage of the project
F3	PEK_U01-05	assessment of the entire project study
P=0.5(F1+F2)+F3		

BASIC AND ADDITIONAL LITERATURE

BASIC LITERATURE:

[16] Aspekty prawne i organizacyjne zarządzania rewitalizacją, red. W. Rydzik, Kraków 2009;
[17] Chmielewski J.M., Teoria urbanistyki w projektowaniu i planowaniu miast, Warszawa 2001;
[18] Kopeć M., Rewitalizacja miejskich obszarów zdegradowanych, Warszawa 2010;
[19] Lorens P., Rewitalizacja miast: planowanie i realizacja, Gdańsk 2010;
[20] Problemy rewitalizacji w gospodarce przestrzennej XXI w., red W. Czarnecki, Białystok 2006;
[21] Studium uwarunkowań i kierunków zagospodarowania przestrzennego, a miejscowe plany zagospodarowania przestrzennego, red. J.M. Chmielewski, G. Więcławowicz, Warszawa 2010;
[22] Wybrane zagadnienia rewitalizacji miast, red. P. Lorens, Gdańsk 2009;
[23] Ziobrowski Z., Odnowa miast: rewitalizacja, rehabilitacja, restrukturyzacja; Kraków 2000.

ADDITIONAL LITERATURE:

[9] Gehl J., Życie między budynkami. Użytkowanie przestrzeni publicznych, Kraków 2009;
[10] Demograficzne i społeczne uwarunkowania rewitalizacji miast w Polsce, red. A. Zborowski, Kraków 2009;
[11] Przestrzenne aspekty rewitalizacji – śródmieścia, blokowiska, tereny poprzemysłowe, pokolejowe i powojskowe, red. W. Jarczewski, Kraków 2009;
[12] Rewitalizacja miast w Niemczech, red. M. Bryx, A. Jadach-Sepioło, Kraków 2009;
[13] Rewitalizacja miast w Wielkiej Brytanii, red. R. Guzik, Kraków 2009;
[14] Rozporządzenie Ministra Infrastruktury z dnia 26 sierpnia 2003 r. w sprawie wymaganego zakresu projektu miejscowego planu zagospodarowania przestrzennego (Dz. U. nr 164, poz. 1587);
[15] Rozporządzenie Ministra Infrastruktury z dnia 12 kwietnia 2002 w sprawie warunków technicznych, jakim powinny odpowiadać budynki i ich usytuowanie (Dz. U. nr 75, poz. 690 z późn. zm.);
[16] Rozporządzenie Ministra Transportu i Gospodarki Morskiej z dnia 2 marca 1999 r. w sprawie warunków technicznych, jakim powinny odpowiadać drogi publiczne i ich usytuowanie (Dz. U. nr 43, poz. 430);
[17] Skalski K., Rewitalizacja we Francji – zarządzanie przekształceniami obszarów kryzysowych w miastach, Kraków 2009.

COURSE ADVISOR (NAME, SURNAME, E-MAIL)

Tomaszewicz Agnieszka, agnieszka.tomaszewicz@pwr.wroc.pl

EQUIVALENCY MATRIX OF LEARNING OUTCOMES FOR COURSE
REVALUATION OF URBAN COMPLEXES
WITH THE LEARNING OUTCOMES FOR ARCHITECTURE AND URBAN PLANNING MAJOR
AND SPECIALIZATION HERITAGE PROTECTION

Course learning outcome	Relation of course outcome with learning outcomes formulated for the major and concentration	Course objectives	Curriculum content	No. of teaching tool
PEK_W01 PEK_W02 KNOWLEDGE	K2AiU_W05, S2OZ_W07	C1, C2, C4	Lec1-3, Lec13, 14	N1, N2
PEK_W03	K2AiU_W05, S2OZ_W02	C1, C3	Lec4-12	
PEK_W04	K2AiU_W03, K2AiU_W07, S2OZ_W07, S2OZ_W08	C4, C6	Lec15	
PEK_U01 (skills)	S2OZ_U07	C1, C3	Lec2, 3, Pr2, 3	N2, N3, N4
PEK_U02	K2AiU_U06	C3, C5	Pr2-5	N3, N4
PEK_U03	K2AiU_U04	C5	Pr6, 7	
PEK_U04	K2AiU_U07, K2AiU_U08	C6	Pr8-11	
PEK_U05	K2AiU_U07, S2OZ_U02	C6	Pr12-14	
PEK_K01 (competencies)	K2AiU_K03	C1, C3, C5, C6	Lec1-15	N1-4
PEK_K02	S2OZ_K01	C1-C5		
PEK_K03	K2AiU_K02	C4-C6	Pr2-14	

Faculty of Architecture Zał. nr 4 do ZW 33/2012

COURSE SYLLABUS

Course title in Polish REPAIRING, REINFORCING AND CONSERVATION OF STRUCTURES HISTORIC 1

Course title in English: Repair, strengthening and conservation of historic structures 1

Academic major (if applicable): ARCHITECTURE AND URBAN PLANNING

Specialization (if applicable): Heritage Protection

Course level and study mode: second cycle, full-time

Course type: obligatory

Course code: AUA 000505W

Group of courses: NO

	Lecture	Tutorial	Lab	Project	Seminar
Number of hours number of contact hours (IN-CLASS)	30				
Number of hours of total student workload hours WORKLOAD	60				
Grading policy	pass with grade				
Mark (X) for final course in a group of courses					
ECTS points:	**2**				
including ECTS points for practical hours (P)					
including ECTS points for demanding contact hours (C)	**2**				

PREREQUISITES RELATING TO KNOWLEDGE, SKILLS AND OTHER COMPETENCIES

1. Demonstrate knowledge of general mechanics, strength of materials and general rules of creating building structures.
2. Demonstrate knowledge of the technologies of erecting buildings with a traditional construction, including historical objects.
3. Demonstrate knowledge of building materials.

COURSE OBJECTIVES

C1. Knowledge of methods and technologies of reinforcing and repairing individual structural elements of structures in general.
C2. Knowledge of diagnostics of historic structures
C3. Knowledge of the characteristics of the reinforcement materials currently used, including composite materials.
C4. Knowledge of the basic rules of conservation of historic buildings.

COURSE LEARNING OUTCOMES	
Related to knowledge:	
PEK_W01	Demonstrate broad and in-depth knowledge of selected areas of chemistry and physics of buildings which is necessary to understand engineering and conservation problems. Understand the processes occurring in historic and contemporary construction and conservation materials as well as their structure.
PEK_W02	Demonstrate theoretically grounded detailed knowledge of reconstructing, reinforcing and preserving historic architectural sites, historic wooden, brick and stone structures, accepted in terms of the preservation doctrine.
Related to skills:	
PEK_U01	Identify the basic threats and physical factors and chemicals causing the decomposition of materials found in historic sites and define technical and technological methods of their protection and conservation; verify the use of conservation materials and chemical preparations.
PEK_U02	Formulate and apply basic preventive conservation.
Related to social competencies:	
PEK_K01	Understand the need to popularize pro-conservation attitudes in society, focused on the protection of the cultural and architectural heritage and landscape and promotion of their high social usefulness.
PEK_K02	Demonstrate awareness of the role of cultural and architectural heritage for the civilization and identity of societies.

CURRICULUM CONTENT		
Mode of teaching - lectures		**Number of hours**
Lec1	Presentation to the scope of lectures and course completion requirements. General analysis of the problems.	2
Lec2	Specificity of structural interventions in the area of conservation. Analysis of conservation doctrines.	2
Lec3	Wooden structures. Roof trusses. Causes of damage. General principles of implementing structural interventions.	2
Lec4	Wooden structures. Roof trusses. Examples of objects before and after structural intervention.	2
Lec5	Overview of traditional and modern methods of reinforcing historic timber structures.	2
Lec6	Characteristics of composite reinforcement materials (wire, fiber tape, mats, etc.)	2
Lec7	Examples of applications of composite materials in reinforcing of historic timber structures.	2
Lec8	Methods of diagnosing the causes of the destruction of historic buildings.	2
Lec9	Repairing and reinforcing of timber ceilings. Classification of methods and general principles of principles of structural intervention.	2
Lec10	Repairing and reinforcing of timber ceilings. Examples of objects before and after structural intervention.	2
Lec11	Repairing and reinforcing of foundations. Classification of methods and general principles of principles of structural intervention.	2
Lec12	Repairing and reinforcing of foundations. Examples of objects before and after structural intervention.	2

Lec13	Repairing and reinforcing of stone walls. Classification of methods and general principles of principles of structural intervention.	2
Lec14	Repairing and reinforcing of stone walls. Examples of objects before and after structural intervention.	2
Lec15	Test	2
	Total hours	**30**

TEACHING TOOLS
N1. Lecture: multimedia presentation lecture contents.

ASSESSMENT OF ACHIEVEMENT OF LEARNING OUTCOMES		
Grades (F – formative (during the semester), P – summative (at the end of semester)	Number of learning outcome	Method of assessing the achievement of learning outcome
P (lecture)	PEK_W01 PEK_W02 PEK_U01 PEK_U02 PEK_K01 PEK_K02	Test

BASIC AND ADDITIONAL LITERATURE

BASIC LITERATURE:

[24] Masłowski E., Spiżewska D.,: „Wzmacnianie konstrukcji budowlanych", Arkady, Warszawa 2000

[25] Mitzel A., Stachurski W., Suwalski J.,: „Awarie konstrukcji betonowych i murowych", Arkady Warszawa 1973

[26] Jasieńko J.: „Połączenia klejowe i inżynierskie w naprawie, konserwacji i wzmacnianiu zabytkowych konstrukcji drewnianych", DWE, Wrocław 2003

[27] Jasieńko J., Łodygowski T., Rapp P,: „Naprawa, konserwacja i wzmacnianie wybranych, zabytkowych konstrukcji ceglanych", Dolnośląskie Wydawnictwo Edukacyjne, 2006

[28] Małyszko L., Orłowicz R.: „Konstrukcje murowe. Zarysowania i naprawy", Wydawnictwo Uniwersytetu Warmińsko – Mazurskiego, Olsztyn 2000.

ADDITIONAL LITERATURE:

[18] Materiały konferencyjne: „Awarie budowlane", Szczecin od 1996

[19] **Materiały konferencji: „Warsztat pracy projektanta konstrukcji", od 1998**

[20] **Materiały konferencji REMO: „Problemy remontowe w budownictwie ogólnych i obiektach zabytkowych" od 1996**

[21] Materiały konferencji REW-INŻ. od 1996

[22] Materiały konferencji „Structural Analysis of Historical Constructions", od 2004

COURSE ADVISOR (NAME, SURNAME, DEPARTMENTE-MAIL)

professor Jerzy Jasieńko, Department Building Materials, Wooden and Historic Structures, jerzy.jasienko@pwr.wroc.pl

TEACHING TEAM MEMBERS (NAME, SURNAME, E-MAIL)

1. **Profesor Jerzy Jasieńko, jerzy.jasienko@pwr.wroc.pl,**
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3. **Witold Misztal MSc, witold.misztal@pwr.wroc.pl**

4. Krzysztof Raszczuk MSc, krzysztof.raszczuk@pwr.wroc.pl

EQUIVALENCY MATRIX OF LEARNING OUTCOMES FOR COURSE
REPAIRING, REINFORCING AND CONSERVATION OF HISTORICAL STRUCTURES 1
WITH THE LEARNING OUTCOMES FOR ARCHITECTURE AND URBAN PLANNING MAJOR
SPECIALIZING IN HERITAGE PROTECTION

Course learning outcome	Relation of course outcome with learning outcomes formulated for the major in studies and specialization	Course objectives	Curriculum content	No. teaching tool
KNOWLEDGE				
PEK_W01	S2OZ_W10	C1,C2,C3	Lec1-Lec14	N1
PEK_W02	S2OZ_W11	C1,C2,C3	Lec1-Lec14	N1
SKILLS:				
PEK_U01	S2OZ_U09	C1,C2,C3	Lec1-Lec14	N1
PEK_U02	S2OZ_U10	C1,C2,C3	Lec1-Lec14	N1
COMPETENCIES:				
PEK_K01	S2OZ_K02	C4	Lec1-Lec2, Lec15	N1
PEK_K02	S2OZ_ K02	C4	Lec1-Lec2, Lec15	N1

FACULTY OF ARCHITECTURE

COURSE SYLLABUS

ARCHITECTURAL AND CONSERVATION INVENTORY

Academic major: ARCHITECTURE AND URBAN PLANNING
Specialization: HERITAGE PROTECTION
Study cycle and study mode: second cycle, full-time
Course type: obligatory
Course code: AUA 105677S
Group of courses No

	Lecture	Tutorial	Lab	Project	Seminar
Total number of contact hours					30
Number of student workload hours					60
Grading policy					pass with grade
Mark (X) for final course in a group of courses					
ECTS points:					2
Including ECTS points for contact hours (CH)					2

PREREQUISITES RELATING TO KNOWLEDGE, SKILLS AND OTHER COMPETENCIES

1. KNOWLEDGE Knowledge of designing and composition problems. Knowledge of history of general architecture.
2. SKILLS: Use appropriate techniques of creating images that aid architectural design, compile an architectural inventory in the field.
3. OTHER COMPETENCIES: Awareness of artistic, cultural and historic values of heritage sites.

COURSE OBJECTIVES

C1 - To introduce students to the causes of damage of heritage sites
C2 - To present problems related to the structural damage of a structure.
C3 - To introduce students to development prospects of preventing destruction of heritage.
C4 - To prepare students to the implementation of the conservation program and project.
C5 - To develops skills in designing and presenting damage in historic structures.

COURSE LEARNING OUTCOMES

Related to knowledge:

PEK_W01 – Demonstrate broad and in-depth knowledge of selected areas of chemistry and physics of buildings which is necessary to understand engineering and conservation problems: Understand the processes occurring in historic and contemporary construction and conservation materials as well as their structure.
PEK_W02 - Demonstrate knowledge of the causes of damage to heritage.
PEK_W03 - Demonstrate knowledge of the problems related to the structural damage of a structure.

Related to skills:

PEK_U01 - Compile an architectural and conservation inventory and formulate conservation guidelines for historic buildings.
PEK_U02: Formulate conservation guidelines for historic buildings.
PEK_U03: Based on the analysis of documentation and the form of architectural detail and ornament define their style and construction.
PEK_U04: Preserve or reconstruct the form of architectural structure.

Related to social competencies:

PEK_K01: Demonstrate awareness of the conservation constraints of architecture and the consequences resulting from the cultural and historical context.

PEK_K02: Demonstrate awareness of the role of cultural and architectural heritage for the civilization and identity of societies.

CURRICULUM CONTENT		
Mode of teaching - seminar		**Number of hours**
La 1	Scope of the study, course completion requirements, literature. Assignment of individual design topics to students.	2
La 2	Overview and summary of methods of creating an architectural and conservation inventory.	2
La 3	Overview and summary of the problems associated with projects. Graphical presentation of damage, layers and losses.	2
La 4	Overview and summary of the problems associated with projects. Students' individual project work.	2
La 5	Overview and summary of the problems associated with projects. Students' individual project work.	2
La 6	Overview and summary of the problems associated with projects. Historic sources, iconography and archival materials.	2
La 7	Overview and summary of the problems associated with projects. Students' individual project work.	2
La 8	Presentation and submission of partial projects.	2
La 9 La 10	Overview and summary of the problems associated with projects. Students' individual project work.	4
La 11	Overview and summary of the problems associated with projects. Historic sources, iconography and archival materials.	2
La 12 La 13 La 14	Overview and summary of the problems associated with projects. Students' individual project work.	6
La 15	Presentation and submission of final projects. Credit	2
	Total hours	30

TEACHING TOOLS
N1. multimedia presentation, N2. Consultations, presentation of project. N3. Expository lecture with elements of problem-solving lecture.

ASSESSMENT OF ACHIEVEMENT OF LEARNING OUTCOMES

Assessment (F – formative (during the semester), S – summative (at the end of semester)	Number of learning outcome	Method of assessing the achievement of learning outcome
F1	PEK_W03 PEK_U01-03 PEK_K02	Assessment for the presentation of problems covered by the project - α_1= 0.2
F2	PEK_W01-02 PEK_W04 PEK_U02 PEK_U04 PEK_K01-02	Assessment of the content of the project. (La15) α_1=0,6
F3	PEK_W03 PEK_U01-03 PEK_K02	Assessment of the oral presentation - participation during classes - α_2=0,2

$P = \alpha_1 F1 + \alpha_2 F2 + \alpha_3 F3,$ where $\alpha_1=0,2$; $\alpha_2=06$; $\alpha_3=02$; $\Sigma \alpha = 1$

BASIC AND ADDITIONAL LITERATURE

BASIC LITERATURE:

[29] M. Brykowska - Metody pomiarów i badań zabytków architektury. Warszawa 2003.
[30] J. Jasiński, A. Klimek, Z. Matkowski, K. Schabowicz - Problemy remontowe w budownictwie ogólnym i obiektach zabytkowych. Wrocław 2002.
[31] W. Domasłowski - Profilaktyczna konserwacja kamiennych obiektów zabytkowych. Toruń 1993.
[32] edited by. W. Domasłowski - Zabytki kamienne i metalowe, ich niszczenie i konserwacja profilaktyczna. Toruń 2011.
[33] Edited by. M. Kamiński, J. Jasiczak, W. Buczkowski, T. Błaszczyński - Współczesne metody naprawcze w obiektach budowlanych. Wrocław 2009.
[34] A. Krajewski, P. Witomski - Ochrona drewna. Warszawa 2003.

ADDITIONAL LITERATURE:

[23] Materiały po konferencji Toruń 23 - 24 października 1998 - Od badań do konserwacji. Toruń 1998.
[24] Edited by. B. Szmygin - Trwała ruina II. Problemy utrzymania i adaptacji. Ochrona, konserwacja i adaptacja zabytkowych murów. Lublin - Warszawa 2010.
[25] W. Domasłowski - Spoinowanie murów ceglanych. Toruń 1998.
[26] P. Kozakiewicz, M. Matejak - Klimat a drewno zabytkowe. Warszawa 2006.
[27] Monument. Studia i materiały krajowego ośrodka badań i dokumentacji zabytków. Warszawa 2004.

COURSE INSTRUCTOR (NAME, SURNAME, E-MAIL)

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Aleksandra Brzozowska MSc, aleksandra.brzozowska@pwr.wroc.pl

EQUIVALENCY MATRIX OF LEARNING OUTCOMES FOR COURSE
ARCHITECTURAL AND CONSERVATION INVENTORY
WITH THE LEARNING OUTCOMES FOR ARCHITECTURE AND URBAN PLANNING MAJOR
SPECIALIZING IN HERITAGE PROTECTION

Course learning outcome	Relation of course outcome with learning outcomes formulated for the major and concentration	Course objectives	Curriculum content	No. of teaching tool
PEK_W01 (knowledge)	S2OZ_W010	C1, C2, C3	La3- La14	N1, N2, N3
PEK_W02	S2OZ_W010	C1, C2, C3	La3	N1, N3
PEK_W03	S2OZ_W11	C1, C2, C3	La3- La14	N1, N2,N3
PEK_W04	K2AiU_W05	C4	La3- La14	N1, N2
PEK_U01 (skills)	S2OZ_U07 S2OZ_U08 S2OZ_U11	C1, C2, C3	La1- La15	N1, N2,N3
PEK_U02	S2OZ_U07	C1, C2, C3	La1- La15	N1, N2
PEK_U03	S2OZ_U11	C1, C2	La3- La15	N1, N2
PEK_U04	S2OZ_U11	C1, C2, C3	La3- La15	N1, N2
PEK_K01 (competencies)	S2OZ_K01	C3	La3- La15	N1, N2
PEK_K02	S2OZ_K003	C1, C2	La3- La15	N1, N2

Zał. nr 4 do ZW 33/2012

FACULTY OF ARCHITECTURE

COURSE SYLLABUS

Modern constructions

Course title in English Modern constructions
Academic major (if applicable): Architecture and Urban Planning
Specialization: Heritage Protection
Study cycle and study mode: **second cycle, full-time**
Course type: obligatory
Course code AUA105714Ws
Group of courses YES

	Lecture	Tutorial	Lab	Project	Seminar
Number of contact hours	15				15
Number of student workload hours	60				
Grading policy	pass with grade				
Mark (X) for final course in a group of courses	X				
ECTS points:	**2**				
including ECTS points for practical hours (P)					
including ECTS points for contact hours (CH)	2				

PREREQUISITES RELATING TO KNOWLEDGE, SKILLS AND OTHER COMPETENCIES

COURSE OBJECTIVES

C1 - To introduce students to selected structural systems that create architecture and form.

C2 - To acquaint students with the principles of choosing modern structural systems

COURSE LEARNING OUTCOMES

Related to knowledge:

PEK_W01 Define and explain the principles of designing contemporary building structures.

Related to skills:

PEK_U02 – Use selected contemporary structural systems in conservation and revaluation of heritage

PEK_U01 demonstrate the ability to retrieve information from literature, databases and other sources; demonstrate the ability to design main structural elements of a building

PEK_U03- design basic structural details

Related to social competencies:

PEK_K01 - Understand the importance of lifelong learning

PEK_K02 – Understand the responsibility for one's work

CURRICULUM CONTENT		
Mode of teaching - lectures		**Number of hours**
Lec1	Developing systems and elements of structures.	2
Lec2	The impact of the use of wood, steel and concrete on the formation of structural elements.	2
Lec3	Structural systems of stone and ceramic elements	2
Lec4	Developing rod constructions. Comparative overview of the structure of wood, concrete, steel and construction glass	2
Lec5	Development of geometry of covers based on an analogy to reverse grids and cable layers.	2
Lec6	Principles of developing systems of glass, metal and composite façades.	2
Lec7	Principle of developing systems of composite structures	2
Lec8	Final test	1
	Total hours	**15**

Mode of teaching - seminar		**Number of hours**
Se1	Development of systems. Overview of differences related to the type of used building material	2
Se 2	Traditional technologies of developing architectural form and casing	2
Se 3	Contemporary technologies of developing flat systems of timber, stone, ceramics, concrete, reinforced concrete, steel	2
Se 4	Spatial structural systems: gratings, shells, discs	2
Se 5	Contemporary technologies of developing spatial systems of timber, stone, concrete, reinforced concrete, steel, glass	2
Se 6	Tall structures: masts, television towers. high-rise buildings	2
Se 7	Historic bridges, contemporary bridges, underground structures	2
Se 8	Overview of latest technologies of revaluation of timber , stone, ceramic systems	1
	Total hours	**15**

TEACHING TOOLS
N1. Educational lecture N2. Interactive tutorial. N3. Consultations. N4. presentation N5. Individual work – preparation of paper. N6. Individual work – preparation for test.

ASSESSMENT OF ACHIEVEMENT OF LEARNING OUTCOMES

Lecture

Assessment (F – formative (during the semester), S – summative (at the end of semester)	Number of learning outcome	Method of assessing the achievement of learning outcome
F1	PEK_W01	Test α_1=1
P1=F1 α_1, where α_1=1, $\sum \alpha = 1$		

Tutorial

Assessment (F – formative (during the semester), S – summative (at the end of semester)	Number of learning outcome	Method of assessing the achievement of learning outcome
F1	PEK_U01 PEK_U02 PEK_U03	Paper α_1=0,5 Test α_2=0,5
P1=F1 $\alpha_1 + \alpha_2$		

BASIC AND ADDITIONAL LITERATURE

BASIC LITERATURE:

1. Klasztorny M., ***Mechanika*** D W E s. c. Wrocław 2000 r.
2. Masłowski E., Spiżewska D. ***Wzmacnianie konstrukcji budowlanych*** Arkady Warszawa 2000
3. Mielczarek Z., ***Nowoczesne konstrukcje w budownictwie*** *ogólnym* Arkady Warszawa 2001
4. Pfammatter U., ***Building the future***, Prestel Verlag, Munich-Berlin-London-New York 2008
5. Berger H., ***Light Structures-Structures of Light .The Art and Engineering of Tensile Architecture***, Basle 1996
6. Behling S.,and St.(eds), ***Glas.Konstruktion und Technologie in der Architectur***, Munich1999
7. Campagno A., ***Intelligente Glasfassaden. Material,Anwendung, Gestaltung***, Basle 2002
8. Elliott C., D., ***Technics and Architekture.The Development of Materials and Systems for buildings***, Cambridge, Mass, London 1992
9. Kaltenbach F., ***Translucent Materials.Glass, Plastic, Metals***, Basle 2004, (edition Detail)

10. Piano R., ***Sustainable Architectures***, Barcelona 1998

ADDITIONAL LITERATURE:

1. ***L'Architecture d'Aujourd'hui***
2. ***Architecture and urbanism (a+u)***

COURSE ADVISOR (NAME, SURNAME, E-MAIL)

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EQUIVALENCY MATRIX OF LEARNING OUTCOMES FOR COURSE
Modern constructions
WITH THE LEARNING OUTCOMES FOR ARCHITECTURE AND URBAN PLANNING
MAJOR
SPECIALIZING IN HERITAGE PROTECTION

Course learning outcome	Relation of course outcome with learning outcomes formulated for the major and specialization (if applicable)**	Course objectives***	Curriculum content***	No. of teaching tool***
PEK_W01 (knowledge)	K2AIU_K08	C1	Lec1-Lec8	N1, N6
PEK_U01 (skills)	K2AIU_U09	C1	Lec1-Lec8	N1, N6
PEK_U02	K2AIU_U04	C2	Se1- Se 8	N2, N3, N4, N5
PEK_U03	K2AIU_U04	C2	Se1- Se 8	N2, N3, N4, N5
PEK_K01 (competencies)	K2AIU_K01 K2AIU_K02	C1	Lec1-Lec8	N1, N6
PEK_K02	S2OZ_K01 S2OZ_K03	C2	Se1- Se 8	N2, N3, N4, N5

** - enter symbols for learning outcomes related to the academic concentration/specialization
*** - from the table above

FACULTY OF ARCHITECTURE

COURSE SYLLABUS

Course title in Polish **ARCHITEKTURA REGIONALNA**
Course title in English **REGIONAL ARCHITECTURE**
Academic major: **Architecture and Urban Planning**
Specialization: **Heritage Protection**
Course level and study mode: **second cycle, full-time**
Course type: **obligatory**
Course code **AUA 000503W**
Group of courses **No**

	Lecture	Tutorial	Lab	Project	Seminar
Number of contact hours	15				
Number of student workload hours	30				
Grading policy	pass with grade				
Mark (X) for final course in a group of courses					
ECTS points:	1				
including ECTS points for practical hours (P)					
including ECTS points for contact hours (CH)	1				

PREREQUISITES RELATING TO KNOWLEDGE, SKILLS AND OTHER COMPETENCIES

General architectural knowledge acquired during the 1st cycle program, knowledge of specialized terminology.

COURSE OBJECTIVES

C1- Explanation of terminology, principles of establishing architectural features and regions,
C2- Overview of regional architecture circumstances,
C3- Presentation of contemporary trends in designing regional architecture in Poland and abroad.

COURSE LEARNING OUTCOMES
Related to knowledge: PEK_W01 Distinguish the characteristic features of regional architecture in architectural regions in Poland and abroad.

CURRICULUM CONTENT		
Mode of teaching - lectures		**Number of hours**
Lec 1	Regionalism – introduction: notions, definitions, trends.	4
Lec2	Characteristic features of regional architecture and the principles of identifying architectural regions in Poland.	2
Lec 3	Regional Architecture of Sudeten.	2
Lec 4	Regional architecture abroad.	3
Lec 5	Contemporary trends in regional architecture in Poland.	2
Lec 6	Contemporary trends in regional architecture abroad.	2
	Total hours	**15**

TEACHING TOOLS
N1. Expository lecture N2. problem-oriented lecture N3. multimedia presentation,

ASSESSMENT OF ACHIEVEMENT OF LEARNING OUTCOMES

Assessment (F – formative (during the semester), S – summative (at the end of semester)	Number of learning outcome	Method of assessing the achievement of learning outcome
F1	PEK_W01	Presentation assessment - $\alpha_{2=}0,8$
F2	PEK_W01	Class participation assessment - $\alpha_{2=}0.2$
$P = \alpha_1 F1 + \alpha_2 F2$ where $\alpha_1=0,8$, $\alpha_2=0,2$, $\Sigma \alpha = 1$		

BASIC AND ADDITIONAL LITERATURE

BASIC LITERATURE:

[1] Czerwiński T., *Budownictwo ludowe w Polsce*, Warszawa 2006.
[2] Czerwiński T., *Wyposażenie domu wiejskiego w Polsce*, Warszawa 2009.
[3] W. Krassowski, *Dzieje budownictwa i architektury na ziemiach Polski*, Arkady 1989.
[4] Pokropek M., *Budownictwo ludowe w Polsce*, Warszawa 1976.
[5] Pryce W., *Architecture in Wood*, Hebron 1999.
[6] Suchodolski J., Regionalizm w kształtowaniu formy architektury współczesnej na obszarze Sudetów, Wrocław 1996.
[7] Tłoczek I., *Chałupy Polskie,* Warszawa 1958.
[8] Tłoczek I., *Dom mieszkalny na Polskiej wsi*, Warszawa 1985.
[9] Tłoczek I, *Budownictwo drewniane*, Wrocław 1980.
[10] Trocka-Leszczyńska E., *Wiejska zabudowa mieszkaniowa w regionie sudeckim*, Wrocław 1995.

ADDITIONAL LITERATURE:

[11] *Bauen und Bewahren auf dem Lande*, Monachium 1979.
[12] Bartoś M, Zalewska B., *Architektura w krajobrazie Warmii i Mazur*, Olsztyn 2003.
[13] Bogusz W., *Dokumentacja Budowlana: Projektowanie architektoniczne i budownictwo regionalne*, Warszawa 1996.
[14] *Denkmalpflege und Umweltgestaltung*, Monachium 1975.
[15] Jencks Ch., *Architektura postmodernistyczna*, Londyn 1984.
[16] Ogrodowska B., *Polskie obrzędy i zwyczaje*, Warszawa 2009.
[17] Mironiuk-Nikolska A., *Polska sztuka ludowa,*Warszawa 2010.
[18] Sieraczkiewicz J., Święch J., *Skanseny. Muzea na Wolnym Powietrzu w Polsce,* Warszawa 2002.
[19] *Słowniki geografii turystycznej Sudetów*, pod red. M. Staffy.
[20] Staffa M., *Karkonosze*, Wrocław 1996.
[21] Trocka-Leszczyńska E., *Międzygórze. Dzieje i Architektura*, Wrocław 2006.

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EQUIVALENCY MATRIX OF LEARNING OUTCOMES FOR COURSE

REGIONAL ARCHITECTURE

WITH THE LEARNING OUTCOMES FOR ARCHITECTURE AND URBAN PLANNING MAJOR

SPECIALIZING IN Heritage protection

Course learning outcome	**Relation of course outcome with learning outcomes formulated for the major and concentration**	**Course objectives**	**Curriculum content**	**No. of teaching tool**
PEK_W01 (knowledge)	**K2AiU_W02 S2OZ_W05**	C1	Lec1-Lec6	N1-N3

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FACULTY OF ARCHITECTURE

COURSE SYLLABUS

ARCHITECTURAL STYLES AND TYPOLOGY

Academic major: Architecture and Urban Planning
Specialization: Heritage Protection
Study cycle and study mode: 2nd cycle/full-time
Course type:obligatory
Course code AUA 000518
Group of courses No

	Lecture	Tutorial	Lab	Project	Seminar
Number of contact hours					30
Number of student workload hours					60
Grading policy					pass with grade
Mark (X) for final course in a group of courses					
ECTS points:					2
including ECTS points for practical hours (P)					
including ECTS points for contact hours (CH)					2

PREREQUISITES RELATING TO KNOWLEDGE, SKILLS AND OTHER COMPETENCIES

none

COURSE OBJECTIVES

C1 - To present stylistic formations in architecture from antiquity to the 20th century.
C2 - To introduce students to methods of dating works of architecture, especially based on ornaments.
C3 To present principles of the description and analyses of works of art, with special regard to historic architecture

COURSE LEARNING OUTCOMES

Related to knowledge:
PEK_W01 identify characteristic features of styles used in European architecture from antiquity to the 20th century.
PEK_W02 identify method of dating works of architecture
Related to skills:
PEK_U01 Recognize individual styles in architecture.
PEK_U02 Recognizes ornaments and architectural details
PEK_U03 Approximately date structures on the basis of their appearance.
PEK_U04 Analyze the building form and prepare its description.
Related to social competencies:
PEK_K01 Demonstrate awareness of artistic and historic values of heritage sites.

CURRICULUM CONTENT		
Mode of teaching - seminar		**Number of hours**
Se1, 2	Definition of the concept of style in art, especially in architecture, the history of the formation of this concept, its usefulness in research, conservation practice and in characterization of architecture.	4
Se3, 4	Stylistic analysis of a work of art.	4
Se5-10	History and role of the ornament, its appearance and change of form in individual eras.	12
Se11, 12	Relations between ornament and material and construction. Ornament as an aid in dating objects.	4
Se13	Introduction to the theory of research work related to the conservation of monuments and familiarization of students with the role of archival, bibliographic and iconographic queries.	2
Se14, 15	Presentation of methods of iconographic and iconological analysis, which treats the work of art as a synthetic whole of idea and matter.	4
	Total hours	**30**

TEACHING TOOLS
N1. multimedia presentations N2. Case studies N3. Problem-solving discussions N4. Trips to selected historic structures

ASSESSMENT OF ACHIEVEMENT OF LEARNING OUTCOMES

Assessment (F – formative (during the semester), S – summative (at the end of semester)	Number of learning outcome	Method of assessing the achievement of learning outcome
F1	PEK_W01, PEK_U01, PEK_U02, PEK_U03, PEK_U04	grade for presentation
F2	PEK_W01, PEK_W02, PEK_U01, PEK_U02, PEK_U03, PEK_U04	test
P=0,4·F1+0,6·F2		

BASIC AND ADDITIONAL LITERATURE

BASIC LITERATURE:

[35] Koch W., *Style w architekturze. Arcydzieła budownictwa europejskiego od antyku po czasy współczesne*, Warszawa 1996

[36] *Nacjonalizm w sztuce i historii sztuki 1789-1950*, red. D. Konstantynow, R. Pasieczny, P. Paszkiewicz, Warszawa 1998

[37] *Słownik terminologiczny sztuk pięknych*, red. S. Kozakiewicz, Warszawa 1976 i wyd. następne

ADDITIONAL LITERATURE:

[28] Kalinowski L., *Treści ideowe sztuki przedromańskiej i romańskiej w Polsce*, „Studia Źródłoznawcze", t. X, 1965

[29] *Renesans — sztuka i ideologia*, Warszawa 1976

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EQUIVALENCY MATRIX OF LEARNING OUTCOMES FOR COURSE
ARCHITECTURAL STYLES AND TYPOLOGY
WITH THE LEARNING OUTCOMES FOR ARCHITECTURE AND URBAN PLANNING MAJOR
SPECIALIZING IN HERITAGE PROTECTION

Course learning outcome	**Relation of course outcome with learning outcomes formulated for the major and concentration**	**Course objectives**	**Curriculum content**	**No. of teaching tool**
PEK_W01 (knowledge)	K2AiU_W02, S2AR_W01	C1	Se1-Se10	N1-N4
PEK_W02	S2AR_W01, S2OZ_W12	C2	Se11-Se15	
PEK_U01 (skills)	S2AR_U01	C1	Se1-Se10	N1-N4
PEK_U02				
PEK_U03	S2OZ_U11	C2	Se1-Se15	
PEK_U04				
PEK_K01 (competencies)	S2OZ_K03	C1-C3	Se1-Se15	N1-N4

FACULTY OF ARCHITECTURE

COURSE SYLLABUS

TECHNOLOGY 1 - CONSERVATION MATERIALS

Course title in English
Academic major: ARCHITECTURE AND URBAN PLANNING
Specialization: HERITAGE PROTECTION
Study cycle and study mode: second cycle, full-time
Course type:obligatory
Course code: AUA 000515
Group of courses: NO

	Lecture	Tutorial	Lab	Project	Seminar
Number of contact hours	-	-	-	-	30
Number of student workload hours					50
Grading policy					pass with grade
Mark (X) for final course in a group of courses					
ECTS points:					
including ECTS points for practical hours (P)					
Including ECTS points for contact hours (CH)					

PREREQUISITES RELATING TO KNOWLEDGE, SKILLS AND OTHER COMPETENCIES

1.KNOWLEDGE:

General knowledge of the causes of the destruction of architectural heritage and basic conservation research.

COURSE OBJECTIVES

C1 - To introduce students to the materials and chemical preparations used in heritage preservation.
C2 – To present problems related to choice of protective measures
C3 - To familiarize students with the directions of development of construction chemicals used in the preservation of monuments

COURSE LEARNING OUTCOMES

Related to knowledge:

S2OZ_W010 Demonstrate broad and in-depth knowledge of selected areas of chemistry and physics of buildings which is necessary to understand engineering and conservation problems. Understand the processes occurring in historic and contemporary construction and conservation materials as well as their structure.

S2OZ_W012 Demonstrate basic knowledge of research methods and stages in the research process and the research skills of an architectural historian and the specificity of architectural and archaeological research.

Related to skills:

S2OZ_U09: Identify the basic threats and physical and chemical factors leading to destruction of building materials, including those in historic structures and define the technical and technological methods of protecting and preserving them; verify the use of conservation materials and chemical preparations.

S2OZ_U010 Formulate and apply basic preventive conservation.

Related to social competencies:

S2OZ_K01 Demonstrate awareness of the following architectural relations and constraints: natural, ecological, urban, conservation and social including the consequences resulting from the cultural and historical context. S2OZ_K02 Understand the need to popularize pro-conservation attitudes in society, focused on the protection of the cultural and architectural heritage and landscape and promotion of their high social usefulness. S2OZ_K03 Demonstrate awareness of the role of cultural and architectural heritage for the civilization and identity of societies.

CURRICULUM CONTENT		
Mode of teaching - seminar		**Number of hours**
Se1	Introduction, requirements. Presentation of materials and chemical preparations.	2
Se2	Tests and analyses of organic and inorganic solvents and diluents used in conservation.	2
Se3	Pigments and binders.	2
Se4	Color materials and fillings.	2
Se5	Natural and artificial resins.	2
Se6	Waxes, glues, characteristics and implementation. Artificial resins.	2
Se7	Plastics as substitutes for traditional building materials.	2
Se8	Foamed and cellular plastics.	2
Se9	Hydrophobic and hydrophilic agents.	2
Se10	Wood protection products.	2
Se11	Wood protection products.	2
Se12	Stone protection products.	2
Se13	Stone protection products.	2
Se14	Products that protect brick and concrete.	2
Se15	Test	2
	Total hours	**30**

TEACHING TOOLS
N1. multimedia presentations N2. Expository lecture with elements of problem-solving lecture. N3. Interactive lecture and project and presentation N4. Presentation of paper by student N5. Consultations

ASSESSMENT OF ACHIEVEMENT OF LEARNING OUTCOMES

Assessment (F – formative (during the semester), S – summative (at the end of semester)	Number of learning outcome	Method of assessing the achievement of learning outcome
F1	S2OZ_W010	Assessment of the oral presentation - participation during classes - $\alpha_{1=}0,2$
F2	S2OZ_W010 S2OZ_W012	Assessment of test (Se15) $\alpha_{1=}0,6$
F3	S2OZ_U09 S2OZ_U010	Assessment for the presentation of problems covered by the paper - $\alpha_{2=}0,2$

$P = \alpha_1 F1 + \alpha_2 F2 + \alpha_3 F3,$ where $\alpha_1=0,2$; $\alpha_2=06$; $\alpha_3=02$; $\Sigma \alpha = 1$

P - Final evaluation of oral test, test and presentation of the issues contained in the paper (weighted average for oral test - 20%, test - 60%, and the presentation of the issues contained in the paper - 20%).

BASIC AND ADDITIONAL LITERATURE

BASIC LITERATURE:

[38] J. Ważny, J. Karyś - Ochrona budynków przed korozją biologiczną
[39] W. Domasłowski - Zabytki kamienne i metalowe, ich niszczenie i konserwacja profilaktyczna
[40] W. Domasłowski, M. Kęsy - Lewandowska, J. W. Łukaszewicz - Badania nad konserwacją murów ceglanych.
[41] A. Krajewski, P. Witomski - Ochrona drewna
[42] B. Zyska - Zagrożenia biologiczne w budynku.
[43] W. Borusiewicz, Konserwacja zabytków budownictwa murowanego.
[44] Z. Stramski, Chemiczne środki produkcji krajowej do ochrony drewna i odgrzybiania murów.

ADDITIONAL LITERATURE:

[30] Materiały po konferencji Toruń 23 - 24 października 1998 - Od badań do konserwacji
[31] W. Domasłowski - Spoinowanie murów ceglanych.
[32] P. Kozakiewicz, M. Matejak - Klimat a drewno zabytkowe.

COURSE INSTRUCTOR (NAME, SURNAME, E-MAIL)

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EQUIVALENCY MATRIX OF LEARNING OUTCOMES FOR COURSE
ARCHITECTURE OF WORKPLACES IN ZONES OF ADVANCED TECHNOLOGY (IN TECHNOPOLISES) 1
WITH THE LEARNING OUTCOMES FOR ARCHITECTURE AND URBAN PLANNING MAJOR

Course learning outcome	Relation of course outcome with learning outcomes formulated for the major and concentration and specialization	Course objectives	Curriculum content	Number of teaching tool (from table above)
S2OZ_W010	OT2A_W01 OT2A_W06 OT2A_W07	C1, C2, C3	Se1-Se8	N1, N2, N3, N4, N5
S2OZ_W012	OT2A_W01 OT2A_W06 OT2A_W07	C1, C2, C3	Se11 - Se14	N1, N2, N3, N4, N5
S2OZ_U09	OT2A_W01 OT2A_W06 OT2A_W07	C1, C2, C3	Se1 - Se14	N1, N2, N3, N4, N5
S2OZ_U010	OT2A_W01 OT2A_W06 OT2A_W07	C1, C2, C3	Se7, Se9-Se10	N1, N2, N3, N4, N5

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FACULTY OF ARCHITECTURE

COURSE SYLLABUS

ARCHITECTURAL DESIGN 1 - COMMERCIAL BUILDINGS

COMMERCIAL BUILDINGS IN THE CULTURAL LANDSCAPE

Course title in English ARCHITECTURAL DESIGN 1 – B*UILDINGS OF PUBLIC USE IN CURTURAL LANDSCAPE*
Academic major: Architecture and Urban Planning
Specialization: Heritage Protection
Study cycle and study mode: second cycle, full-time
Course type: obligatory
Course code: AUA 000501
Group of courses No

	Lecture	Tutorial	Lab	Project	Seminar
Number of contact hours	15			45	
Number of student workload hours	60			90	
Grading policy	Examination			pass with grade	
Mark (X) for final course in a group of courses					
ECTS points:	2			4	
including ECTS points for practical hours (P)					
including ECTS points for contact hours (CH)	1			1	

PREREQUISITES RELATING TO KNOWLEDGE, SKILLS AND OTHER COMPETENCIES

1. KNOWLEDGE Students demonstrate knowledge of designing building with a simple structure and form. Prepare a program for structures with a uniform function.
2. SKILLS: Students use computer aided design software and computer graphic programs to create presentations.

COURSE OBJECTIVES

C1 The lectures aim at teaching students how to properly design commercial buildings in a cultural landscape.

C2 The aim of the project is to teach students how to incorporate a commercial facility (urban, functional, spatial, structural and materials solution) into an urban context, according to the current law.

COURSE LEARNING OUTCOMES

Related to knowledge:

PEK_W01 Characterize commercial architecture in the context of natural, urban and historic circumstances.

PEK_W02 Describe current trends in the design of commercial buildings (such as administrative buildings, commercial, auditorium, exhibition, recreation and sport facilities) in the context of historical determinants of the place.

Related to skills:

PEK_U01 Demonstrate the ability to design a selected commercial structure with particular attention to: the correctness of integration of proposed facility (complex) into the context of the place, harmonious solutions for vehicular and pedestrian communication, appropriate functional solution - suitable for determinants of historical context - architectural form that meets the requirements of the applicable building code.

Related to social competencies:

PEK_K01 Demonstrate an awareness of the importance of professional etiquette, respecting the principles of professional ethics and respecting the diversity of opinions and cultures.

PEK_K02 Demonstrate awareness of the responsibility for their own work and readiness to follow the rules of teamwork and to take responsibility for tasks performed as a team.

PEK_K03 Understand the social role of the graduate of a technical university, in particular understand the need to formulate information and inform the society – e.g. through mass media - the information and opinions on the achievements of architecture and other aspects of engineering-architectural work;

attempt to spread such information and opinions in a clear way.

CURRICULUM CONTENT		
Mode of teaching - lectures		**Number hours**
Lec1	Legal basis for designing, including reference to conservation guidelines.	3
Lec2	Multi-service commercial centers (including malls, shopping centers and offices).	2
Lec3	Exhibition centers (including: museums, art galleries ,exhibition complexes).	2
Lec4	Cultural and entertainment centers (including: halls for events, concerts, theatre performances, movies, conferences)	2
Lec5	Sports and recreation complexes (including stadiums, sports halls, waterparks),	2
Lec6	Research and teaching complexes of universities (including lecture halls, auditoriums).	2
Lec7	Structures serving public transport (including railway stations, bus stations, airports).	2
	Total hours	**15**

Mode of teaching - project		**Number hours**
Pr1	Analysis of the landscape, urban environment and the historical context.	3
Pr2	- land use plan 1:500 scale, with a cubic representation of location of structure in and existing (historic) surrounding.	6

	As a supplement: working model of the structure in the context of existing development.	
Pr3	Presentation I, discussion.	3
Pr3	Work on the architectural concept, including: - views of all floors 1:200 scale, selected fragment 1:100 scale, - selected fragment 1:100 scale, - characteristic views of the structures in the historic setting, - as a supplement: working model of the structure within the surroundings.	18
Pr4	Presentation 2, discussion	3
Pr5	Work on technical and material solutions and graphic presentation of the project: -characteristic sections and elevations - 1:200, 1:100 scale, -architectural detail – scale 1: 50, 1:20, -perspective drawings and visualizations of the structure with consideration of the historic context, - as a supplement: model of the structure with technological-material solutions and multimedia presentation.	9
Pr6	Final 3rd presentation , discussion, assessment	3
	Total hours	**45**

TEACHING TOOLS
N1. Expository lecture N2. problem-solving lecture N3. multimedia presentation, N4. Presentation of project. N5. consultation N6. discussion

ASSESSMENT OF ACHIEVEMENT OF LEARNING OUTCOMES

Lecture

Assessment (F – formative (during the semester), P – summative (at the end of semester)	Number of learning outcome	Method of assessing the achievement of learning outcome
F1	PEK_W01 PEK_W02	Examination - $\alpha_{1=}1$
P1=F1 $\alpha_{1,}$ where α_1=1		

Project

Assessment (F – formative (during the semester), P – summative (at the end of semester)	Number of learning outcome	Method of assessing the achievement of learning outcome
F1	PEK_U01	Assessment of the content quality of the project - $\alpha_{3=}0,8$

F2	PEK_U01	Class participation assessment (min. 50% critiques, credit for all reviews) $\alpha_{4=}0,2$
$P=F1\alpha_3+F4_2\alpha_4$, where $\alpha_3=0,8$, $\alpha_4=0,2$		

BASIC AND ADDITIONAL LITERATURE

BASIC LITERATURE:

[1] Z. Błądek, *Hotele: programowanie, projektowanie, wyposażenie,* 2001.
[2] Deilmann H., Deilmann T., *Bank-, Sparkassen- und Versicherungsbauten*, Stuttgart 1978.
[3] *Dziennik Ustaw* . Nr 75, poz. 690 z późniejszymi zmianami.
[4] P. Jodidio, *Architecture Now* (bieżące wydania).
[5] P. Jodidio, *Nowe formy. Architektura lat dziewięćdziesiątych XX wieku, 1998.*
[6] G.C. Izenour, *Theater design,* 1996.
[7] Jodidio Ph., Public Architecture Now!, Taschen 2010.
[8] *The Haidion Atlas of Contemporary World Architecture*, Hadion 2005.
[9] V. Karfik, *Budynki biurowe*, Warszawa, 1968.
[10] J. Knirsch. *Büroräume. Bürohäuser*, Stuttgart 2002.
[11] E. Neufert, *Podręcznik projektowania architektoniczno–budowlanego,* Warszawa (nowe edycje).
[12] M. Omilanowska, *Świątynie handlu. Warszawska architektura komercyjna doby wielkomiejskiej*, Warszawa 2004.
[13] N. Pewsner, *A history of building types,* Nowy Jork 1976.
[14] *Rozporządzenie Ministra Infrastruktury z dnia 12 kwietnia 2002 r. w sprawie warunków technicznych, jakim powinny odpowiadać budynki i ich usytuowanie*. (Dz. U. nr 75, poz. 690; z późniejszymi zmianami)
[15] G. Matthews, *Museums and Art. Galleries*, 1991.
[16] J. Myerson, P. Ross, *The 21st Century Office*, London 2003.
[17] E. Neufert, *Podręcznik projektowania architektoniczno–budowlanego,* Warszawa 1995.
[18] G. Thompson, *Planning and Design of Library Buildings*, 1991.
[19] R. Hasher, S. Jeska, B. Klauck, *A Design Manual Office Buildings*, Basel 2002.
[20] H. Watson, *Hotel Revolution, 21st Century Hotel Design*, England 2005.

ADDITIONAL LITERATURE:

[1] Aktualne wydawnictwa tematyczne i dostępne wytyczne do projektowania poszczególnych typów obiektów.
[2] Bieżące czasopisma architektoniczne, m.in.: „Architektura & Biznes", „Architektura"., „Archivolta"
[3] J. Czarnecki , *Projektowanie obiektów bankowych*, Gliwice 2005.
[4] P. Jodidio. *The World of Contemporary Architecture*, Cambridge 2003.
[5] P. Jodidio, *Building a New Millenium*, Rotterdam 2000.
[6] Ujma-Wąsowicz K., *Ergonomia w architekturze*, 2005.

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EQUIVALENCY MATRIX OF LEARNING OUTCOMES FOR COURSE
ARCHITECTURAL DESIGN 1 – COMMERCIAL BUILDINGS IN THE CULTURAL LANDSCAPE
WITH THE LEARNING OUTCOMES FOR ARCHITECTURE AND URBAN PLANNING MAJOR
SPECIALIZING IN HERITAGE PROTECTION

Course learning outcome	**Relation of course outcome with learning outcomes formulated for the major and concentration**	**Course objectives**	**Curriculum content**	**No. of teaching tool**
PEK_W01 (knowledge)	**K2AiU_W02, K2AiU_W03, K2AiU_W04**	C1	Lec1-Lec8	N1-N3
PEK_W02	**K2AiU_W02, K2AiU_W03, K2AiU_W04**	C1	Lec1-Lec8	N1-N3
PEK_U01 (skills)	**K2AIU_U04, K2AiU_U05**	C2	Pr1-Pr7	N4-N6

Annex no 4 to ZW 33/2012

FACULTY OF ARCHITECTURE

COURSE SYLLABUS

DETAIL IN HISTORIC ARCHITECTURE - PROJECT

Academic major: ARCHITECTURE AND URBAN PLANNING
Specialization: HERITAGE PROTECTION
Study cycle and study mode: second cycle, full-time
Course type: obligatory
Course code AUA105706P
Group of courses No

	Lecture	Tutorial	Lab	Project	Seminar
Number of contact hours				30	
Number of student workload hours				60	
Grading policy				Pass with grade	
Mark (X) for final course in a group of courses					
ECTS points:				2	
including ECTS points for practical hours (P)				2	
including ECTS points for contact hours (CH)				2	

PREREQUISITES RELATING TO KNOWLEDGE, SKILLS AND OTHER COMPETENCIES

1. Knowledge: Knowledge of designing and composition problems. Knowledge of history of Polish and general architecture.
2. Skills: Use appropriate techniques of creating images that aid architectural design, compile an architectural inventory in the field.
3. Other competencies: Awareness of artistic, cultural and historic values of heritage sites.

COURSE OBJECTIVES

C1- To introduce students to the history of architectural detail and ornament, their form, color and technology over the centuries.
C2 - To introduce students to the history of the profession of architect, decorator and craftsman.
C3- To develop skill in gathering documentation and designing a contemporary detail in a historic building - or reconstructing historic detail with colors.

COURSE LEARNING OUTCOMES

Related to knowledge:

PEK_W01: Identify and describe appropriate relationships between contemporary architecture and historic architecture which is of great heritage value.

PEK_W02: Demonstrate theoretically grounded detailed knowledge of selected issues of theory and principles of designing architectural detail and interior.

PEK_W03: Demonstrate basic knowledge of research methods and skills of an architectural historian.

PEK_W04: Demonstrate systematic knowledge of architectural protection of heritage structures.

Related to skills:

PEK_U01: Compile an architectural and conservation inventory, document details.

PEK_U02: Formulate conservation guidelines for historic buildings.

PEK_U03: Based on the analysis of documentation and the form of architectural detail and ornament define their style and construction.

PEK_U04: Preserve or reconstruct the form of architectural detail.

Related to social competencies:

PEK_K01: Demonstrate awareness of the conservation constraints of architecture and the consequences resulting from the cultural and historical context.

PEK_K02: Demonstrate awareness of the role of cultural and architectural heritage for the civilization and identity of societies.

CURRICULUM CONTENT		
Mode of teaching - project		**Number of hours**
Pr1	Choice of preliminary topic from a list, formulation of documentation in the field.	**2**
Pr2-3	Gathering of archival documentation (designs and iconographic data), literature and material for comparison. Formulation of conservation objectives.	**4**
Pr4	Compilation of a measurement inventory of an elevation or interior and existing details, redrawing of archival documentation.	**2**
Pr5-6	Preparation of preliminary concept.	**4**
Pr7	Presentation of gathered historic material and preliminary concept. Submission of the first draft of the project, assessment.	**2**
Pr8	Submission of sketchbook with details, assessment. Project work, defining the scope of study of details.	**2**
Pr9-12	Design of reconstructed or contemporary detail.	**8**
Pr13-14	Design or reconstruction of colors.	**4**
Pr15	Submission of the project, presentation of work and assessment.	**2**
	Total hours	**30**

TEACHING TOOLS
N1. multimedia presentation, N2. consultation, field work, presentation of project

ASSESSMENT OF ACHIEVEMENT OF LEARNING OUTCOMES

Assessment (F – formative (during the semester), S – summative (at the end of semester)	Number of learning outcome	Method of assessing the achievement of learning outcome
F1	PEK_W03 PEK_U01-03 PEK_K02	Assessment of gathered documentation – submission of first draft of the project
F2	PEK_W01-02 PEK_W04 PEK_U02 PEK_U04 PEK_K01-02	Assessment of individually prepared sketchbook with details and descriptions
F3	PEK_W03 PEK_U01-03 PEK_K02	Assessment of the project - submission of final project
P= average of F3 and average value of F1+ F2		

BASIC AND ADDITIONAL LITERATURE

BASIC LITERATURE:

Architectural Theory from the Renaissance to the Present, Köln 2003.

J. B. Vignola, *O pięciu porządkach w architekturze*, tyt. oryg. *Regola delli cinque ordini dell'architettura (1562)*, przekł. K. Tymiński, Warszawa 1955.

A. Palladio, *Cztery księgi o architekturze*, tyt. oryg. *I quattro libri dell'Architettura (Venezia 1581)*, przekł. M. Rzepińska, Warszawa 1955.

H. Pfeifer, *Handbuch der Architektur,* T. 1, *Allgemeine Hochbaukunde*, Bd. 3, *Die Formenlehre des Ornaments*, Stuttgart 1906.

H. Lutsch, *Die Kunstdenkmäler der Stadt Breslau*, Breslau 1889, and other publications of this author.

N. F. Lorenz, *Ornament. Wielka kolekcja*, Warszawa 2011.

ADDITIONAL LITERATURE:

Stanisław Mielnicki, *Ustroje budowlane*, Katowice 1947.

Peter Beinhauer, *Katalog standardowych rozwiązań projektowych detali dla projektów budowlanych*, Rzeszów 2012.

R. Ahnert, K. H. Krause, *Typische Baukonstruktionen von 1860 bis 1960*, Bd. I-III, Berlin 2009.

B. Liebold, *Budowle z cegły nietynkowanej. Wzornik detalu dekoracyjnego*¸Holzminden 1891, reprint Wydawnictwo Górnoleśne.

B. Liebold, *Budownicto drzewne. Wzornik detalu snycerskiego*, Holzminden 1893, reprint Wydawnictwo Górnoleśne.

And other treaties and architectural portfolios.

COURSE ADVISOR (NAME, SURNAME, E-MAIL)

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EQUIVALENCY MATRIX OF LEARNING OUTCOMES FOR COURSE
DETAIL IN HISTORIC ARCHITECTURE - DESIGN
WITH THE LEARNING OUTCOMES FOR ARCHITECTURE AND URBAN PLANNING MAJOR
SPECIALIZING IN HERITAGE PROTECTION

Course learning outcome	**Relation of course outcome with learning outcomes formulated for the major and concentration**	**Course objectives**	**Curriculum content**	**No. of teaching tool**
PEK_W01 (knowledge)	S2OZ_W02	C3	Pr5-Pr15	N1, N2
PEK_W02	S2OZ_W07	C3	Pr5-Pr15	N1, N2
PEK_W03	S2OZ_W12	C1, C2, C3	Pr1-Pr15	N1, N2
PEK_W04	K2AiU_W05	C3	Pr5-Pr15	N1, N2
PEK_U01 (skills)	S2OZ_U07 S2OZ_U08 S2OZ_U11	C1, C2, C3	Pr1-Pr8	N1, N2
PEK_U02	S2OZ_U07	C1, C2, C3	Pr1-Pr8	N1, N2
PEK_U03	S2OZ_U11	C1, C2	Pr1-Pr8	N1
PEK_U04	S2OZ_U11	C1, C2, C3	Pr1-Pr15	N1, N2
PEK_K01 (competencies)	S2OZ_K01	C3	Pr5-Pr15	N1, N2
PEK_K02	S2OZ_K003	C1, C2	Pr1-Pr8	N1, N2

Faculty of Architecture

COURSE SYLLABUS

URBAN DESIGN - TRANSFORMATIONS OF URBAN STRUCTURES

Course title in English Urban Design - urban structure transformation
Academic major: **Architecture and Urban Planning**
Study cycle and study mode: second cycle, full-time
Course type:obligatory
Course code: AUA 105663W, AUA 105664P
Group of courses: NO

	Lecture	Tutorial	Lab	Project	Seminar
Number of contact hours	30			45	
Number of student workload hours	60			90	
Grading policy	Examination			credit	
ECTS points:	**2**			**3**	
Including ECTS points for practical hours (P)				**3**	
Including ECTS points for contact hours (CH)	**1**			**1**	

PREREQUISITES RELATING TO KNOWLEDGE, SKILLS AND OTHER COMPETENCIES

- Knowledge of the basic issues relating to the design of complexes of single-family and multi-family houses.
- Knowledge of issues of 1st cycle of study in the field of urban design courses.

COURSE OBJECTIVES

C1. To familiarize students with the system of spatial planning and the basic tools of spatial policy, methods of preparing analyzes of internal and external conditions and the interpretation of their results.
C2. To develop skills in developing and presenting spatial development project for a building complex with greenery and selected urban facilities.
C3. To develop skills in preparing land use plan for selected urban area.

COURSE LEARNING OUTCOMES

Related to knowledge:

PEK_W01 Demonstrate knowledge of the spatial planning system and basic tools of spatial policy in Poland and the EU.
PEK_W02 Demonstrate knowledge of contemporary ideas of shaping space in cities.
PEK_W03 Identify principles of formulating local zoning plans for advanced urban complexes using the applicable notation.
PEK_W04 Demonstrate broad knowledge which takes into consideration the interdisciplinary character of circumstances of urban planning.
PEK_W05 Demonstrate advanced knowledge of parameters of traffic engineering and the principles of designing roads, streets, cycle lanes, pedestrian precincts and parking lots and equipment of technical infrastructure.
PEK_W06 Identify the regulations and procedures of formulating local land-use plans. zoning and their impact on the investment.

Related to skills:

PEK_U01 Prepare complex analysis of external and internal circumstances and their synthesis and interpret the results.

PEK_U02 Interpret guidelines from superior planning studies and implement them in professional design practice.

PEK_U03 Identify and characterize elements of urban structures and classify functions.

PEK_U04 Develop the spatial structure of urban complexes with consideration of the functional program, communication services, spatial composition, connections with service centers and green areas.

PEK_U05 Characterize urban coefficients and parameters and understand relations between them.

PEK_U06 Start creative work in urban design.

PEK_U07 Prepare and present the result of their design work in the form of a local land-use plan zoning of increasing complexity, taking into account technical , social, natural, cultural and legal requirements

PEK_U08 Demonstrate skills in developing the human environment with consideration of relationships between people and buildings and space.

PEK_U09 Solve different types of spatial problems and conflicts.

Related to social competencies:

PEK_K01 Understand the impact of provisions of land-use plans on the urban shape and functioning of space.

PEK_K02 Understand the role of urban planners in developing a valuable and safe space.

PEK_K03 Understand the profession of architect - urban planner and the influence of studies they create on the quality of environment.

PEK_K04 Demonstrate readiness to start work in urban planning studios, units of local administration responsible for urban development.

PEK_K05 Demonstrate readiness to start research work in the areas of urban design.

CURRICULUM CONTENT		
Mode of teaching - lectures		Number hours
Lec1	Scope of the lecture, course completion requirements, literature. The role of the study of circumstances and trends of the spatial development of the commune in city development.	2
Lec2	Scope of analyzes related to external circumstances and internal of urbanized space.	2
Lec3	Superior planning documents: the concept of national spatial development plan, zoning plan for province, national and regional operational programs.	2
Lec4	Ideas for developing city space.	2
Lec5	Typology of city structures. Exogenous and endogenous functions of cities.	2
Lec6	The role of local planning in the development of space. Planning tools - local land use plans. The role of "special laws" in the shaping of space.	2
Lec7	Principles of designing transport systems in the city: vehicular, pedestrian, cycling, rail communication and public transport.	2
Lec8	Principles of functional program development of the urban planning team: idea of school unit, idea of the sustainable development. Hierarchy of service centers.	2

Lec9	Creating a balance of land use, parameters and indicators.	2
Lec10	Overview of selected examples of developing urban developments.	2
Lec11	Elements of Urban Design	2
Lec12	Interpretation of planning guidelines in the land-use plan.	2
Lec13	Design of public space in cities - overview of selected examples.	2
Lec14	Problems of contemporary cities.	2
Lec15	Relations of architectural structures with surrounding urbanized space.	2
	Total hours	**30**

Mode of teaching - project		Number hours
Pr1	Overview of the scope of the project, course completion requirements, literature. Handing out of output materials for the project.	3
Pr2	PRESENTATIONS Overview of aggregate determinants in the form of presentation: - external factors related to location and communication; - natural and cultural circumstances; - internal conditions (guidelines from the study and the adjacent master plans)	3
Pr3	CONSULTATIONS. Overview and summary of the problems associated with presentations during previous classes - summary. Schematic diagram, inspirations - examples of solutions	3
Pr4	CONSULTATIONS. - vehicular and pedestrian communication schemes;. - scheme of pedestrian communication links, green and recreational areas.	3
Pr5	CONSULTATIONS. - functional program, (housing, services); - distribution scheme of commercial facilities.	3
Pr6	CONSULTATIONS. - site summary, - composition diagram, - urban visualizations , - choosing the project area of urban concept.	3
Pr7	2nd PRESENTATION OF PROJECTS. - functional and spatial schemes - 1:5000 scale, - functional program, - site summary.	3
Pr8	CONSULTATIONS. Overview and summary of the problems associated with projects. The urban concept of the selected area at a scale of 1:2000 with elements of planning arrangements: basic and complementary functions of areas, lines dividing areas of functional units, frontage, walls of green, markings of the functions of areas, public pathways, compositional elements, parameters and indicators pertaining to the development of land and buildings (building height, building intensity, the shape of roofs, building area index, share, biologically active areas, the indicator of parking places, defining public spaces).	3
Pr9	CONSULTATIONS.	3

	Urban sections	
Pr10	CONSULTATIONS. Model - scale 1:1000	3
Pr11	3RD PRESENTATION OF PROJECTS. The urban concept of a selected area – 1:1000/1:500 scale	3
Pr12	CONSULTATIONS - Design of selected public space – projection at a scale of 1:1000/1:500	3
Pr13	CONSULTATIONS - Design of selected public space – sections	3
Pr14	CONSULTATIONS - Design of selected public space – visualizations	3
Pr15	Presentation and submission of final projects. Credit	3
	Total hours	**45**

TEACHING TOOLS	
9.	Lecture with multimedia presentation
10.	Individual project consultations with the instructor.
11.	In-class assignments on a given topic.
12.	Own work - preparation of the project for presentation and submission.
7.	Individual work – study and preparation for the final examination.

ASSESSMENT OF ACHIEVEMENT OF LEARNING OUTCOMES

Lecture

Assessment (F – formative (during the semester), S – summative (at the end of semester)	Number of learning outcome	Method of assessing the achievement of the learning outcome
P	PEK_W01 ÷ PEK_W06 PEK_U01 ÷ PEK_U09 PEK_K01 ÷ PEK_K05	Written exam

Project

Assessment (F – formative (during the semester), S – summative (at the end of semester)	Number of learning outcome	Method of assessing the achievement of the learning outcome
F1	PEK_U01 ÷ PEK_U4	Presentation of project.
F2	PEK_U05 ÷ PEK_U7	Presentation of project.
F3	PEK_U08 ÷ PEK_U09	Presentation of project.
F4		project
P =F1x0,2+F2x0,2+F3x0,2+F4x0,4		

BASIC AND ADDITIONAL LITERATURE

BASIC LITERATURE

21. Chmielewski Jan Maciej, Teoria urbanistyki w projektowaniu i planowaniu miast, Oficyna Wydawnicza Politechniki Warszawskiej, Warszawa 2001;

22. Chmielewski Jan Maciej, Więcławowicz G.(red.) Studium uwarunkowań i kierunków zagospodarowania przestrzennego, a miejscowe plany zagospodarowania przestrzennego, Komitet Przestrzennego Zagospodarowania Kraju PAN, Warszawa 2010;
23. Duanay Andres, The smart growth manual, New York , McGraw-Hill 2010
24. Gehl Jan, Życie między budynkami. Użytkowanie przestrzeni publicznych, Kraków 2009;
25. French Hilary, New urban housing / Hilary French., Laurence King, London, 2009.
26. Wejchert Kazimierz, Elementy kompozycji urbanistycznej, Arkady, 2008;
27. Ustawa z dnia 27 marca 2003r o planowaniu zagospodarowaniu przestrzennym.(Dz. U. Nr 80, poz.717 z późn.zm.);
28. Lance Jay Brown, Urban design for an urban century: placemaking for people, John Wiley & Sons, cop. Hoboken 2009;
29. Lorens Piotr. Gospodarowanie przestrzenią, a polityka równoważenia rozwoju. Urbanista 9/2005;
30. Ostrowski W., Wprowadzenie do historii budowy miast. Ludzie i środowisko, Oficyna Wydawnicza Politechniki Warszawskiej, Warszawa 1996;

ADDITIONAL LITERATURE

25. Charter of Athens.
26. New Charter of Athens.
27. Yeang, Ken, Ecomasterplanning , Wiley, Chichester 2009;
28. Zuziak Zbigniew K. O tożsamości urbanistyki , Wydawnictwa PK, Kraków 2009.
29. Longstreth R., City Center to Regional Mall, MIT Press, Cambridge 1997;
30. Parysek, Jerzy Jan , Miasta polskie na przełomie dwudziestego i dwudziestego pierwszego wieku, BWN, Poznań 2005;
31. Ustawa z dnia 7 lipca 1994 r. - Prawo budowlane (Dz.U. z 1994 Nr 89 poz. 414 z późn.zm.);
32. Ustawa z dnia 21 marca 1985 r. o drogach publicznych (Dz.U. 1994 nr 89 poz. 414 z późn.zm.);
33. Korzeniewski W., Parkingi i garaże dla samochodów osobowych, COIB, Warszawa 1997;
34. Rozporządzenie Ministra Infrastruktury z dnia 26 sierpnia 2003 r. w sprawie wymaganego zakresu projektu miejscowego planu zagospodarowania przestrzennego (Dz. U. Nr 164, poz. 1587);
35. Rozporządzenie Ministra Infrastruktury z dnia 12 kwietnia 2002 r. w sprawie warunków technicznych, jakim powinny odpowiadać budynki i ich usytuowanie. (Dz.U. z 2002 Nr 75 poz. 690 z późn.zm.);
36. Rozporządzenie Ministra Transportu i Gospodarki Morskiej z dnia 2 marca 1999 r. w sprawie warunków technicznych, jakim powinny odpowiadać drogi publiczne i ich usytuowanie (Dz.U. 1999 nr 43 poz. 430).

COURSE ADVISOR (NAME, SURNAME, E-MAIL)

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EQUIVALENCY MATRIX OF LEARNING OUTCOMES FOR COURSE
URBAN DESIGN - TRANSFORMATIONS OF URBAN STRUCTURES
WITH THE LEARNING OUTCOMES FOR ARCHITECTURE AND URBAN PLANNING MAJOR

Course learning outcome	Relation of course outcome with learning outcomes formulated for the major	Course objectives	Curriculum content	Number of teaching tool
PEK_W01÷ PEK_W06	K2AiU_W01, K2AiU_W02, K2AiU_W03, K2AiU_W06, K2AiU_W07	C1÷ 3	Lec1÷ Lec15	1÷6
PEK_U01÷ PEK_U08	K2AiU_U04, K2AiU_U04, K2AiU_U07, K2AiU_U08	C1÷ 3	Pr.1÷ Pr15	1÷ 6
PEK_K01÷ PEK_K05	K2AiU_K02, K2AiU_K03	C1÷ 3	Lec.÷Lec15 Pr1÷Pr15	1÷6

Zał. nr 4 do ZW 33/2012

FACULTY OF ARCHITECTURE

COURSE SYLLABUS

ARCHITECTURAL DESIGN 1 - COMMERCIAL ARCHITECTURE

Academic major: ARCHITECTURE AND URBAN PLANNING
Specialization: Architecture, Urban planning
Study cycle and study mode: Second cycle, full-time / part-time
Course type: obligatory
Kod przedmiotu AUA000003W, AUA000003P
Group of courses No

	Lecture	Tutorial	Lab	Project	Seminar
Number of contact hours	15			60	
Number of student workload hours	30			210	
Grading policy	Examination			pass with grade	
Mark (X) for final course in a group of courses					
ECTS points:	2			7	
including ECTS points for practical hours (P)				7	
including ECTS points for contact hours (CH)	1			3	

PREREQUISITES RELATING TO KNOWLEDGE, SKILLS AND OTHER COMPETENCIES

1. KNOWLEDGE: Students demonstrate knowledge of designing commercial buildings with a simple structure and form. Have a completed course in preliminary design and architectural design in an undergraduate program.
2. SKILLS: Students can independently solve simple design tasks. Use CAD computer aided design software and computer graphic programs to create presentations.

COURSE OBJECTIVES

C1 The objective of the course is to increase knowledge of commercial architecture.
C2 The course equips students with the skills in designing commercial buildings in different urban contexts.
C3 The objective of the course is to equip students with a creative approach to designing such structures and to searching for innovative solutions.

COURSE LEARNING OUTCOMES

Related to knowledge:

PEK_W01 demonstrate advanced knowledge of commercial architecture and its typology necessary to design structures with a complex function in an urban and historic context; demonstrate thorough knowledge of technical problems related to design and construction of such structures, including fire safety and the use of structures by people with disabilities.

Related to skills:

PEK_U01 Design complex (multi-purpose), large commercial facilities such as: multi-purpose commercial centers, exhibition centers (museums, exhibition complexes), cultural and entertainment centers (including auditorium, concert, theater, conference halls) sports and recreation complexes (including stadiums, sports halls, Aqua parks), research and teaching complexes of universities (including lecture halls, auditoriums), facilities serving public transport (including railway stations, bus stations, airports).

Perform analysis on: the link with the existing environment and the accessibility of the proposed facility (also for the disabled), functional and spatial relationships, and the used construction and materials solutions. Demonstrate skill in the preparation of architectural documentation for selected structures that meet the requirements of the applicable building code.

Related to social competencies:

PEK_K01 Demonstrate an awareness of the importance of professional etiquette, respecting the principles of professional ethics and respecting the diversity of opinions and cultures.

PEK_K02 Demonstrate awareness of the responsibility for their own work and readiness to follow the rules of teamwork and to take responsibility for tasks performed as a team.

PEK_K03 Demonstrate awareness of the social role of a technical university graduate, and in particular understand the need to formulate information and opinions and inform the society – e.g. through the mass media – about the achievements of architecture as well as other aspects of an architect's and urban planner's professional work; make an effort to spread such information and opinions in a way that is clear.

CURRICULUM CONTENT		
Mode of teaching - lectures		**Number of hours**
Lec1	Legal basis for designing part 2 (including multi-level parking lots).	3
Lec2	Multifunctional commercial centers.	2
Lec3	Exhibition centers (including: museums, exhibition complexes).	2
Lec4	Cultural and entertainment centers (including: halls for events, concerts, theatre performances, conferences)	2
Lec5	Sports and recreation complexes (including stadiums, sports halls, Aqua parks),	2
Lec6	Research and teaching complexes of universities (including lecture halls, auditoriums).	2
Lec7	Structures serving public transport (including railway stations, bus stations, airports).	2
	Total hours	**15**

Mode of teaching - project		**Number hours**
Pr1	Analysis of the urban and natural environment.	8

Pr2	- land use plan 1:500 scale,	8
Pr3	Presentation I, discussion.	4
Pr4	Work on the architectural concept, including: - conceptual views of all floors – 1:200 scale, -characteristic sections and elevations - 1:200, 1:100 scale - selected fragment of the structure – 1:100 scale, -perspective drawings and visualizations, - as a supplement: working model of the structure within the surroundings.	20
Pr5	Presentation 2, discussion	4
Pr6	Work on technical and material solutions and graphic presentation of the project: - perspective drawings, visualizations of the structure, with the interior, - architectural detail 1:50, 1:20, - propositions for materials and colors - as a supplement: model of the structure with technological-material solutions/multimedia presentation.	12
Pr7	Final 3rd presentation , discussion, assessment	4
	Total hours	**60**

TEACHING TOOLS
N1. Expository lecture N2. problem-solving lecture N3. multimedia presentation, N4. Presentation of project. N5. consultation N6. discussion

ASSESSMENT OF ACHIEVEMENT OF LEARNING OUTCOMES

Lecture

Assessment (F – formative (during the semester), S – summative (at the end of semester)	Number of learning outcome	Method of assessing the achievement of learning outcome
F1	PEK_W01	Examination - $\alpha_{1=}1$
$P = \alpha_1 F1$ where $\alpha_1=1$, $\Sigma \alpha = 1$		

Project

Assessment (F – formative (during the semester), S – summative (at the end of semester)	Number of learning outcome	Method of assessing the achievement of learning outcome
F1	PEK_U01	Assessment of the content quality of the project - $\alpha_{2=}0,8$
F2	PEK_K01 PEK_K03	Class participation assessment (min. 50% critiques, credit for all reviews) $\alpha_{3=}0,1$
F3	PEK_K02	Assessment of oral presentation $\alpha_{4=}0,1$
$P = \alpha_2 F1 + \alpha_3 F2 + \alpha_4 F3$ where $\alpha_2=0,8$, $\alpha_3=0,1$, $\alpha_{4=}0,1$ $\Sigma \alpha = 1$		

BASIC AND ADDITIONAL LITERATURE

BASIC LITERATURE:

[10] Błądek Z., *Hotele bez barier: przystosowanie do potrzeb osób niepełnosprawnych*, 2003.
[11] Błądek Z., *Hotele: programowanie, projektowanie, wyposażanie*, 2001.
[12] Cerver F., A., *The World of Contemporary Architecture*, Koenemann 2005.
[13] Edwards B., *Libraries and learning resource centers*, 2002.
[14] Izenour G.C., *Theater design,* 1996.
[15] Jodidio Ph., *Nowe formy: architektura lat dziewięćdziesiątych XX wieku"*, 1998.
[16] Jodidio Ph., *Architecture Now!*, Taschen (najnowsze wydania).
[17] Jodidio Ph., Public Architecture Now!, Taschen 2010.
[18] Koziński., *Projektowanie obiektów handlowych,* Warszawa 1973.
[10] Matthews G., *Museums and Art Galleries*, 1991.
[11] Popławski B., *Projektowanie szkół wyższych*, 1982
[12] Neufert E., *Podręcznik projektowania architektoniczno-budowlanego*, Warszawa 2011.
[13] *Rozporządzenie Ministra Infrastruktury z dnia 12 kwietnia 2002 r. w sprawie warunków technicznych, jakim powinny odpowiadać budynki i ich usytuowanie.* (Dz. U. nr 75, poz. 690; z późniejszymi zmianami).
[14] Omilanowska M., *Świątynie handlu. Warszawska architektura komercyjna doby wielkomiejskiej*, Warszawa 2004.
[15] Rattenbury K., Bevan R., Long K., Architects Today. Laurens King Publishing 2004.
[16] *Urządzenia sportowe, planowanie, projektowanie, użytkowanie*, praca zbiorowa pod redakcją R. Wirszyłło, 1982.
[17] Thompson G., *Planning and Design of Library Buildings*, 1991.

ADDITIONAL LITERATURE:

[4] Aktualne czasopisma architektoniczne polskie i zagraniczne np. *Architektura & Biznes*, *Architektura – Murator*
[5] Aktualne wydawnictwa tematyczne i dostępne wytyczne do projektowania poszczególnych typów obiektów.
[6] Ujma-Wąsowicz K., *Ergonomia w architekturze*, 2005

COURSE ADVISOR (NAME, SURNAME, E-MAIL)

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EQUIVALENCY MATRIX OF LEARNING OUTCOMES FOR COURSE
ARCHITECTURAL DESIGN 1 - COMMERCIAL ARCHITECTURE
WITH THE LEARNING OUTCOMES FOR ARCHITECTURE AND URBAN PLANNING MAJOR

Course learning outcome	Relation of course outcome with learning outcomes formulated for the major	Course objectives	Curriculum content	No. of teaching tool
PEK_W01 (knowledge)	**K2AiU_W02** **K2AiU_W04**	C1	Lec1-Lec7	N1, N2, N3
PEK_U01 (skills)	**K2AIU_U04** **K2AiU_U05**	C2	Pr1-Pr7	N1, N2, N3, N5
PEK_K01 (competencies)	**K2AIU_K05**	C1, C2	Lec1-Lec7	N1, N2, N3
PEK_K02	**K2AIU_K02**	C1, C2	Pr1-Pr7	N6, N4
PEK_K03	**K2AIU_K04**	C1, C2	Lec1-Lec7	N1, N2, N3

FACULTY OF ARCHITECTURE

COURSE SYLLABUS

STRUCTURES IN CONTEMPORARY ARCHITECTURE 1

Course title in English
Academic major: Architecture and Urban Planning
Study cycle and study mode: Second cycle, full-time and part-time
Course type: obligatory
Course code AUA 100487W, AUA 100486S
Group of courses No

	Lecture	Tutorial	Lab	Project	Seminar
Total number of contact hours	15				30
Number of student workload hours	30				60
Grading policy	pass with grade				pass with grade
Mark (X) for final course in a group of courses					
ECTS points:	1				2
Including ECTS points for contact hours (CH)	1				2

PREREQUISITES RELATING TO KNOWLEDGE, SKILLS AND OTHER COMPETENCIES

3. Demonstrate basic knowledge necessary to understand the static-strength issues in the design and development of steel, concrete and wood structures.
4. Analyze the architectural structures with regard to used structural solutions
5. Identify structural system of a structure.

COURSE OBJECTIVES

C1 - To introduce students to the problems of interdependence of architectural form and structural system
C2 - To acquaint students with the most important structural systems used in contemporary architecture
C3 - To present problems related to developing and building structures with the application of flexible materials – membranes and cables
C4 - To introduce students to the principle of developing and designing structures with the application of shell and disc structures
C5 - To equip students with skills in evaluating the usability scope of applying individual structural systems in specific design tasks
C6 - To equip students with skills in analyzing contemporary works of architecture with regard to dependencies on the applied structural system and evaluating the correctness of choosing this system.

COURSE LEARNING OUTCOMES

Related to knowledge:

PE_W01 Demonstrate systematic knowledge of developing architectural forms based on structural systems
PE_W02 Understand the interdependence of architectural form and structural system of a structure

PE_W03 Identify basic structural systems
PE_W04 Demonstrate the current knowledge and the latest trends in structural systems of contemporary architecture.
PE_W05 Understand the influence of element shape on their structural characteristics
PE_W06 Understand the importance and identify principles of determining the transfer of forces structural systems

Related to skills:

PE_U01 Demonstrate the ability to retrieve information from literature of the subject, databases and other sources, draw conclusions and formulate and justify opinions, and interpret such information in the form of freehand drawings
PE_U02 Analyze contemporary works of architecture with regard to dependencies on the applied structural system and evaluating the correctness of choosing this system.
PE_U03 Evaluate the usability of applying different structural systems in specific design tasks
PE_U04 Appropriately develop the form of membrane structures
PE_U05 Appropriately develop the form of shell structures
PE_U06 Appropriately develop the form of disc structures

Related to social competencies:

PE_K01 Understand the need and describe the methods of cooperation between architect and structural engineer
PE_K02 Demonstrate awareness of the responsibility of the architect for the interdisciplinary effect of developing architectural forms

CURRICULUM CONTENT		
Mode of teaching - lectures		**Number of hours**
Lec1	Structural system. Interdependence of architectural and structural form.	2
Lec2	Review of the most important structural systems. Logic of flow of construction forces.	2
Lec3	Developing structures with the application of flexible elements – review and basics.	2
Lec4	Problems in designing and implementation of membrane structures.	2
Lec5	Designing cable and cable-rod constructions.	2
Lec6	Developing shell constructions.	2
Lec7	Developing shell and arched constructions.	2
Lec8	Organic structural forms	1
	Total hours	**15**

Mode of teaching - seminar		**Number of hours**
Se1	Understanding of structural system.	2
Se2	Minimal surfaces - modelling practice.	2
Se3	Developing membrane constructions – modelling practice.	2
Se4	Developing cupolas and shells – modelling practice.	2
Se5	Spatial rod structures – basics of creating.	2
Se6	Spatial rod structures – modelling practice.	2
Se7	Structural system in structures of selected designers, pt.1	2
Se8	Structural system in structures of selected designers, pt.2	2

Se9	Structural system in structures of selected designers, pt.3	2
Se10	Structural system in structures of selected designers, pt.4	2
Se11	Structural system in structures of selected designers, pt.5	2
Se12	Structural system in structures of selected designers, pt.6	2
Se13	Structural system in structures of selected designers, pt.7	2
Se14	Structural system in structures of selected designers, pt.8	2
Se15	Innovation in developing the structural system	2
	Total hours	**30**

TEACHING TOOLS
N1. for lecture: Expository lecture with elements of problem-solving lecture.
N2. for lectures and seminar: multimedia presentation.
N3. for seminar: modelling workshop.
N4. for seminar: consultation and interactive seminar.

ASSESSMENT OF ACHIEVEMENT OF LEARNING OUTCOMES

Lecture		
Assessment (F – formative (during the semester), S – summative (at the end of semester)	Number of learning outcome	Method of assessing the achievement of learning outcome
P1	PE_W01, PE_W02, PE_W03, PE_W04, PE_W05, PE_W06, PE_K01	Final grade for test
Seminar		
F1	PE_U04, PE_U05, PE_U06	Assessment of involvement in modelling workshop
F2	PE_W04, PE_U01, PE_U02, PE_U03	Assessment of the content quality of the presentation
F3	PE_U03, PE_K01	Grade for participation in discussions
F4	PE_U02	Assessment for prepared sketches of structural systems
P2 is the summative assessment based on assessments F1 ÷ F4		

BASIC AND ADDITIONAL LITERATURE

BASIC LITERATURE:

[45] Balmond C., *Informal*. Prestel, Münich 2007
[46] Bechthold M., *Innovative Surface Structures*, Taylor & Francis, London 2009
[47] Berger H., *Light Structures. Structures of Light*, Birkhäuser, Basel 1995
[48] LeCuyer A., *Steel and Beyond,* Birkhäuser, Basel 2003
[49] Hensel M., Menges A., *Michael Weinstock: Emergence – Morphogenetic Strategies,* Wiley-Academy, Chichester 2004
[50] Fischer J., *Beton, Béton, Concrete,* h.f.ullmann Verlag, Potsdam 2008
[51] Motro R., *Tensegrity. Structural Systems for the Future,* Kogan Page Ltd. London 2003
[52] Otto F., *Das Gesamtwerk. Leicht Bauen Natürlich Gestalten,* Birkhäuser, Basel 2005
[53] Pottmann H., Asperl A., Hofer M., Kilian A., *Architectural Geometry,* Bentley Institute Press, 2007

[54] Sakamoto T., Ferré A., *From Control to design. Parametric/Algorithmic Architecture,* Actar-D, New York 2010
[55] Scheck H-J., *Soft Shells. Design and Technology of Tensile Architecture,* Birkhäuser, Basel 1997
[56] Schleifer S., *Spectacular Buildings,* Evergreen Taschen, Köln 2007
[57] Senosiain J., *Bio-Architecture,* Architectural Press, Elsevier, Oxford 2003

ADDITIONAL LITERATURE:

[33] Brownell B., *Transmaterial 3,* Princeton Architectural Press, New York 2010
[34] Heartney E., *Kenneth Snelson – Forces Made Visible,* Hudson Hills Press LLC, Lenox 2009
[35] Holgate A., *The Art of Structural Engineering: The Work of Jörg Schlaich and His Team,* Edition Axel Menges, Stuttgart/London1997
[36] Iori T., *Pier Luigi Nervi,* Motta Architettura, Milan 2009
[37] Jodido P., *Calatrava,* Taschen, Köln 2005
[38] Kawaguchi M., *Structural Engineer,* Universitat Politecnica de Valencia 2009
[39] Sławińska J., *Ekspresja sił w nowoczesnej architekturze*, Warszawa 1997 (wyd. II).

COURSE INSTRUCTOR (NAME, SURNAME, E-MAIL)

Romuald Tarczewski PhD, romuald.tarczewski@pwr.wroc.pl
With team: Przemysław Stobiecki PhD, Waldemar Bober PhD

EQUIVALENCY MATRIX OF LEARNING OUTCOMES FOR COURSE
STRUCTURES IN CONTEMPORARY ARCHITECTURE 1
WITH THE LEARNING OUTCOMES FOR ARCHITECTURE AND URBAN PLANNING MAJOR
AND SPECIALIZATIONS: ARCHITECTURE, URBAN PLANNING

Course learning outcome	Relation of course outcome with learning outcomes formulated for the major	Course objectives	Curriculum content	No. of teaching tool
PE_W01	S2AR_W02	C1, C2, C5, C6	Lec1, Lec2, Se1	N1, N2, N4
PE_W02	S2AR_W02	C1, C2, C5	W1, W2 Se1 – Se6	N1, N2, N3, N4
PE_W03	S2AR_W02	C2, C6	W1, W8 S2, S6	N1, N2, N3, N4
PE_W04	S2AR_W02	C2, C3, C4, C5	W1, W8 Se2, Se7 – Se15	N1, N2, N3, N4
PE_W05	S2AR_W02	C2, C6	W1, W8 Se2 – Se6	N1, N2, N3, N4
PE_W06	S2AR_W02	C2, C5	W2, Se1 – Se6	N1, N2, N3, N4
PE_U01	S2AR_U01	C2, C5, C6	Se7 – Se14	N2, N4
PE_U02	S2AR_U01	C1, C2, C6	W2, Se7 – Se14	N1, N2, N4
PE_U03	S2AR_U01	C1, C2, C5, C6	W1, W8 Se1 – Se6	N1, N2, N3, N4
PE_U04	S2AR_U01	C3, C5	W4, Se2, Se3	N1, N2, N3, N4
PE_U05	S2AR_U01	C4, C5	W6, Se4 – Se6	N1, N2, N3, N4
PE_U06	S2AR_U01	C4, C5	W7, Se4	N1, N2, N3, N4
PE_K01	S2AR_K01	C1, C6	W1, W8 Se1 – Se15	N1, N2, N3, N4
PE_K02	S2AR_K01	C1, C6	W1, W8 Se1 – Se15	N1, N2, N3, N4

OTHER USEFUL INFORMATION ABOUT THE COURSE (optional)
During seminars throughout the entire course four elements are assessed (F1 ÷ F4): assessment of the involvement in modelling workshops, assessment of the subject matter of the prepared presentations, assessment of participation in discussion, assessment of prepared sketches of structural systems. This serves as the basis for the final grade P2.

FACULTY OF ARCHITECTURE

COURSE SYLLABUS
ADVANCED SYSTEMS OF URBAN COMMUNICATION AND ENGINEERING

Course title in English Advanced Communications and Transportation Engineering Systems
Academic major: **ARCHITECTURE AND URBAN PLANNING**
Specialization: **Urban Planning**
Study cycle and study mode: second cycle, full-time
Course type: obligatory
Course code AUA 000022W, AUA 000022S
Group of courses No

	Lecture	Tutorial	Lab	Project	Seminar
Number of contact hours	15				30
Number of student workload hours	30				60
Grading policy	pass with grade				pass with grade
Mark (X) for final course in a group of courses					
ECTS points:	**1**				2
including ECTS points for practical hours (P)					
including ECTS points for contact hours (CH)	1				2

PREREQUISITES RELATING TO KNOWLEDGE, SKILLS AND OTHER COMPETENCIES

6. Knowledge of basic concepts of technical infrastructure in urbanized areas with respect to design and use of road structures and urban engineering.

COURSE OBJECTIVES

C5 - To introduce students to the modern and complex systems of communication and traffic organization and the principles of mass and specialist transportation.
C2 - To introduce students to issues of water engineering .
C3 – To develop the ability of development and presentation of the effects of their own research and analytical work on modern and complex communication systems and traffic management, public and specialist transport and water engineering.
C4 – To understand the importance of advanced knowledge in the field of technical infrastructure in urban design.

COURSE LEARNING OUTCOMES
Related to knowledge: PEK_W01 Demonstrate knowledge of modern and complex systems of communication and organization of traffic. PEK_W02 identify and characterize modern and complex systems of public and specialized transport. PEK_W03 Demonstrate general knowledge of water engineering **Related to skills:** PEK_U01- Demonstrate the ability to develop and present the effects of research and analytical work on modern and complex communication systems and traffic management, public and specialist transport and water engineering. **Related to social competencies:** PEK_K01 Demonstrate awareness and understanding of the consequences urban planning work,

CURRICULUM CONTENT		
Mode of teaching - lectures		**Number of hours**
Lec1	Overview of the scope of lectures, course structure, course completion requirements, and literature . Review of concepts, revision of urban engineering and technical infrastructure.	1
Lec2	Overview of communication policy. The role of communication in spatial planning hierarchy of communication networks, international communication corridors, network of motorways and national roads	1
Lec3	Regional and local communication systems. Communication systems for spatial structures in cities.	1
Lec4	Development of communication areas the streets and junctions, systems for commercial and residential complexes.	1
Lec5	Communication supply facilities; Parking needs, location and function of parking lots, designing parking spaces and parking lots Multi-storey parking lots in residential and commercial areas.	1
Lec6	Facilities for communication resource base - continued Service stations in investment areas. Communication systems for bus stations. Public transport stops. Car and tram depots. Airports organization of traffic.	1
Lec7	Advanced systems of communication – traffic engineering	1
Lec8	Advanced systems of communication - cont Parking systems; principles of designing systems P+R, B+R.	1
Lec9	Advanced systems of communication - Parking systems; principles of designing systems P+R, B+R - cont	1
Lec10	Advanced systems of communication - Principles of designing traffic calming zones - *woonerf* system.	1
Lec11	Advanced systems of communication - Integrated transfer nodes – traffic organization system, PRT.	1
Lec12	Water engineering in urban areas. Basic concepts and definitions in the field of water management and hydraulic engineering, design and operation of hydro-technical facilities.	1
Lec13	Water engineering in urban areas - cont The course and characteristics of floods, counteracting effects of floods in urbanized areas designing facilities and spatial development in areas threatened by floods - cont	1
Lec14	Water engineering in urban areas. The course and characteristics of floods, counteracting effects of floods in urbanized areas designing facilities and spatial development in areas threatened by floods - cont	1
Lec15	Revision. Lecture credit.	1

	Total hours	**15**

Mode of teaching - seminar		**Number of hours**
Se1	Presentation of the scope of the seminar work, selection of topics. Discussion and common problem analysis.	2
Se 2	Presentations of students' studies on a chosen topic - discussion.	2
Se 3	Presentations of students' studies on a chosen topic - discussion.	2
Se 4	Presentations of students' studies on a chosen topic - discussion.	2
Se 5	Presentations of students' studies on a chosen topic - discussion.	2
Se 6	Presentations of students' studies on a chosen topic - discussion.	2
Se 7	Presentations of students' studies on a chosen topic - discussion.	2
Se 8	Presentations of students' studies on a chosen topic - discussion.	2
Se 9	Presentations of students' studies on a chosen topic - discussion.	2
Se 10	Presentations of students' studies on a chosen topic - discussion.	2
Se 11	Presentations of students' studies on a chosen topic - discussion.	2
Se 12	Presentations of students' studies on a chosen topic - discussion.	2
Se 13	Presentations of students' studies on a chosen topic - discussion.	2
Se 14	Presentations of students' studies on a chosen topic - discussion.	2
Se 15	Presentations of students' studies on a chosen topic - discussion.	2
	Total hours	**30**

TEACHING TOOLS
N1. Expository lecture with elements of problem-solving lecture. N2. Multimedia presentations N3. Interactive lecture and seminar N4. Consultations. N5. Individual work – preparation for seminar. N6. Individual work – study and preparation for the test.

ASSESSMENT OF ACHIEVEMENT OF LEARNING OUTCOMES

Lecture

Assessment (F – formative (during the semester), S – summative (at the end of semester)	Number of learning outcome	Method of assessing the achievement of learning outcome
P Final grade for final test		

Seminar

Assessment (F – formative (during the semester), S – summative (at the end of semester)	Number of learning outcome	Method of assessing the achievement of learning outcome
F1	PEK_U01, PEK_K01	Assessment of the content quality of presentation.
F2	PEK_W01, PEK_W02, PEK_W03, PEK_K01	Assessment of active participation in discussions ..
P - Final grade for seminar (weighted average: active participation in discussions – 25% , for presentation - 75%).		

BASIC AND ADDITIONAL LITERATURE

BASIC LITERATURE:

[1] Marian Tracz, Janusz Chodur, Stanisław Gaca: Guidelines for the design of road junctions, EKODROGA commissioned by. GDDP, Warszawa 2001.;
[2] Ryszard Krystek – praca zbiorowa: Węzły ogowe i autostradowe, WkiŁ '98. PhD
[3] Kruczkowski J., Planowanie, budowa i oznakowanie lokalnych i ponadlokalnych tras rowerowych, Materiały z I Ogólnopolskiej Konferencji "Drogi rowerowe - ważny element układu komunikacyjnego regionów, miast i gmin", ABRYS Poznań 9-10 marca 1999 r.;
[4] Elżbieta Nachlik, Stanisław Kostecki, Wiesław Gąsek, Renata Stochmal: Strefy zagrożenia powodziowego, BŚ, Wrocław 2000.

ADDITIONAL LITERATURE:

[19] Kopta T., Techniczne środki uspokojenia ruchu, Transport Miejski nr 6/86.;
[20] Nowotka W. T., Dobiecki A., Uździalewicz Z., Ogólnomiejski System Dróg Rowerowych, 1997.;
[21] Rozp.Min.Infrastruktury z 16.I.2002 w sprawie przepisów techniczno-budowlanych dotyczacych autostrad płatnych.;
[22] Burnewicz j.: Prediction of transport demand in Poland up to 2013 and 2020. Sopot, październik 2004.;
[23] Grzelec K.: Integracja komunikacji miejskiej w aglomeracjach miejskich, Transport Miejski, 2003, nr 5.

COURSE ADVISOR (NAME, SURNAME, E-MAIL)

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EQUIVALENCY MATRIX OF LEARNING OUTCOMES FOR COURSE
ADVANCED SYSTEMS OF URBAN COMMUNICATION AND ENGINEERING
WITH THE LEARNING OUTCOMES FOR ARCHITECTURE AND URBAN PLANNING MAJOR
And Urban Planning Specialization

Course learning outcome	Relation of course outcome with learning outcomes formulated for the major and concentration	Course objectives	Curriculum content	No. of teaching tool
PEK_W01 (knowledge)	K2AiU_W06, S2U_W03, S2U_W06	C1	Lec1-Lec11, Lec15	N1, N2, N3, N6
PEK_W02	K2AiU_W06, S2U_W03, S2U_W06	C1	Lec1-Lec11, Lec15	N1, N2, N3, N6
PEK_W03	K2AiU_W06, S2U_W03, S2U_W06	C2	Lec12-Lec15	N1, N2, N3, N6
PEK_U01 (skills)	K2AiU_U03, S2U_U14, S2U_U04	C3	Se1-Se15	N2, N3, N4, N5
PEK_K01 (competencies)	K2AiU_K03, S2U_K02	C4	Lec1 – Lec15, Se1 - Se15	N1, N6

Annex no 4 to ZW 33/2012

FACULTY OF ARCHITECTURE

COURSE SYLLABUS

Course title in Polish **ARCHITEKTURA EKOLOGICZNA**
Course title in English **ECOLOGICAL ARCHITECTURE**
Academic major: **ARCHITECTURE AND URBAN PLANNING**
Specialization: **ARCHITECTURE**
Course level and study mode: **Second cycle, full-time / part-time**
Course type: **obligatory**
Course code **AUA 000012W, AUA 000012P**
Group of courses **No**

	Lecture	Tutorial	Lab	Project	Seminar
Number of contact hours	15			45	
Number of student workload hours	20			150	
Grading policy	pass with grade			pass with grade	
Mark (X) for final course in a group of courses					
ECTS points:	1			3	
including ECTS points for practical hours (P)				3	
including ECTS points for contact hours (CH)	1			1	

PREREQUISITES RELATING TO KNOWLEDGE, SKILLS AND OTHER COMPETENCIES

7. none

COURSE OBJECTIVES

C1 – to acquaint students with architectural tasks related to sustainable development
[elementary knowledge of ecological and carbon footprint and the possibilities of their reduction by implementing appropriate technological and material solutions in architecture]
C2 – to introduce students to basic concepts of integrated design with account being taken of basic functional relations between the facility under design and the environment,
[elementary knowledge of contemporary ecological buildings, examples of best practices]
C3 – to develop skills in creating designs with account being taken of their impact on the environment,
[skills: analyzing natural resources in project area, creating an ideogram of building functions in relation to the environment, formulating conceptual designs using the building life cycle and performing a framework evaluation of the impact of the building on the environment]
C4 – to teach the environmental circumstances of professional ethics,
[social competencies: understanding the role of sustainable development in architecture and the role of integrated design, ability to perform critical analysis of projects and architectural implementation in terms of sustainable development]

COURSE LEARNING OUTCOMES

Related to knowledge:

PEK_W01 — demonstrate elementary knowledge of the sustainable architecture paradigm, explain trends in developing sustainable architecture and describe examples of best practices.

PEK_W02 — understand the relationships and dependencies between the building and the environments throughout the building's life cycle,

PEK_W03 — recognizes basic aspects of environmental behaviors of man.

Related to skills:

PEK_U01 — analyze the natural resources and threats to the environment at the scale of the plot and its immediate surroundings; for the purposes of architectural concept, creatively use the results of analyses in relation to reviews of literature of the subject,

PEK_U02 — appropriately define the environmental priorities in relation to the designing assignment and formulate an ideogram of the eco-functional relations between the building and the environment.

Related to social competencies:

PEK_K01 — understand the importance of dialog and social participation in architectural design, express their own opinion and clearly present it in a public debate.

PEK_K02 — students can work in a project team.

CURRICULUM CONTENT		
Mode of teaching - lectures		**Number of hours**
Lec 1	Paradigms of architecture in 20th and 21st centuries. Ecological footprint and carbon footprint in the context of architecture.	1
Lec2	Life cycle of a building and the main criterions of evaluating sustainable architecture structures.	1
Lec 3	The concept of architecture as part of the human habitat. Ecophysiography in architectural design	1
Lec 4	Bill Dunster and BedZED - analysis of model examples of ecological architecture.	1
Lec 5	Environmental aspects of ecological architecture. 1) Criterions for choosing a location. Compact, disassemblable, underground development 2. The role of biologically active spaces. Environmental compensation in architecture. Emilio Ambasz and Marek Budzyński as the creators of „green architecture".	1
Lec 6	3. Natural water barrier to development. Grey water and rainwater management. Rain gardens. Herberta Dreiseitl's waterscapes. Architecture on land susceptible to flooding. Dutch examples.	1
Lec7	4. Ecology as economics of nature. Building materials and waste management. Energy-saving and energy-plus architecture.	1
Lec 8	5. Climate development: noise, ventilation, heat islands.	1
Lec 9	Economic aspects of sustainable architecture. Cost-efficient building engineering.	1
Lec10	Risk management in architecture.	1
Lec 11	Social aspects of sustainable architecture. Territoriality of human behavior. Private and public spaces. The work of Joachim Eble. EVA Lanxmeer.	1
Lec 12	Standards of safe space.	1

Lec 13	Tools for controlling sustainable development. Certificates, audits.	1
Lec 14	Summary.	1
Lec 15	Final test	1
	Total hours	15

Mode of teaching - project		**Number of hours**
Pr1	Scope of the project, course completion requirements, literature. Overview and choice of project topics.	1
Pr2	Collaborative assignment: review of planning intentions (zoning plan, land-use plan) for the project area. Analysis of natural resources within the plot.	2
Pr3	Collaborative assignment: Studies of the literature of the subject and design inspirations. Building/house on a plot as an ecosystem (brainstorm, analysis of the life cycle of a building) Recording of ideas. Public presentation of results.	3
Pr4	Description, analysis and evaluation of location constraints of the building - submission of collaborative assignments. Individual assignment to design a concept of a house understood as an ecosystem. Block diagrams. In-class assignment.	3
Pr5	Individual assignment to design a concept of a house understood as an ecosystem. Concept of a structure in connection with the plot. In-class assignment. Public presentation of results.	3
Pr6	Description and analysis of design inspirations (examples of best practices). Adopted design requirements – submission of individual assignment no 1. Individual assignment to design a concept of a house understood as an ecosystem. Consultations.	3
Pr7	Individual assignment to design a concept of a house understood as an ecosystem. Parametric assessment. Consultations.	3
Pr8	Review and presentation of randomly selected conceptual designs. Comparative discussions. Assessment of the degree of self-sustainability. The search for cost-effective solutions. The choice of criterions for environmental evaluation.	3
Pr9	Individual assignment. Cheap building/house. Verification of objectives. Consultations.	3
Pr10	Spatial model of a structure on a plot – workshop-based assignment.	3
Pr11	Review and presentation of randomly selected spatial models. Discussions on the development of „metabolic processes” in a building. Return to ideograms. Social and usability aspects.	3
Pr12	Building a spatial model of a structure on a plot. Self-critiques and consultation towards optimization of environmental, social and economic factors.	3
Pr13	Gathering of project documentation. Critiques	3
Pr14	Gathering of project documentation. Review and presentation of randomly selected projects.	3
Pr15	Presentation and submission of final documentation for the project of ecological architectural structure with land development. Credit	3

	Total hours	**45**

TEACHING TOOLS	
N1	Expository lecture with multimedia presentation.
N2	Problem solving lecture with multimedia presentation.
N3	Filed trip to the project area
N4	Presentations of projects (multimedia or traditional) by students – in front of class and in public.
N5	Interactive lecture and project
N6	Project workshop with discussions.
N7	Preparation of project documentation (description and drawings) in printed form and as a digital copy
N8	
N9	Individual consultation.

ASSESSMENT OF ACHIEVEMENT OF LEARNING OUTCOMES

Assessment (F – formative (during the semester), S – summative (at the end of semester)	Number of learning outcome	Method of assessing the achievement of learning outcome
F1	PEK_U01 PEK_K02	Assessment of the analytical part of the project: scope of analysis, validity of conclusions, methods of calculating indices
F2	PEK_U02 PEK_K01	Assessment of the quality of content and the aesthetics of presentations with results of work
F3	PEK_W01 PEK_U02	Conformity assessment of proposed design solution for ecological architecture with: 1. objectives of sustainable development 2. conclusion of the analytical part
F4	PEK_W01, W02, PEK_U01, U02	Final test result for lectures
P		Weighted average: (F1x0,4+F2x0,2+F3x0,4)x0,6+F4x0,4

BASIC AND ADDITIONAL LITERATURE

BASIC LITERATURE:

[1] Duran S. C., *Green Homes.* Collins Design 2007,
[2] *Ecological Houses*, Te Neues 2000,
[3] Jodidio Ph., *Architecture Now! Green Architecture*. Taschen 2009,
[4] Jodidio Ph., *Architecture : Nature*. Prestel. Munich, Berlin, London, New York 2006,
[5] Mikoś J., *Budownictwo ekologiczne*, Wydawnictwo Politechniki Śląskiej, Gliwice 2000,
[6] Uffelen Ch., *Ecological Architecture*. Brown 2009,
[7] Wines J., *Zielona Architektura*. Taschen 2008,
[8] Materiały szkoleniowe GBC, LEED, BREEM, Ecohomes i in. (zasoby internetowe)
[9] Ustawy, akty prawne, strategie krajowe i sektorowe.

ADDITIONAL LITERATURE:

[40] Bielecki Cz., *Gra w miasto,* Warszawa 1996
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[43] Gauzin-Müller D. *Sustainable architecture and urbanism.* Birkhauser 2002.
[5] Green Building and Sustainable Architecture. Reference Manual. 2009.
http://architecture6.com/GREEN-BUILDING-AND-SUSTAINABLE-ARCHITECTURE-REFERENCE-MANUAL-download-w249.pdf

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EQUIVALENCY MATRIX OF LEARNING OUTCOMES FOR COURSE
ECOLOGICAL ARCHITECTURE
WITH THE LEARNING OUTCOMES FOR ARCHITECTURE AND URBAN PLANNING MAJOR
AND CONCENTRATION IN ARCHITECTURE

Course learning outcome	Relation of course outcome with learning outcomes formulated for the major and concentration	Course objectives	Curriculum content	No. of teaching tool
PEK_W01 (knowledge)	K_W01, K_W02	C1, C2	Lec1, Lec4, Lec10	1,2,5
PEK_W02	K_W01, K_W02, K_W06, K_W08, K_W09, K_W12,	C1, C2	Lec2, Lec3, Lec 5-14	1,2,5
PEK_U01 (skills)	K_U01, K_U02, K_U07, K_U12, K_U19	C2, C3	Pr2 – Pr9	3-6, 8
PEK_U02	K_U01, K_U07,K_U11, K_U12, K_U19, K_U23, K_U24	C2,C3	Pr9 – Pr12	7.8
PEK_K01 (competencies)	K_U09, K_K05	C3, C4	Pr2 – Pr7 Pr10 – Pr13	3-7
PEK_K02	K_K03, K_K06	C3, C4	Pr1 – Pr13	4,5,7

FACULTY OF ARCHITECTURE

COURSE SYLLABUS

ARCHITECTURAL DESIGN 2 - DESIGNING WORK PLACES - DESIGNING FACILITIES FOR MOTORIZATION

Academic major: **ARCHITECTURE AND URBAN PLANNING**
Specialization: **Architecture, Urban planning**
Course level and study mode: **second cycle, full-time/part-time**
Course type: **obligatory**
Kod przedmiotu: **AUA000010W, AUA000010P**
Group of courses: **NO**

	Lecture	Tutorial	Lab	Project	Seminar
Total number of contact hours	15			60	
Number of student workload hours	30			120	
Grading policy	**Examination**			**pass with grade**	
Mark (X) for final course in a group of courses					
ECTS points:	2			7	
Including ECTS points for practical hours (P)				7	
Including ECTS points for contact hours (CH)	1			3	

PREREQUISITES RELATING TO KNOWLEDGE, SKILLS AND OTHER COMPETENCIES

1. KNOWLEDGE

Knowledge of technical problems related to designing and construction of architectural structures

2. SKILLS: Ability to analyze and evaluate mutual relations of the proposed structure and the surroundings. Ability to apply different technical, structural solutions and materials for presenting architectural concepts. Knowledge of computer-aided architectural design software and ability to use them.

3. OTHER COMPETENCIES: Take into consideration the non-technical aspects of designing facilities for motorization, in particular their positive and negative impact on the natural environment and design.

COURSE OBJECTIVES

C1 - To introduce students to the basic problems and specific character of designing facilities for motorization in the country and abroad

C2- To acquaint students with the influence of requirements of technological processes and technical solutions on the spatial organization of workplaces in large structures for motorization and their influence on communication solutions.

C3- To present problems of applying special structures in architecture of workplaces (in particular – of substantial span), but also modern material and installation solutions.

C4- To develop skills in characterizing and describing solutions for architectural facilities for motorization.

C5- To introduce students to the possible development prospects for developing architectural facilities for motorization resulting from predicted changes in motorization development, using new

sources of energy, sustainable development of design and management.
C6 - To develop skills in designing and presenting medium-complex architectural projects

COURSE LEARNING OUTCOMES

Related to knowledge:

PE_W01: Demonstrate systematic and theoretically grounded general knowledge of designing workplaces in facilities for motorization in an urbanized environment and in rural areas. Demonstrate rudimentary knowledge of technical problems related to designing and creating such structures.

PE_W02: Demonstrate knowledge of features of historic and contemporary architecture of workplaces, with account being taken of diversified aspects of motorization.

PE_W03: Demonstrate general knowledge of the scope and applications of OHS standards and designing hygienic-sanitary rooms in facilities for motorization. Recognize basic regulations pertaining to technical requirements for facilities for communication

PE-W04: Understand the relationships and dependencies between designing facilities for motorization and the non-technical aspects that influence the architectural and urban solutions: social aspects, ecological and environmental aspects, workplace humanization aspects, economics of investment aspects, etc.

Related to skills:

PE_U01: Integrate and creatively interpret technical and non-technical knowledge in solving design problems pertaining to the workplace at an urban and architectural scale.

PE_U02: Create a complex architectural design of a facility for motorization, which takes into consideration the functional and spatial and technical requirements: buildings, structural and installation requirements. Create a simplified technical description for the completed project and present the project.

Related to social competencies:

PE_K01: Demonstrate awareness and understanding of the importance of non-technical aspects and consequences of designing facilities for motorization , in particular the influence on the environment and quality of life contemporary society and the associated responsibility for decisions.

CURRICULUM CONTENT		
Mode of teaching - lectures		**Number of hours**
Lec1	Architecture and motorization – history of mutual inspirations (the role of Le Corbusier, Walter Gropius, Buckminster Fuller, Erich Mendelsohn, Rudolph M. Schidler, F.L. Wright and others)	2
Lec2	Plan for implementation of facilities for motorization, its components, functional zoning	2
Lec3	Car service stations - divisions according of size, representation, functional and spatial program Vehicle inspection stations - divisions, functional and spatial programming	2
Lec4	Car salons; analysis of Polish and foreign examples. General requirements, principles of developing functional system. Semiotics of the living room as commercial structure.	2

Lec5	Liquid fuel stations (FS) - general requirements, classification. Analysis of domestic and international solutions. Architectural structure and structural objectives. Breakpoints (BP), toll stations on motorways (TS) - principles of developing.	2
Lec6	Travelers Service Points (TSP). Classification - types of TSPs, functional and spatial programming, equipment, analysis of domestic and foreign examples. Structures and service equipment for traffic participants (on lower class roads).	2
Lec7	Garages and Car parks - their taxonomy, structural and architectural problems; review of Polish and foreign examples.	2
Lec8	Summary. Problems of protection of the natural environment in technical structures for motorization	1
	Total hours	**15**

Mode of teaching - project		**Number of hours**
Pr1	Choice of project topic; problems of the choice of location for facility for motorization; the course of the technological process and its impact on the spatial concept of the structure;	4
Pr2	Plot development project of the selected facilities for motorization at a scale of 1:500;	4
Pr3	Alternate proposals for development of the plot of the facilities for motorization, methods of their assessment; preliminary spatial solutions for cubic structures.	4
Pr4	Variants of spatial solutions for cubic structures.	4
Pr5	Functional zoning of selected facility for motorization	4
Pr6	Structural and material aspects of facilities for motorization	4
Pr7	The need for flexibility and adaptability of the building,	4
Pr8	Hygienic and social rooms (their programming), rooms for gastronomy in facilities for motorization,	4
Pr9	Hygienic and social rooms	4
Pr10	Communication service for facility, internal traffic, flow of materials and products,	4
Pr11	Auxiliary buildings and structures	4
Pr12	Protection against communications noise, technological solutions in terms of ecology	4
Pr13	Developing the work environment (adequate natural lighting, proper ventilation, appropriate use of color, etc.).	4
Pr14	Development of a shortened version of the technical description of the project	4
Pr15	Graphical presentation of the project.	4
	Total hours	**60**

TEACHING TOOLS
EXAMPLE: N1. for lectures: multimedia presentation, N2. for project: project presentation, consultations

ASSESSMENT OF ACHIEVEMENT OF LEARNING OUTCOMES

Lecture

Assessment (F – formative (during the semester), S – summative (at the end of semester)	Number of learning outcome	Method of assessing the achievement of learning outcome
P	PE_W01, PE_W02, PE_W03, PE_K01	Oral examination - α_1=1
P = α_1 F1 where α_1=1, Σ α = 1		

Project

Assessment (F – formative (during the semester), S – summative (at the end of semester)	Number of learning outcome	Method of assessing the achievement of learning outcome
F1	PE_U01, PE_U02, PE_K01	Assessment of the content quality of the project - α_1=0,6
F2	PE_U02	Assessment for graphic design of the project α_3=0,4
P = α_1 F1 + α_2F2, where α_1=0,6, α_2=0,4, Σ α = 1		

BASIC AND ADDITIONAL LITERATURE

BASIC LITERATURE:

Biedrońska J., Figaszewski J., Kozak K., Lisik A., Mikoś-Rytel W.; *Projektowanie obiektów motoryzacyjnych*, wyd. II, Wydawnictwo Politechniki Śląskiej, Gliwice 2010;

Bykowski J., Krawczyńska E.: Techniczne aspekty projektowania parkingów przy obiektach użyteczności publicznej, Drogownictwo. - 2011 nr 1 s. 8-14

Dawidowicz. L.N.: Projektowanie obiektów zaplecza technicznego transportu samochodowego, Wydawnictwa Komunikacji i Łączności Warszawa, 1975,

Dumnicki J., Laskus E.: Budownictwo zaplecza samochodowego, Instytut Urbanistyki i Architektury (Seria: Budownictwo Komunikacyjne w Mieście), „Arkady", Warszawa, 1970,

Dumnicki J., Kreczmar J.: Samochód w osiedlu: zasady programowania, lokalizowania i kształtowania obiektów obsługi samochodów na terenach mieszkaniowych, Instytut Kształtowania Środowiska, Warszawa 1978;

Dumnicki J., Kreczmar J., Remisz L.S.: Parkingi w miastach, Wydawnictwa Komunikacji i Łączności, Warszawa 1979

Friedemann W.: Kraftfahrzeugbetriebe (Seria: Entwurf und Planung 18), Verlag Georg D.W. Callwey, München, 1973;

Gradkowski K.: Wielopoziomowe budowle parkingów w dużych miastach, Przegląd Komunikacyjny, 2009, nr 4, s. 41-47;

Hauser J.: Zaplecze motoryzacji jako element zespołów osiedleńczych (Seria: Prace Naukowe Instytutu Architektury i Urbanistyki Politechniki Wrocławskiej Monografie; Nr 5), Wydawnictwo Politechniki Wrocławskiej, Wrocław 1978;

Korzeniewski W.: Parkingi i garaże dla samochodów osobowych : wymagania techniczno-prawne, Centralny Ośrodek Informacji Budownictwa, Warszawa 1997;

Kosiorek M.: Wymagania bezpieczeństwa pożarowego dla garaży, Materiały Budowlane. 1998 nr 7 s. 52-53;

Marchwiński J.: Miejsca obsługi podróżnych (MOP). Urbanistyczny i architektoniczny aspekt ich kształtowania, Magazyn Autostrady 2006 nr 3, s.20-26;

Maryański A.: Stacje obsługi samochodów: projektowanie i modernizacja, Wydawnictwa Komunikacji i Łączności, Warszawa 1981;

Michalak H.: Rozwiązanie funkcjonalne i konstrukcyjne garaży wielokondygnacyjnych a efektywność wykorzystania ich powierzchni, Inżynieria i Budownictwo. 2006 nr 5 s. 251-254
Michalak H.: Garaże wielostanowiskowe : projektowanie i realizacja, Wyd. „Arkady", Warszawa, 2009;
Sukniewicz D.: Systemy wielopoziomowego parkowania, Architektura. Murator, 1999 nr 11 s. 89-93;
Ślusarczyk J.: Identyfikacja i ocena nieprawidłowości występujących w parkingach wielopoziomowych, Przegląd Budowlany. - 2011 nr 1 s. 34-39;

Zasady projektowania zdolności usługowych i wielkości podstawowych urządzeń MOP, [w:] Instrukcja zagospodarowania dróg, GDDP, Warszawa 1977, s. 19-26;

Dz.U. 2006.40.0275 (2006.03.10) - rozporządzenie MTiB z dnia 10.02.2006 r. - w sprawie szczegółowych wymagań w stosunku do stacji przeprowadzających badania techniczne pojazdów
Dz.U. 2007.35.200 Rozporządzenie Rady Ministrów z dn. 15.05.2004 r. w sprawie sieci autostrad i dróg ekspresowych

ADDITIONAL LITERATURE:

Henn W., Henn H.: *Obiekty socjalne w zakładach przemysłowych*, Arkady, Warszawa 1974;
Niezabitowska E.: *Architektura i przemysł. Nowe spojrzenie,* Śląsk, Katowice 1997;
Szparkowski Z.: *Architektura współczesnej fabryki*, Oficyna Wydawnicza Politechniki Warszawskiej, Warszawa 1999;

COURSE INSTRUCTOR (NAME, SURNAME, E-MAIL)

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EQUIVALENCY MATRIX OF LEARNING OUTCOMES FOR COURSE
ARCHITECTURAL DESIGN 2 - DESIGNING WORK PLACES - DESIGNING FACILITIES FOR MOTORIZATION
WITH THE LEARNING OUTCOMES FOR ARCHITECTURE AND URBAN PLANNING MAJOR

Learning outcome	Relation of given outcome with learning outcomes formulated for the major	Course objectives	Curriculum content	Number of teaching tool	Assessment method
PE_W01	**K2AiU_W04**	C1, C2,C3, C5	Lec2-Lec8	N1	F1,P1
PE_W02	**K2AiU_W04**	C1, C2,C3, C5,	Lec1	N1	F1,P1
PE_W03	**K2AiU_W04**	C1, C2,C3, C5,	Lec3	N1	F1,P1
PE_W04	**K2AiU_W04**	C1, C2,C3, C5,	Lec8,	N1	F1, P1
PE_U01	**K2AiU_U05**	C2,C3, C4, C5,C6	Pr2 – Pr13, Lec1- Lec8	N1,N5	F2,F3, P2
PE_U02	**K2AiU_U05**	C2,C3, C4, C5,C6	Pr1 – Pr14, Lec2- Lec8	N1,N5	F2,F3, P2
PE_K01	**K2AIU_K03**	C1, C2,C3, C4, C5,C6	Pr12, Pr13,Lec8	N1,N5	(w ocenach)P1, F1,F2,F3, P2

Zał. nr 4 do ZW 33/2012

FACULTY OF ARCHITECTURE

COURSE SYLLABUS
CONSERVATIONAL DESIGN 2 - REVALUATION OF URBAN COMPLEXES

Academic major: ARCHITECTURE AND URBAN PLANNING
Specialization: Architecture
Study cycle and study mode: Second cycle, full-time / part-time
Course type: obligatory
Course code AUA000011P
Group of courses No

	Lecture	Tutorial	Lab	Project	Seminar
Number of contact hours				45	
Number of student workload hours				90	
Grading policy				pass with grade	
Mark (X) for final course in a group of courses					
ECTS points:				3	
including ECTS points for practical hours (P)				3	
including ECTS points for contact hours (CH)				1	

PREREQUISITES RELATING TO KNOWLEDGE, SKILLS AND OTHER COMPETENCIES

8. KNOWLEDGE Consolidation of knowledge of history of architecture and urban planning
9. SKILLS: Retrieving information from databases and the interpretation and presentation of such information,
10. COMPETENCIES: Evaluate architecture in terms of aesthetic, historical, functional and technical values.

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COURSE OBJECTIVES

C1. To present the values of historical urban complexes and their potential to adapt to modern needs
C2 To underline the proper relationship between newly designed architecture and the historical context

COURSE LEARNING OUTCOMES

Related to knowledge:

PEK_W01 Demonstrate knowledge of the processes governing the transformation of the architectural fabric in urban complexes.

PEK_W02 Define the rules governing the relationship between new architecture and the historical context.

Related to skills:

PEK_U01 Define the problems associated with the regeneration of historic urban and architectural complexes and act in accordance with the principles of ensuring the continuity of cultural heritage

PEK_U01 Demonstrate skills in designing contemporary architectural form and introducing new function into historic urban fabric

Related to social competencies:

PEK_K01 Demonstrate awareness of the circumstances resulting from the adaptation of historic urban complexes to new needs

PEK_K02 Recognize the qualities of historic architecture in the urban organism.

PEK_K03 Demonstrate awareness of the responsibility of the architect for preserving and protecting the historic identity of a place.

CURRICULUM CONTENT

Mode of teaching - project		Number of hours
Pr1	Assignment and overview of topics for project tasks. Overview of the course completion requirements.	3
Pr2	Development of the valorization of the object of design study	3
Pr3	Presentation by students of the valorization of the object of design study. Development of design intent.	3
Pr4	An analysis of the historical architectural transformations of the object of the design study	3
Pr5	Development of the valorization of the technical and functional condition of the object of the design study	3
Pr6-9	Preparation of architectural and urban design concept for the area which is the subject of the study. Consultations, critiques.	12
Pr10	Review, discussion and evaluation of project solutions prepared at and architectural and urban scale.	3
Pr11-14	Development of the architectural concept of a fragment of the aforementioned project. Consultations, critiques.	12
Pr15	Summary Review, discussion and evaluation of project solutions.	3
	Total hours	**45**

TEACHING TOOLS

N1. notebook
N2. projector
N3. monitor

ASSESSMENT OF ACHIEVEMENT OF LEARNING OUTCOMES

Assessment (F – formative (during the semester), S – summative (at the end of semester)	Number of learning outcome	Method of assessing the achievement of learning outcome
F1 attendance		Checking of attendance
F2. Presentation		Assessment for preparation and delivery of presentation
F3 project		Graded project
P	Total grade P = F1x0,2 + F2x0,2 + F3x0,6	

BASIC AND ADDITIONAL LITERATURE

BASIC LITERATURE:

Adaptacja obiektów zabytkowych do współczesnych funkcji użytkowych, red.B.Szmygin, Warszawa-Lublin 2009

CZERNER O., *Wrocław na dawnej rycinie*, Wrocław-Warszawa-Kraków,Gdańsk-Łódź 1989.

Dziedzictwo kulturowe fundamentem rozwoju cywilizacji, Międzynarodowa Konferencja Konserwatorska (Materiały t.1-6), Kraków 2000.

KADŁUCZKA A., *Problemy integracji architektury współczesnej z historycznym środowiskiem kulturowym*, Wydawnictwa Politechniki Krakowskiej, Kraków 1982.

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MAŁACHOWICZ E., *Konserwacja i rewaloryzacja architektury w środowisku kulturowym,* Wrocław 2007.

MAŁACHOWICZ E., *Ochrona środowiska kulturowego*, t.1 i 2, Warszawa 1988.

MAŁACHOWICZ E., *Stare Miasto we Wrocławiu. Zniszczenia wojenne i odbudowa*, Wrocław 1985.

MARZĘCKI W., *Ciągłość kulturowa w kształtowaniu przestrzeni miejskiej. Charakterystyka i metoda oceny jakości i zmienności tej przestrzeni*, Szczecin 2002.

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A*tlas Architektury Wrocławia*, t. 1 i 2, Wrocław

Leksykon architektury Wrocławia, Wrocław 2011

Raport o systemie ochrony dziedzictwa kulturowego w Polsce po roku 1989, red. J. Purchla, Warszawa2000

System ochrony zabytków w Polsce - analiza, diagnoza, propozycje, red. B.Szmygin, Lublin-Warszawa 2011

Wyjątkowa uniwersalna wartość a monitoring dóbr światowego dziedzictwa, Warszawa 2011

Ikonografia Wrocławia, t. 1-2, Wrocław 2008

Archival Photographs showing the appearance of the building of Wroclaw and Silesian towns before World War II: (Internet: http://wroclaw.hydral.com.pl, Bildarchiv Foto Marburg - http://www.fotomarburg.de/) itp.)

Current architectural magazines showing current trends in the design of new architecture in historic surroundings.

ADDITIONAL LITERATURE:

Biuletyn informacyjny PKN ICOMOS, www//icomos.poland

BURGERMEISTER L., *Die Kunstdenkmäler der Stadt Breslau*, Breslau 1930-1934.

CZERNER O., *Rynek Wrocławski*, Wrocław 1976.

LUTSCH H., *Verzeichnis der Kunstdemkmäler der Provinz Schlesien*, Breslau 1886-1903.

KIRSCHKE K., *Fasady wrocławskich obiektów komercyjnych z lat 1890—1930. Faktura – kolorystyka – dekoracja*, Wrocław 2005.
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Sztuka Wrocławia, Wrocław 1967
Wrocław, jego dzieje i kultura, Warszawa 1978

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EQUIVALENCY MATRIX OF LEARNING OUTCOMES FOR COURSE
CONSERVATIONAL DESIGN 2 - REVALUATION OF URBAN COMPLEXES
WITH THE LEARNING OUTCOMES FOR ARCHITECTURE AND URBAN PLANNING
MAJOR
AND CONCENTRATION IN ARCHITECTURE

Course learning outcome	Relation of course outcome with learning outcomes formulated for the major and concentration	Course objectives	Curriculum content	No. of teaching tool
PEK_W01 (knowledge)	S2AR_W01, S2AR_W03, S2AR=W04, S2AR_W06	C1, C2	1-5, 10	N1-N3
PEK_W02	S2AR_W01 S2AR-W03, S2AR_W06, S2AR_W08	C2	1-5, 10	N1-N3
PEK_U01 (skills)	S2AR_U01, S2AR_U03	C1, C2	6-9, 11-14	N1-N3
PEK_U02	S2AR_U04	C2	6-9, 11-14	N1-N3
PEK_K01 (competencies)	S2AR_K01, S2AR-K02	C1, C2	1-15	N1-N3
PEK_K02	S2AR_K01, S2AR-K02	C1, C2	1-15	N1-N3
PEK_K03	S2AR_K01, S2AR-K02	C1, C2	1-15	N1-N3

FACULTY OF ARCHITECTURE

COURSE SYLLABUS

STRUCTURES IN CONTEMPORARY ARCHITECTURE 2

Academic major: **ARCHITECTURE AND URBAN PLANNING**
Specialization: Architecture
Study cycle and study mode: Second cycle, full-time and part-time
Course type: obligatory
Course code AUA105684Ws
Group of courses YES

	Lecture	Tutorial	Lab	Project	Seminar
Total number of contact hours	15				15
Number of student workload hours	30				
Grading policy	pass with grade				
Mark (X) for final course in a group of courses	x				
ECTS points:	2				
Including ECTS points for contact hours (CH)	2				

PREREQUISITES RELATING TO KNOWLEDGE, SKILLS AND OTHER COMPETENCIES

11. Understand the interdependence of architectural form and structural system of a structure
12. PE_W04 Demonstrate the current knowledge and the latest trends in structural systems of contemporary architecture.
13. Develop the form of the membrane structures, shell, disc and rod-cable structures.

COURSE OBJECTIVES

C2 - To acquaint students with the most important structural systems used in contemporary architecture
C2 – To acquaint students with issues of the flow of forces in different types of structures
C3 - To introduce students to the principle of developing and designing structures with the application of spatial rod structures
C4 - To equip students with skills in evaluating the usability scope of applying individual structural systems in specific design tasks
C5 - To equip students with skills in analyzing contemporary works of architecture with regard to dependencies on the applied structural system and evaluating the correctness of choosing this system.
C6 - To present of the principles of using the most important computer tools assisting the development of the structural system
C7 - To introduce students to the influence of using building materials of new generations on the forming of architectural objects

C8 – To develop the ability of preparing and presenting in a clear and visually attractive way the concept design of a structural system for a unique architectural object.

COURSE LEARNING OUTCOMES

Related to knowledge:

PE_W01 Demonstrate systematic knowledge of developing architectural forms based on structural systems

PE_W02 Understand the interdependence of architectural form and structural system of a structure

PE_W03 Identify basic structural systems

PE_W04 Demonstrate the current knowledge and the latest trends in structural systems of contemporary architecture.

PE_W05 Understand the influence of element shape on their structural characteristics

PE_W06 Understand the importance and identify principles of determining the transfer of forces structural systems

PE_W07 Identify methods of defining criteria for selecting a structural system for a given functional and spatial system

PE_W08 Identify the new generation of construction materials and understand the impact of their use on the development of architectural objects

Related to skills:

PE_U01 Demonstrate the ability to retrieve information from literature of the subject, databases and other sources, draw conclusions and formulate and justify opinions, and interpret such information in the form of freehand drawings

PE_U02 Analyze contemporary works of architecture with regard to dependencies on the applied structural system and evaluating the correctness of choosing this system.

PE_U03 Evaluate the usability of applying different structural systems in specific design tasks

PE_U04 Demonstrate the ability to propose a variant solution of the structural system for a design task

PE_U05 Demonstrate the ability to prepare a preliminary proposition of the main elements of contemporary advanced structural system

PE_U06 Appropriately develop the spatial form of rod structures

PE_U07 Demonstrate the ability to modify a structural system, to achieve its compliance with architectural form

PE_U08 Present a concept of a structural system for an architectural structure in a clear and graphically appealing manner

PE_U09 Work individually and in a team, prepare a structural system concept in accordance with the adopted work schedule

Related to social competencies:

PE_K01 Understand the need and describe the methods of cooperation between architect and structural engineer

PE_K02 Demonstrate awareness of the responsibility of architect for the interdisciplinary effect of developing architectural forms

CURRICULUM CONTENT		
Mode of teaching - lectures		**Number hours**
Lec1	Development of spatial rod structures.	2
Lec2	Cupolas and roof shells. Optimization of the form of spatial rod structures.	2
Lec3	Development of structures using the method of force streams.	2
Lec4	Rules for selection of a structural system - large-span structures.	2

Lec5	Rules for selection of a structural system - objects with irregular spatial form.	2
Lec6	Examples of new procedures for creating a structural form.	2
Lec7	Development of forms of engineering structures.	2
Lec8	New materials and their impact on the architectural form.	1
	Total hours	**15**

Mode of teaching - seminar		**Number of hours**
Se1	Development of the structural system - definition of determinants	1
Se2	Structural systems in selected architectural structures, pt.1	1
Se3	Development of the structural system - choice of inspirations	1
Se4	Structural systems in selected architectural structures, pt.2	1
Se5	Development of the structural system - creating variants of preliminary idea	1
Se6	Structural systems in selected architectural structures, pt.3	1
Se7	Development of the structural system - criteria of choice	1
Se8	Structural systems in selected architectural structures, pt.4	1
Se9	Development of the structural system - evaluation of static diagram	1
Se10	Structural systems in selected architectural structures, pt.5	1
Se11	Development of the structural system - detailing	1
Se12	Structural systems in selected architectural structures, pt.6	1
Se13	Development of the structural system - solving details	1
Se14	Structural systems in selected architectural structures, pt.7	1
Se15	Development of the structural system - analysis of final form	1
	Total hours	**15**

TEACHING TOOLS
N1. for lecture: Expository lecture with elements of problem-solving lecture. N2. for lectures and seminar: multimedia presentation. N3. for seminar: consultation and interactive seminar.

ASSESSMENT OF ACHIEVEMENT OF LEARNING OUTCOMES

Lecture		
Assessment (F – formative (during the semester), S – summative (at the end of semester)	Number of learning outcome	Method of assessing the achievement of learning outcome
P1	PE_W01, PE_W02, PE_W03, PE_W04, PE_W05, PE_W06, PE_W07, PE_W08, PE_K01	Final grade for test
Seminar		

F1	PE_U01, PE_U02, PE_U03	Assessment of the content quality of the presentation
F2	PE_U03, PE_K02	Grade for participation in discussions
F3	PE_U03, PE_U04, PE_U05, PE_U06	Assessment of skills in proposing variant solution of the structural system
F4	PE_U07, PE_U08, PE_U09, PE_K02	Assessment of the skills in evaluating and presenting of the proposed structural system
P2 is the summative assessment based on assessments F1 ÷ F4		

BASIC AND ADDITIONAL LITERATURE

BASIC LITERATURE:

[58] Balmond C., *Informal*. Prestel, Münich 2007
[59] Bechthold M., *Innovative Surface Structures*, Taylor & Francis, London 2009
[60] Berger H., *Light Structures. Structures of Light*, Birkhäuser, Basel 1995
[61] LeCuyer A., *Steel and Beyond,* Birkhäuser, Basel 2003
[62] Hensel M., Menges A., *Michael Weinstock: Emergence – Morphogenetic Strategies,* Wiley-Academy, Chichester 2004
[63] Fischer J., *Beton, Béton, Concrete,* h.f.ullmann Verlag, Potsdam 2008
[64] Motro R., *Tensegrity. Structural Systems for the Future,* Kogan Page Ltd. London 2003
[65] Otto F., *Das Gesamtwerk. Leicht Bauen Natürlich Gestalten,* Birkhäuser, Basel 2005
[66] Pottmann H., Asperl A., Hofer M., Kilian A., *Architectural Geometry,* Bentley Institute Press, 2007
[67] Sakamoto T., Ferré A., *From Control to design. Parametric/Algorithmic Architecture,* Actar-D, New York 2010
[68] Scheck H-J., *Soft Shells. Design and Technology of Tensile Architecture,* Birkhäuser, Basel 1997
[69] Schleifer S., *Spectacular Buildings,* Evergreen Taschen, Köln 2007
[70] Senosiain J., *Bio-Architecture,* Architectural Press, Elsevier, Oxford 2003

ADDITIONAL LITERATURE:

[44] Brownell B., *Transmaterial 3,* Princeton Architectural Press, New York 2010
[45] Heartney E., *Kenneth Snelson – Forces Made Visible,* Hudson Hills Press LLC, Lenox 2009
[46] Holgate A., *The Art of Structural Engineering: The Work of Jörg Schlaich and His Team,* Edition Axel Menges, Stuttgart/London1997
[47] Iori T., *Pier Luigi Nervi,* Motta Architettura, Milan 2009
[48] Jodido P., *Calatrava,* Taschen, Köln 2005
[49] Kawaguchi M., *Structural Engineer,* Universitat Politecnica de Valencia 2009
[50] Sławińska J., *Ekspresja sił w nowoczesnej architekturze*, Warszawa 1997 (wyd. II).

COURSE INSTRUCTOR (NAME, SURNAME, E-MAIL)

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With Team: Przemysław Stobiecki PhD, Waldemar Bober PhD

EQUIVALENCY MATRIX OF LEARNING OUTCOMES FOR COURSE
STRUCTURES IN CONTEMPORARY ARCHITECTURE 2
WITH THE LEARNING OUTCOMES FOR ARCHITECTURE AND URBAN PLANNING MAJOR
AND CONCENTRATION IN ARCHITECTURE

Course learning outcome	Relation of course outcome with learning outcomes formulated for the major and concentration	Course objectives	Curriculum content	No. of teaching tool
PE_W01	S2AR_W02	C1, C4, C5	Lec1 – W8, Se1 – Se15	N1, N2, N3
PE_W02	S2AR_W02	C1, C4	Lec1 – W8, Se1 – Se15	N1, N2, N3
PE_W03	S2AR_W02	C1, C5	Lec1 – W5, Se2, Se4, Se6, Se8, Se10, Se12, Se14	N1, N2, N3
PE_W04	S2AR_W02	C1, C3, C4	Lec1 – W8, Se2, Se4, Se6, Se8, Se10, Se12, Se14	N1, N2, N3
PE_W05	S2AR_W02	C1, C5	Lec1 – W7, Se1, Se3, Se5, Se7, Se9	N1, N2, N3
PE_W06	S2AR_W02	C1, C2, C4	Lec1 – W6, Se7, Se9	N1, N2, N3
PE_W07	S2AR_W02	C1, C4, C6, C8	W6, Se3, Se5, Se7	N1, N2, N3
PE_W08	S2AR_W02	C1, C7	W8, Se2, Se4, Se6, Se8, Se10, Se12, Se14	N1, N2, N3
PE_U01	S2AR_U01	C1, C4, C5	Se2, Se4, Se6, Se8, Se10, Se12, Se14	N2, N3
PE_U02	S2AR_U01	C1, C5	Se2, Se4, Se6, Se8, Se10, Se12, Se14	N2, N3
PE_U03	S2AR_U01	C1, C4, C5	W6, Se1, Se3, Se5	N1, N2, N3
PE_U04	S2AR_U01	C1, C6, C8	W6, Se5, Se7	N1, N2, N3
PE_U05	S2AR_U01	C1, C2, C6, C8	Lec1 – W7, Se5, Se7, Se9	N1, N2, N3
PE_U06	S2AR_U01	C2, C3, C8	Lec1 – W3, Se5, Se9, Se11	N1, N2, N3
PE_U07	S2AR_U01	C1, C6, C8	Lec1 – W7, Se5, Se7, Se9, Se15	N1, N2, N3
PE_U08	S2AR_U01	C1, C8	Se11, Se13, Se15	N3
PE_U09	S2AR_U01	C8	Se1 – Se15	N2, N3
PE_K01	S2AR_K01	C5	Lec1 – W8,	N1, N2, N3

			Se1 – Se15	
PE_K02	S2AR_K01	C5	Lec1 – W8, Se1 – Se15	N1, N2, N3

OTHER USEFUL INFORMATION ABOUT THE COURSE (optional)
During seminars throughout the entire course four elements are assessed (F1 ÷ F4): assessment of the subject matter of the prepared presentations, assessment of participation in discussion, assessment of the ability to propose an alternative solution of a structural system, assessment of the ability to evaluate and present the proposed structural system. This serves as the basis for the final grade P2.

Zał. nr 4 do ZW 33/2012

FACULTY OF ARCHITECTURE

COURSE SYLLABUS

HISTORY, CONSERVATION AND REVALUATION OF GREENERY

Academic major: ARCHITECTURE AND URBAN PLANNING
Specialization: Architecture, Heritage Protection
Study cycle and study mode: second cycle, full-time
Course type:obligatory
Course code: AUA 105678S
Group of courses: NO

	Lecture	Tutorial	Lab	Project	Seminar
Number of contact hours					30
Number of student workload hours					60
Grading policy					credit
Mark (X) for final course in a group of courses					
ECTS points:					2
including ECTS points for practical hours (P)					2
including ECTS points for contact hours (CH)					2

PREREQUISITES RELATING TO KNOWLEDGE, SKILLS AND OTHER COMPETENCIES

1. KNOWLEDGE Students should have a basic knowledge of the history of architecture
2. SKILLS: To develop skills in performing library and Internet query, and preparing multimedia presentations
3. COMPETENCIES: Demonstrate the ability to work in teams

COURSE OBJECTIVES

C1 Theoretical knowledge of principles of composing historic gardens.
C2 Knowledge of component elements of historic gardens (natural, architectural-structural and technical).
C3 Knowledge of principles of conservation and revaluation of historic green areas.

COURSE LEARNING OUTCOMES

Related to knowledge:

PEK_W01 Demonstrate knowledge of history of garden developments.
PEK_W02 Demonstrate knowledge of the importance of historic greenery in the cultural and natural context.
PEK_W03 seek and use reference materials and conduct comparative studies.
PEK_W02 Demonstrate systematic and theoretically grounded knowledge that allows conservation, revalorization and design of greenery in a historic context

Related to skills:

PEK_U01 Demonstrate the interdisciplinary ability to recognize historic area, i.e. historical greenery, which is regarded as cultural good.

PEK_U02 Demonstrate the knowledge of periods and styles of gardens and their components, and then use this knowledge in the activities of conservation and design.
PEK_U03 Acquire and use source materials.

Related to social competencies:

PEK_K01 Demonstrate awareness of the consequences of social revalorization activities related to historic green areas and the resulting professional responsibility.
PEK_K02 Demonstrate awareness of the complex problems and issues related to revaluation of historic greenery.
PEK_K03 Identify relations and the meaning of cooperation with specialists in other areas and coordination of such activities.

Mode of teaching - seminar		**Number of hours**
Se1	Assignment and overview of topics of presentations and discussions within the seminar. Each student selects two garden developments and three notions in the field of garden art. Overview of the course completion requirements.	2
Se2	Introductory class to the history of gardens. (antiquity and the middle ages)	2
Se3	Introductory class to the history of gardens. (Renaissance)	2
Se4	Introductory class to the history of gardens (Baroque)	2
Se5	Introductory class to the history of gardens. (classicism and Romanticism)	2
Se6	Introductory class to the history of gardens. (20th century gardens)	2
Se7	Introductory class to the issues related to revalorization of historic garden developments.	2
Se8	Presentation of selected historical gardens and discussion of issues related to garden art. Relation of historic knowledge to contemporary garden developments. Discussion.	2
Se9	Presentation of selected historical gardens and discussion of issues related to garden art. Relation of historic knowledge to contemporary garden developments. Discussion.	2
Se10	Presentation of selected historical gardens and discussion of issues related to garden art. Relation of historic knowledge to contemporary garden developments. Discussion.	2
Se11	Presentation of selected historical gardens and discussion of issues related to garden art. Relation of historic knowledge to contemporary garden developments. Discussion.	2
Se12	Presentation of selected historical gardens and discussion of issues related to garden art. Relation of historic knowledge to contemporary garden developments. Discussion.	2
Se13	Presentation of selected historical gardens and discussion of issues related to garden art. Relation of historic knowledge to contemporary garden developments. Discussion.	2
Se14	Presentation of selected historical gardens and discussion of issues related to garden art. Relation of historic knowledge to contemporary garden developments. Discussion.	2
Se15	Summary Assessment of students' work.	2

	Total hours	30

TEACHING TOOLS
N1. notebook N2. multimedia projector N3. monitor

ASSESSMENT OF ACHIEVEMENT OF LEARNING OUTCOMES

Assessment (F – formative (during the semester), S – summative (at the end of semester)	Number of learning outcome	Method of assessing the achievement of learning outcome
F1 attendance	PEK_W01-PEK_W04; PEK_U01-PEK_W03; PEK_K01-PEK_K03	Attendance
F2. Presentation	PEK_W01-PEK_W04; PEK_U01-PEK_W03; PEK_K01-PEK_K03	Assessment for preparation and delivery of presentation
F3 participation in discussions	PEK_W01-PEK_W04; PEK_U01-PEK_W03; PEK_K01-PEK_K03	Assessment of class participation
F4 test	PEK_W01, PEK_W03, PEK_U03	Assessment of test pertaining to basic notions of history of gardens
P - Average grade: (F1+F2+F3+F4):4		

BASIC AND ADDITIONAL LITERATURE

BASIC LITERATURE:

[71] Longin Majdecki, Historia ogrodów, T.I, II, Warszawa 2010.
[72] Longin Majdecki, Konserwacja i rewaloryzacja zabytkowych założeń ogrodowych, Warszawa 1993.
[73] Gerard Ciołek, Ogrody polskie: Przemiany treści i formy, Warszawa 1954.
[74] Penelope Hobhause, Historia ogrodów, Wyd. Arkady 2007.
[75] Anna Mitkowska, Marek Siewniak, Tezaurus sztuki ogrodowej, Wyd. Rytm 1998.

ADDITIONAL LITERATURE:

[51] Janusz Bogdanowski, Polskie ogrody ozdobne, Wyd. Arkady 2000
[52] Anna Maria Gothein, Geschichte der Gartenkunst, t. I, II, Jena 1914.
[53] Enrenfried Kluckert, European garden design, Wyd. Konemann 2008.

COURSE ADVISOR (NAME, SURNAME, E-MAIL)

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EQUIVALENCY MATRIX OF LEARNING OUTCOMES FOR COURSE
HISTORY, CONSERVATION AND REVALUATION OF GREENERY
WITH THE LEARNING OUTCOMES FOR ARCHITECTURE AND URBAN PLANNING MAJOR

Course learning outcome	Relation of course outcome with learning outcomes formulated for the major	Course objectives	Curriculum content	No. of teaching tool
PEK_W01 (knowledge)	K2AiU_W02, K2AiU_W03	C1, C2	2-14	1,2,3
PEK_W02	K2AiU_W01	C1, C2	2-14	1,2,3
PEK_W03	K2AiU_W05	C1	1	1,2,3
PEK_W04	K2AiU_W05	C1,C2,C3	2-15	1,2,3
PEK_U01 (skills)	K2AiU_U04, K2AiU_U06	C1, C2	1-15	1,2,3
PEK_U02	K2AiU_U04	C1,C2	1-15	1,2,3
PEK_K01 (competencies)	K2AiU_K02; K2AiU_K04	C3	1-15	1,2,3
PEK_K02	K2AiU_K03	C3	1-15	1,2,3
PEK-KO3	K2AiU_K03	C3	1-15	1,2,3

Annex no 3 to ZW

Faculty of Architecture of WrUT

COURSE SYLLABUS

Acoustics and aerodynamics

Academic major: **Architecture and Urban Planning**
Specializations: Architecture, Urban planning
Study cycle and study mode: Second cycle, full-time / part-time
Course type:obligatory
Course code **AUA105673W**
Group of courses: NO

	Lecture	Tutorial	Lab	Project	Seminar
Number of contact hours	**30**				
Number of student workload hours	**60**				
Grading policy	**Credit**				
ECTS points:	**2**				
Including ECTS points for practical hours (P)					
Including ECTS points for contact hours (CH)	**2**				

PREREQUISITES RELATING TO KNOWLEDGE, SKILLS AND OTHER COMPETENCIES

COURSE OBJECTIVES

C1. to present the knowledge of architectural acoustics that is required to understand the physical phenomena in a building and its elements and to learn the principles of designing partitions in residential and commercial buildings in terms of acoustics, designed to provide the appropriate acoustic comfort in rooms with different functions.
C2. to present elementary knowledge of urban acoustics designed to provide the appropriate acoustic climate in urbanized areas
C3. to present elementary knowledge of aerodynamics and biourbanism designed to provide the appropriate conditions for airflow in urbanized areas

COURSE LEARNING OUTCOMES

Related to knowledge:

PEK_W01 – Demonstrate basic knowledge of thermal and humidity properties of wall structures. Define and explain the basic phenomena related to daylighting and artificial lighting. Demonstrate rudimentary knowledge of acoustics – propagation in open space, interior acoustics, acoustic insulation of walls.

PEK_W02 Demonstrate basic knowledge of aerodynamics, Define and explain basic phenomena pertaining to airflow in open and developed areas. Demonstrate rudimentary knowledge of methods of modelling studies.

Related to major-specific skills:

PEK_U01 – Design a wall with consideration of thermal and humidity requirements. Demonstrate skill in architectural design of sound insulation and proper lighting.

PEK_U02 – Design a building which meets the requirements for airflow around the building. Design architectural and urban developments that shield and dynamize the airflow.

Related to social competencies:

PEK_K01 – Demonstrate an awareness and understanding of the importance of non-technical aspects and consequences of the engineer's and architect's work, including its impact on the environment and the related responsibility for decisions.

CURRICULUM CONTENT		
Mode of teaching - lectures		Numb hours
Lec 1	Introduction to the course. Pollution of environment with noise and vibration. Objectives and tasks of architectural acoustics. Rudimentary knowledge of sound, laws, definitions, units. Principles of sound propagation in open spaces and closed rooms. Criterions for evaluation of noise. Effect of noise on people. Permissible values of sound levels in rooms. Effect of vibrations on humans. Effect of mechanical vibrations on buildings.	2
Lec 2	Basics of acoustic insulation of residential and commercial buildings. Propagation paths of sound in buildings. Methods of implementing noise insulation in buildings. Norm requirements. Principle of locating and planning rooms in buildings. Development of the body and elevation of a building. Choice of external and internal partition solutions. Sound insulation of partitions against airborne and impact sounds. Transmission of sound through partition and between rooms. Effect of flanking sound transmission on sound insulation. Effect of partition structure on its sound insulation.	2
Lec 3	Principles of designing partitions in terms of acoustics. Sound insulation of light weight and heavy weight walls. Sound insulation of ceilings. Floating floors. Light weight floor systems. Sound insulation of windows and balcony doors. Sound insulation of doors.	2
Lec 4	Sound absorbing materials, products and systems. Parameters that define sound absorbing characteristics of materials, products and systems. General principles of application.	2
Lec 5	General principles of insulating rooms against noise from mechanical equipment. Elements of measuring acoustics in buildings	2
Lec 6	Urban acoustics: (general information, protection from noise, estimating communications noise, analysis of acoustic climate – road noise, calculation method, design guidelines)	2
Lec 7	Architectural and urban aerodynamics: (general information, calculation of airflow around the building and their groups, conducting modelling studies, choosing the optimum function of an area with specific wind conditions)	2

Lec 8		1
	Total hours	**15**

TEACHING TOOLS
1. Traditional lecture using transparencies and slides 2. Individual work – study and preparation for the final examination.

ASSESSMENT OF ACHIEVEMENT OF LEARNING OUTCOMES

Assessment (F – formative (during the semester), S – summative (at the end of semester)	Number of learning outcome	Method of assessing the achievement of the learning outcome
P	PEK_W01, PEK_W02 PEK_U01, PEK_U02 PEK_K01, PEK_K02	Written and oral exam

BASIC AND ADDITIONAL LITERATURE

BASIC LITERATURE

[1] Kucharski R.J. Hałas drogowy, WKiŁ,
[2] Sadowski J., Akustyka w urbanistyce, architekturze i budownictwie, Arkady,
[3] Sadowski J., Akustyka architektoniczna, PWN,
[4] Sadowski J., Podstawy akustyki urbanistycznej, Arkady
[5] Praca zbiorowa: 'Budownictwo ogólne', tom 2 'Fizyka budowli', Arkady, Warszawa 2005.
[6] Sadowski J.: Akustyka architektoniczna. PWN, Warszawa 1980.
[7] Szudrowicz B.: Podstawy kształtowania izolacyjności akustycznej pomieszczeń w budynkach mieszkalnych. Prace ITB, Warszawa 1998.
[8] Zakrzewski T.: Akustyka budowlana, Wydawnictwo Politechniki Śląskiej, Gliwice 1997.
[9] Żenczykowski W.: Budownictwo ogólne. Tom 3/1, Arkady, Warszawa 1987.

ADDITIONAL LITERATURE

[1] Puzyna Cz., Ochrona środowiska pracy przed hałasem, t.1 i 2, WNT
[2] Rajpert T., Hałas lotniczy i sposoby jego zwalczania, WKiŁ
[3] Salzer E., Ochrona przed hałasem w miastach,
[4]Makarewicz R.: Dźwięki i fale. Wyd. Naukowe UAM, Poznań 2004.
[5]Śliwińska E.: Środowisko fizyczne człowieka. Oficyna Wydawnicza Politechniki Wrocławskiej, Wrocław 2003.
[6]Current norms and construction law

COURSE ADVISOR (NAME, SURNAME, E-MAIL)

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EQUIVALENCY MATRIX OF LEARNING OUTCOMES FOR COURSE

Acoustics and aerodynamics

WITH THE LEARNING OUTCOMES FOR THE **Faculty of Architecture** MAJOR

Course learning outcome	Relation of course outcome with learning outcomes formulated for the major and concentration	Course objectives	Curriculum content	Number of teaching tool
PEK_U01	K1AIU_U09	C2	Lec 1	1, 2
PEK_U02	K1AIU_U09	C2	Lec 1	1, 2
PEK_K01	K1AIU_K03	C2	Lec 1	1, 2
PEK_W01	K1AIU_W08,	C2	Lec 1	1, 2
PEK_W02	K1AIU_W08,	C2	Lec 1	1, 2

FACULTY OF ARCHITECTURE

COURSE SYLLABUS

TECHNOLOGY 2 CAUSES AND MECHANISMS OF DAMAGE TECHNOLOGICAL STUDIES

Academic major: ARCHITECTURE AND URBAN PLANNING
Specialization: HERITAGE PROTECTION
Course level and study mode: second cycle, full-time
Course type: obligatory
Course code: AUA105672S
Group of courses No

	Lecture	Tutorial	Lab	Project	Seminar
Total number of contact hours					30
Number of student workload hours					60
Grading policy					pass with grade
Mark (X) for final course in a group of courses					
ECTS points:					2
Including ECTS points for contact hours (CH)					2

PREREQUISITES RELATING TO KNOWLEDGE, SKILLS AND OTHER COMPETENCIES

14. General knowledge of the causes of the destruction of architectural heritage conservation and basic research.
15. General knowledge of the technologies of erecting buildings with a traditional construction, including historical objects.
16. Knowledge of building materials.

COURSE OBJECTIVES

C1 To develop knowledge of the causes of damage to heritage sites.
C2 - To introduce students to development prospects of preventing destruction of heritage.
C3 – To develop knowledge of the basic rules of conservation of historic buildings.

COURSE LEARNING OUTCOMES

Related to knowledge:

PEK_W01 Demonstrate broad and in-depth knowledge of selected areas of chemistry and physics of buildings, which is necessary to understand engineering and conservation problems. Understand the processes occurring in historic and contemporary construction and conservation materials as well as their structure.

PEK_W02 Demonstrate theoretically grounded detailed knowledge of reconstructing, reinforcing and preserving historic architectural sites, historic wooden, brick and stone, acceptable from the point of view of conservation doctrine.

Related to skills:

PEK_U01 Identify the basic threats and physical and chemical factors causing the decomposition of materials found in historic structures and define technical and technological methods of their protection and conservation; verify the use of conservation materials and chemical preparations.

PEK_U02 Identify the basic threats and physical and chemical factors causing decomposition of building materials, including those in historic buildings and

technical and technological methods of their protection and conservation; verify the use of conservation materials and chemical preparations.

Related to social competencies:

PEK_K01 Understand the need to popularize pro-conservation attitudes in society, focused on protection of the cultural and architectural heritage and landscape and promotion of their high social usability.

PEK_K02 Demonstrate awareness of the role of cultural and architectural heritage for the civilization and identity of society.

CURRICULUM CONTENT		
Mode of teaching - seminar		**Number of hours**
Se 1	Introduction to classes and presentation of requirements. Wood - macroscopic and microscopic structure of wood. Mechanical and physical properties.	2
Se 2	Biological causes of timber destruction.	2
Se 3	Stone - macroscopic and microscopic identification of material.	2
Se 4	Stone - causes of destruction of stone historic buildings.	2
Se 5	Building ceramics - mechanical and physical properties.	2
Se 6	Causes of destruction of brick historic buildings.	2
Se 7	Historical stone and brick objects - history of building techniques.	2
Se 8	Problems of preservation and conservation of selected historic buildings.	2
Se 9 Se 10	Non-destructive research methods.	4
Se 11	Destructive research methods.	2
Se 12 Se 13	Destructive research in historic structures.	4
Se 14	Types of laboratory tests.	2
Se 15	Test	2
	Total hours	**30**

TEACHING TOOLS
N1. Multimedia presentations N2. Expository lecture with elements of problem-solving lecture. N3. Interactive lecture and student paper N4. Presentation of paper by student.

ASSESSMENT OF ACHIEVEMENT OF LEARNING OUTCOMES

Assessment (F – formative (during the semester), S – summative (at the end of semester)	Number of learning outcome	Method of assessing the achievement of learning outcome
F1	S2OZ_W01	Assessment of the oral presentation - participation during classes - $\alpha_{1=}0,2$
F2	S2OZ_W01 S2OZ_W02 S2OZ_U02	Assessment of test (Se15) $\alpha_{1=}0,6$

F3	S2OZ_U01 S2OZ_U02	Assessment for the presentation of problems covered by the paper - α_2=0,2
$P = \alpha_1 F1 + \alpha_2 F2 + \alpha_3 F3$, where α_1=0,2; α_2=06; α_3=02; $\Sigma \alpha = 1$		

BASIC AND ADDITIONAL LITERATURE

BASIC LITERATURE:

[76] J. Ważny, J. Karyś - Ochrona budynków przed korozją biologiczną, Warszawa 2001.
[77] W. Domasłowski - Profilaktyczna konserwacja kamiennych obiektów zabytkowych. Toruń 1993.
[78] pod red. W. Domasłowski - Zabytki kamienne i metalowe, ich niszczenie i konserwacja profilaktyczna. Toruń 2011.
[79] Pod red. M. Kamiński, J. Jasiczak, W. Buczkowski, T. Błaszczyński - Współczesne metody naprawcze w obiektach budowlanych. Wrocław 2009.
[80] W. Domasłowski, M. Kęsy - Lewandowska, J. W. Łukaszewicz - Badanie nad konserwacją murów. Toruń 1998.
[81] A. Krajewski, P. Witomski - Ochrona drewna. Warszawa, SGGW, 2003.
[82] B. Zyska - Zagrożenia biologiczne w budynku. Warszawa, Arkady 1999.
[83] A. Strzelczyk, J. Karbowska - Berent - Drobnoustroje i owady niszczące zabytki i ich zwalczanie. Toruń 2004.

ADDITIONAL LITERATURE:

[54] Od badań do konserwacji. Materiały konferencji Toruń 23 - 24 października 1998. Toruń 2002.
[55] Pod red. B. Szmygin - Trwała ruina II. Problemy utrzymania i adaptacji. Ochrona, konserwacja i adaptacja zabytkowych murów. Lublin - Warszawa 2010.
[56] W. Domasłowski - Spoinowanie murów ceglanych. Toruń 1998.
[57] P. Kozakiewicz, M. Matejak - Klimat a drewno zabytkowe. Warszawa SGGW, 2003.
[58] Monument. Studia i materiały krajowego ośrodka badań i dokumentacji zabytków. Warszawa 2004.
[59] B. Rymaszewski - Polska ochrona zabytków. Warszawa 2005.
[60] Pod red. W. Brzeziński - Nauka i zabytki. Nauki ścisłe w służbie archeologii, ochrony zabytków oraz historii. Warszawa 2008.

COURSE INSTRUCTOR (NAME, SURNAME, E-MAIL)

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EQUIVALENCY MATRIX OF LEARNING OUTCOMES FOR COURSE
TECHNOLOGY 2 - CAUSES AND MECHANISMS OF DAMAGE TECHNOLOGICAL STUDIES
WITH THE LEARNING OUTCOMES FOR ARCHITECTURE AND URBAN PLANNING MAJOR SPECIALIZING IN HERITAGE PROTECTION

Course learning outcome	Relation of course outcome with learning outcomes formulated for the major in studies and specialization	Course objectives	Curriculum content	No. teaching tool
KNOWLEDGE				
PEK_W01	S2OZ_W10 S2OZ_W12	C1,C2,C3	Se1-Se14	N1, N4
PEK_W02	S2OZ_W11 S2OZ_W12	C1,C2,C3	Se1-Se14	N1, N4
SKILLS:				
PEK_U01	S2OZ_U09	C1,C2,C3	Se1-Se14	N1, N4
PEK_U02	S2OZ_U10	C1,C2,C3	Se1-Se14	N1, N4
COMPETENCIES:				
PEK_K01	S2OZ_K02	C3	Se1-Se15	N1, N4
PEK_K02	S2OZ_ K02	C3	Se1-Se15	N1, N4

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FACULTY OF ARCHITECTURE OF WRUT

COURSE SYLLABUS

METHODOLOGY OF SCIENTIFIC AND HISTORICAL STUDIES

Academic major: ARCHITECTURE AND URBAN PLANNING
Specialization: HERITAGE PROTECTION
Study cycle and study mode: second cycle, full-time
Course type: obligatory
Course code AUA 007543S
Group of courses No

	Lecture	Tutorial	Lab	Project	Seminar
Number of contact hours					30
Number of student workload hours					60
Grading policy					credit
Mark (X) for final course in a group of courses					
ECTS points:					2
including ECTS points for practical hours (P)					
including ECTS points for contact hours (CH)					2

PREREQUISITES RELATING TO KNOWLEDGE, SKILLS AND OTHER COMPETENCIES

1. Ability to create visualizations of objects: using drawings, 3D modeling software or in the form of physical object models, according to the curriculum.
2. Independence and initiative in archival search and / or field work.
3. Ability to work in teams

COURSE OBJECTIVES

C1 To acquaint students with the character and methods of conducting contemporary research: architectural-archaeological and historical-architectural, according to the valid ministerial regulations.

C2 To introduce students to methods of conducting stratigraphic analysis and performing chronological layering of historic buildings, in compliance with the requirements of conservation offices.

C3 To familiarize students with contemporary methods of field documentation of architectural and archaeological studies required by conservation authorities.
C4 Practical preparation of students for formulating short reports on research, material and contributory works.

C5 To underline the need for basic rescue research in historic buildings and developing skills in their rational planning within the construction process.

COURSE LEARNING OUTCOMES

Related to knowledge:

PEK_W01 Demonstrate basic knowledge of research methods and stages in the research process and the research skills of an architectural historian and the specificity of architectural and archaeological research.

PEK_W02 identify the rules for formulating field research documentation and conducting theoretical studies.

Related to skills:

PEK_U01 Demonstrate the ability to create field documentation, conduct theoretical studies, use written communications, iconographic and from other sources as well as use basic knowledge to interpret preserved relics and date objects on the basis of their technical and construction technology; integrate the information obtained and develop scientifically the results of studies and research.

PEK_U02 Apply basic technologies of recording simple spatial systems and use photographic, photogrammetric and 3D modeling methods in recording.

Related to social competencies:

PEK_K01 Work independently and in a team; manage a small team in a manner that guarantees the completion of tasks in due time.

PEK_K02 Demonstrate awareness of the role of cultural and architectural heritage for the civilization and identity of societies.

Mode of teaching - seminar		**Number of hours**
Se1	Organizational meeting*, discussion of the scope of work and requirements. Choice of object or research problem. Studying. Historical analysis (sources, iconography, cartography). Monographs, syntheses, contributive work. Structure of work, conclusions.	2
Se2	Present state of research, scope of future research. Hypothesis, thesis and their implementation in research. Analysis, intuition, coincidence.	2
Se3	Research methods: Historical, metrological, formal analysis, structural, archeological and archaeological-architectural. Non-destructive and destructive research methods.	2
Se4	Research methods, presentation of different research work. Chronological layering and dating of brick architecture using specific examples. Basics of dating. Technique and technique of construction in the Middle Ages as a determinant of the chronology of buildings.	2
Se5	Research methods, presentation of different research work. Chronological layering and dating of stone architecture using specific examples. Basics of dating. Technique and technique of construction in the Middle Ages as a determinant of the chronology of buildings.	2
Se6	Research methods, presentation of different work. Principles of drawing up field documentation. Stratigraphy and stratification in archaeological and architectural studies. So-called Harris matrices and their practical application. Modern methods of documentation in field practice.	2
Se7	Research methods, presentation of different work. Problems, misinterpretation. Imagination and creative thinking of an artist vs. objective reasoning of a scientist. Misinterpretation of results and its consequences. Scientists, inclinations, professional ethics.	2
Se8	Practical field exercises related to chronological stratification of structure based on the analysis of technique and technology of construction (choice from: Wroclaw, Legnica, Swidnica, Głogów and other cities of Silesia).	2

Se9	Research methods, presentations. Field trip with historical and architectural analysis of selected objects, which are the subject of student projects during the course.	2
Se10	Team reports on study work progress. Presentation of historical query and critical overview of the state of research.	2
Se11	Team reports on study and research progress. Field investigation stage. Consultation of results of field work.	2
Se12	Team reports on study and research progress. Stages of analysis	2
Se13	Team reports on study and research progress. Stage of synthesis and final conclusions.	2
Se14	Presentation of reconstruction of buildings (3D computer models or physical models) made on the basis of hand-drawn historical and architectural study. Consultations.	2
Se15	Summary, public presentation and critical comment on students work Choice of works for discussion during seminars, conferences and for potential publication**.	2
	Total hours	30

*it is possible to change the order of individual problems.
**results of work are archived.

TEACHING TOOLS
N1. Problem-oriented lecture with elements of expository lecture. N2. multimedia presentation, N3. Problem-oriented discussion as part of the seminar. N4. Consultations.

ASSESSMENT OF ACHIEVEMENT OF LEARNING OUTCOMES

Assessment (F – formative (during the semester), S – summative (at the end of semester)	Number of learning outcome	Method of assessing the achievement of learning outcome***
F1	PEK_W01-W02 PEK_U01-U02 PEK_K01-K02	Architectural and historic study presentation.
F2	PEK_W01-W02 PEK_U01-U02 PEK_K01-K02	Presentation of 3D model
F3	PEK_W01-W02 PEK_U01-U02 PEK_K01-K02	Final public presentation
P = average of grades F1, F2, F3		

***results of work are archived.

BASIC AND ADDITIONAL LITERATURE

BASIC LITERATURE:

[84] Barker P., *Techniki wykopalisk archeologicznych***,** Warszawa 1994

[85] Borusiewicz W., *Budownictwo murowane w Polsce. Zarys sztuki strukturalnego kształtowania do końca XIX wieku,* Warszawa-Kraków 1985.

[86] Brykowska M., *Metody pomiarów i badań zabytków architektury,* Warszawa 2003

[87] Harris E.C., *Zasady stratygrafii archeologicznej***,** Warszawa 1992

[88] Kajzer L., *Wstęp do badań archeologiczno-architektonicznych***,** Łódź 1984

[89] *Metodyka badań archeologiczno-architektonicznych*, red. Z. Kobyliński**,** Warszawa 1999

ADDITIONAL LITERATURE:

[61] Chorowska M., *Średniowieczna kamienica mieszczańska we Wrocławiu,* Wrocław 1994

[62] Chorowska M., *Rezydencje średniowieczne na Śląsku,* Wrocław 2003

[63] Hodder I., *Czytanie przeszłości,* Warszawa 1995

[64] Żemigała M., *Cegła w budownictwie wielkopolskim w średniowieczu,* Łódź 2008

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Roland Mruczek PhD roland.mruczek@pwr.wroc.pl

EQUIVALENCY MATRIX OF LEARNING OUTCOMES FOR COURSE
METHODOLOGY OF SCIENTIFIC AND HISTORICAL STUDIES
WITH THE LEARNING OUTCOMES FOR ARCHITECTURE AND URBAN PLANNING MAJOR
SPECIALIZING IN HERITAGE PROTECTION

Course learning outcome	Relation of course outcome with learning outcomes formulated for the major and concentration	Course objectives	Curriculum content	No. of teaching tool
PEK_W01 (knowledge)	S2OZ_W12	C1-C5	Se1-Se15	N1-N4
PEK_W02		C1-C5	Se1-Se15	N1-N4
PEK_U01 (skills)		C1-C5	Se1-Se15	N1-N4
PEK_U02	S2OZ_U08	C1-C5	Se1-Se15	N1-N4
PEK_K01 (competencies)		C1-C5	Se1-Se15	N1-N4
PEK_K02	S2OZ_K03	C1-C5	Se1-Se15	N1-N4

FACULTY OF ARCHITECTURE

COURSE SYLLABUS

CONSERVATIONAL DESIGN ARCHITECTURAL AND TECHNOLOGICAL DESIGN

Academic major: ARCHITECTURE AND URBAN PLANNING
Specialization: HERITAGE PROTECTION
Study cycle and study mode: second cycle, full-time
Course type: obligatory
Course code: AUA 100521P
Group of courses No

	Lecture	Tutorial	Lab	Project	Seminar
Total number of contact hours				45	
Number of student workload hours				90	
Grading policy				**pass with grade**	
Mark (X) for final course in a group of courses					
ECTS points:				3	
including ECTS points for practical hours (P)				3	
Including ECTS points for contact hours (CH)				1	

PREREQUISITES RELATING TO KNOWLEDGE, SKILLS AND OTHER COMPETENCIES

1. KNOWLEDGE

Knowledge of technical problems related to designing and construction of architectural structures
Credit for: Architectural and conservation inventory

2. SKILLS: Ability to analyze and evaluate mutual relations between the structure and its surroundings.
Ability to apply different techniques and materials in presenting architectural concepts: knowledge of computer-aided architectural design software.
Use of specialized computer aided design software.

3. OTHER COMPETENCIES: Students can take into consideration non-technical aspects of design, in particular the impact on the environment. Awareness of artistic, cultural and historic values of heritage sites.

COURSE OBJECTIVES

C1 - To introduce students to the causes of destruction of heritage sites.
C2 –To present problems related to the structural damage of a structure.
C3 - To introduce students to development prospects of preventing destruction of heritage.
C4- To present the problems associated with the use of large-span structures, as well as modern systemic and solutions and installations
C5 - To develop skills in designing and presenting medium-complex architectural projects
C6 - To prepare students to the implementation of the conservation project.

COURSE LEARNING OUTCOMES

Related to knowledge:
PEK_W01 Demonstrate broad and in-depth knowledge of selected areas of chemistry and physics of buildings which is necessary to understand engineering and conservation problems: Understand the processes occurring in historic and contemporary construction and conservation materials as well as their structure.
PEK_W02 Demonstrate advanced detailed knowledge of reconstructing, reinforcing and preserving historic architectural sites, historic wooden, brick and stone structures, accepted in terms of the preservation doctrine.
PEK_W03 - Demonstrate knowledge of the problems related to the structural damage of a structure.

PEK_W04 Demonstrate basic knowledge of research methods and stages in the research process and the research skills of an architectural historian and the specificity of architectural and archaeological research.

Related to skills:

PEK_U01 - Create technological and conservation designs of historic structures in cooperation with specialists in different areas of conservation, and also apply a methodology of technological procedures leading to the implementation of such design.

PEK_U02 Formulate conservation guidelines for historic buildings.

PEK_U03 Preserve or reconstruct the form of architectural structure.

Related to social competencies:

PEK_K01 - Demonstrate awareness of the conservation constraints of architecture and the consequences resulting from the cultural and historical context.

PEK_K02 - Demonstrate awareness of the role of cultural and architectural heritage for the civilization and identity of societies.

CURRICULUM CONTENT		
Mode of teaching - project		**Number of hours**
Pr 1	Scope of the study, course completion requirements, literature. Assignment of individual design topics to students.	2
Pr 2	Overview and summary of methods of creating an architectural and conservation project.	2
Pr 3 - Pr 4	Gathering of archival documentation (designs and iconographic data), literature and material for comparison. Formulation of conservation objectives.	4
Pr 5	Overview and summary of the problems associated with projects. Students' individual project work.	2
Pr 6	Overview and summary of the problems associated with projects. Students' individual project work.	2
Pr 7	Overview and summary of the problems associated with projects. Historic sources, iconography and archival materials.	2
Pr 8	Overview and summary of the problems associated with projects. Students' individual project work.	2
Pr 9	Presentation of gathered historic material and preliminary concept. Submission of the first draft of the project, assessment.	2
Pr 10	Overview and summary of the problems associated with projects. Students' individual project work.	2
Pr 11	Overview and summary of the problems associated with projects. Historic sources, iconography and archival materials.	2
Pr 12 Pr 13 Pr 14	Overview and summary of the problems associated with projects. Students' individual project work.	6
Pr 15	Presentation and submission of final projects. Credit	2
	Total hours	45

TEACHING TOOLS
N1. multimedia presentations
N2 Expository lecture with elements of problem-solving lecture.
N3. consultation

ASSESSMENT OF ACHIEVEMENT OF LEARNING OUTCOMES

Assessment (F – formative (during the semester), S – summative (at the end of semester)	Number of learning outcome	Method of assessing the achievement of learning outcome
F1	PEK_W03 PEK_U01-03 PEK_K02	Assessment of gathered documentation – submission of first draft of the project
F2	PEK_W01-02, PEK_W04 PEK_U02, PEK_U04 PEK_K01-03	Assessment of individually prepared sketchbook with details and descriptions
F3	PEK_W03 PEK_U01-03 PEK_K02	Assessment of the project - submission of final project
P= average of F3 and average value of F1+ F2		

BASIC AND ADDITIONAL LITERATURE

BASIC LITERATURE:

[90] J. Jasiński, A. Klimek, Z. Matkowski, K. Schabowicz - Problemy remontowe w budownictwie ogólnym i obiektach zabytkowych. Wrocław 2002.

[91] W. Domasłowski - Profilaktyczna konserwacja kamiennych obiektów zabytkowych. Toruń 1993.

[92] pod red. W. Domasłowski - Zabytki kamienne i metalowe, ich niszczenie i konserwacja profilaktyczna. Toruń 2011.

[93] Pod red. M. Kamiński, J. Jasiczak, W. Buczkowski, T. Błaszczyński - Współczesne metody naprawcze w obiektach budowlanych. Wrocław 2009.

[94] Construction law and its implementing regulations.

ADDITIONAL LITERATURE:

[65] P. Neufert - Podręcznik projektowania architektoniczno - budowlanego. Warszawa 1995

[66] Pod red. B. Szmygin - Trwała ruina II. Problemy utrzymania i adaptacji. Ochrona, konserwacja i adaptacja zabytkowych murów. Lublin - Warszawa 2010.

[67] W. Domasłowski - Spoinowanie murów ceglanych. Toruń 1998.

[68] Monument. Studia i materiały krajowego ośrodka badań i dokumentacji zabytków. Warszawa 2004.

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EQUIVALENCY MATRIX OF LEARNING OUTCOMES FOR COURSE
CONSERVATIONAL DESIGN ARCHITECTURAL AND TECHNOLOGICAL DESIGN
WITH THE LEARNING OUTCOMES FOR ARCHITECTURE AND URBAN PLANNING MAJOR
SPECIALIZING IN HERITAGE PROTECTION

Course learning outcome	Relation of course outcome with learning outcomes formulated for the major and concentration	Course objectives	Curriculum content	No. of teaching tool
PEK_W01 (knowledge)	S2OZ_W010	C1, C2, C3	Pr1- 14	N1, N2, N3
PEK_W02	S2OZ_W010	C1, C2, C3	Pr 5 - Pr 14	N1, N3
PEK_W03	S2OZ_W11	C1, C2, C3	Pr 2,Pr 5 - Pr 14	N1, N2,N3
PEK_W04	K2AiU_W05	C4	Pr3- Pr4	N1, N2
PEK_U01 (skills)	S2OZ_U04, S2OZ_U08, S2OZ_U11	C1, C2, C3	Pr3- Pr4	N1, N2,N3
PEK_U02	S2OZ_U03	C1, C2, C3	Pr3- Pr14	N1, N2
PEK_U03	S2OZ_U11	C1, C2	Pr3- Pr14	N1, N2
PEK_K01 (competencies)	S2OZ_K01, S2OZ_K02	C3	Pr2- Pr14	N1, N2
PEK_K02	S2OZ_K003	C1, C2	Pr2- Pr14	N1, N2

FACULTY OF ARCHITECTURE

COURSE SYLLABUS

FORMA I REWALORYZACJA ARCHITEKTURY I POŁOWY XX WIEKU

Course title in English FORM AND REVALUATION OF ARCHITECTURE OF THE FIRST HALF OF THE XX CENTURY
Academic major: ARCHITECTURE AND URBAN PLANNING
Specialization: HERITAGE PROTECTION
Study cycle and study mode: second cycle, full-time
Course type:obligatory
Course code AUA 006545W
Group of courses No

	Lecture	Tutorial	Lab	Project	Seminar
Number of contact hours	15				
Number of student workload hours	30				
Grading policy	**pass with grade**				
Mark (X) for final course in a group of courses					
ECTS points:	1				
including ECTS points for practical hours (P)					
including ECTS points for contact hours (CH)	1				

PREREQUISITES RELATING TO KNOWLEDGE, SKILLS AND OTHER COMPETENCIES

Ability to analyze and properly describe a work of architecture.

COURSE OBJECTIVES

C1 – To introduce students to the transformation of the architectural form in the first half of the 20th century.
C2 –To present the approach of architects to new problems that have emerged in the 20th century.
C3 – To present the architectural features that represents different formal varieties of modernism.
C4 - To present the specific problems related to the revaluation of modernist buildings entered in the register of monuments.
C5 – To develop skills in preparing historical and conservation study for the building entered in the register of monuments and representing the modernist movement.

COURSE LEARNING OUTCOMES

Related to knowledge:

PEK_W01: Demonstrate basic knowledge of research methods and stages in the research process and the research skills of an architectural historian and the specificity of architectural research.

PEK_W02: Demonstrate in-depth knowledge of history of 20th century architecture and of the specific problems related to its revaluation.

PEK_W03: Demonstrate systematic knowledge of scientific, theoretical, legislative, and organizational bases for historic preservation; identify theoretical bases of preservation for designing and revaluation programs, as well as for administration in the area of protection of various architectural structures.

Related to skills:

PEK_U01: Perceive, analyze and interpret architecture as a phenomenon which is not only aesthetic and formal but also a social one, considered in a broad cultural perspective.

PEK_U02: Compile an architectural and conservation inventory and formulate conservation guidelines for historic buildings.

Related to social competencies:

PEK_K01: Understand the need to popularize pro-conservation attitudes in society, focused on the protection of the cultural and architectural heritage and landscape and promotion of their high social usefulness.

PEK_K02: Demonstrate awareness of the role of cultural and architectural heritage for the civilization and identity of societies.

CURRICULUM CONTENT		
Mode of teaching - lectures		**Number of hours**
Lec1	Organizational lecture - presentation of the principles of work to be carried out by students during the semester	
Lec2	The verge of the 19th and 20th centuries - from ornament to simplicity, from art nouveau to new style; concrete, iron, glass and skeletal constructions - beginning of a new form.	2
Lec3	Two types of expressionism and functionalism - geometric and organic forms.	2
Lec4	Laboratories of the new style – Bauhaus, Werkbund, CIAM; housing exhibitions – experiments of the new “international style” in Europe and Poland.	2
Lec5	The importance of color in the architecture of the interwar period.	2
Lec6	German school of conservation of modernist buildings.	2
Lec7	Problems related to conservation of modernist buildings in other European countries.	2
Lec8	Polish examples of revitalization of 20th century historical sites	2
	Total hours	**15**

TEACHING TOOLS
N1. Expository lecture, problem-solving lecture – multimedia presentations
N2. Analysis of revaluation of a work of architecture in the first half of the 20th century – in situ.

ASSESSMENT OF ACHIEVEMENT OF LEARNING OUTCOMES

Assessment (F – formative (during the semester), S – summative (at the end of semester)	Number of learning outcome	Method of assessing the achievement of learning outcome
F1	PEK_K01, PEK_K02, PEK_W01, PEK_W02, PEK_W03, PEK_U01, PEK_U02	Assessment of historic-conservation study of the building
P = F1		

BASIC AND ADDITIONAL LITERATURE

BASIC LITERATURE:

[95] Piotr Biegański, *U źródeł architektury współczesnej*, Warszawa 1972.
[96] Leonardo Benevolo, *Histoire de l'architecture moderne*, Paryż 1979.
[97] Siegfried Giedion, *Czas, przestrzeń, architektura*, Warszawa 1968.
[98] Helena Syrkus, *Ku idei osiedla społecznego 1925-1975*, Warszawa 1976.
[99] Helena Syrkus, *Ku idei osiedla społecznego 1925-1975*, Warszawa 1976.
[100] Peter Goessel, Gabriele Leuthaeuser, *Architektura XX wieku*, Koeln 2006.
[101] Charles Jencks, *Ruch nowoczesny w architekturze*, Warszawa 1987.
[102] Reyner Banham, *Rewolucja w architekturze*, Warszawa 1979.
[103] Nikolaus Pevsner, *Historia architektury europejskiej*, Warszawa 1976.
[104] Kenneth Frampton, *Modern Architecture. A Critical History*. Londyn 1985.
[105] Przemysław Trzeciak, *Przygody architektury XX wieku*, Warszawa 1974.
[106] *Awangarda polska – architektura i urbanistyka 1918-1939,* pod red Olgierda Czernera i Hieronima Listowskiego, Warszawa 1981.
[107] Izabella Wisłocka, *Awangardowa architektura polska 1918-1939*, Warszawa 1968.

ADDITIONAL LITERATURE:

[69] *Architektura Wrocławia*, t.1,2,3,4, 1995, 1995, 1997, 1998.
[70] *Atlas architektury Wrocławia*, pod red. Jerzego Harasimowicza, Wrocław 1997-1998.
[71] Jadwiga Urbanik, *Wrocławska wystawa Werkbundu WUWA 1929,* Wrocław 2002.
[72] Jerzy Ilkosz, *Hala Stulecia i Tereny Wystawowe we Wrocławiu. Dzieło Maxa Berga*, Wrocław 2005.
[73] Karin Kirsch, *Die Weissenhofsiedlung*, Stuttgart 1987.
[74] *Leksykon Architektury Wrocławia*, pod red. Rafała Eysymonta, Jerzego Wilkosza, Agnieszki Tomaszewicz, Jadwigi Urbanik, Wrocław 2011.

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EQUIVALENCY MATRIX OF LEARNING OUTCOMES FOR COURSE
FORM AND REVALUATION OF EARLY 20TH CENTURY ARCHITECTURE
WITH THE LEARNING OUTCOMES FOR ARCHITECTURE AND URBAN PLANNING MAJOR
SPECIALIZING IN HERITAGE PROTECTION

Course learning outcome	**Relation of course outcome with learning outcomes formulated for the major and concentration**	**Course objectives**	**Curriculum content**	**No. of teaching tool**
PEK_W01 (knowledge)	S2OZ_W12, K2AiU_W05	C1, C2, C3, C4, C5	Lec1, Lec2, Lec3, Lec4, Lec5, Lec6, Lec7, Lec8	N1, N2
PEK_W02	S2OZ_W13, K2AiU_W02	C1, C2, C3, C4, C5	Lec1, Lec2, Lec3, Lec4, Lec5, Lec6, Lec7, Lec8	N1, N2
PEK_W03	S2OZ_W01,	C1, C2, C3, C4, C5	Lec1, Lec2, Lec3, Lec4, Lec5, Lec6, Lec7, Lec8	N1, N2
PEK_U01 (skills)	S2OZ_U03	C1, C2, C3, C4, C5	Lec1, Lec2, Lec3, Lec4, Lec5, Lec6, Lec7	N1, N2
PEK_U02	S2OZ_U07	C1, C2, C3, C4, C5	Lec1, Lec2, Lec3, Lec4, Lec5, Lec6, Lec7, Lec8	N1, N2
PEK_K01 (competencies)	S2OZ_K02	C1, C2, C3, C4, C5	Lec1, Lec2, Lec3, Lec4, Lec5, Lec6, Lec7, Lec8	N1, N2
PEK_K02	S2OZ_03	C1, C2, C3, C4, C5	Lec1, Lec2, Lec3, Lec4, Lec5, Lec6, Lec7, Lec8	N1, N2

Zał. nr 4 do ZW 33/2012

FACULTY OF ARCHITECTURE

COURSE SYLLABUS

TEORIA KONSERWACJI I REWALORYZACJI ZABYTKÓW

Title in English: THEORY OF CONSERVATION AND REVALUATION OF HISTORIC ARCHITECTURE
Academic major: ARCHITECTURE AND URBAN PLANNING
Specialization: HERITAGE PROTECTION
Study cycle and study mode: second cycle, full-time
Course type: obligatory
Course code AUA 004523
Group of courses: NO

	Lecture	Tutorial	Lab	Project	Seminar
Total number of contact hours	30				
Number of student workload hours	60				
Grading policy	**Examination**				
Mark (X) for final course in a group of courses					
ECTS points:	2				
Including ECTS points for contact hours (CH)	1				

PREREQUISITES RELATING TO KNOWLEDGE, SKILLS AND OTHER COMPETENCIES

17. Demonstrate rudimentary, systematic knowledge of architectural protection of heritage structures, historic urban complexes and the cultural landscape.

COURSE OBJECTIVES

C1 - To acquaint students with scientific, theoretical, legislative, organizational and practical bases for conservation, designing and revaluation programs, as well as administration in the area of protection of various architectural objects and urban complexes in the cultural landscape.

COURSE LEARNING OUTCOMES

Related to knowledge:

PEK_W01 - Demonstrate systematic knowledge of scientific, theoretical, legislative, and organizational bases for historic preservation.

PEK_W02 - Identify theoretical bases of preservation for designing and revaluation programs, as well as for administration in the area of protection of various architectural objects and urban complexes in the cultural landscape.

CURRICULUM CONTENT

Mode of teaching - lectures		Number of hours
Lec 1	Acquainting students with the content of lectures. The meaning and changes in meaning of the words: heritage and conservation. Types of heritage sites. Material and non-material heritage.	2
Lec 2	The causes of damage to heritage sites. Scope of protection and conservation, types of conservation and quasi-conservation activities. Interdependence with creative work. Conservation ethics.	2
Lec 3	Authenticity of a historic site. Problems of reconstruction.	2
Lec 4	Development of conservation ideas from antiquity to the French Revolution.	2
Lec 5	Ideas of conservation in the 19th century, Viollet-le-Duc, purism.	2
Lec 6	Development of conservation ideas in Poland after 1939.	2
Lec 7	Destruction caused by World War II in Poland. Conservation procedures in Poland after 1945.	2
Lec 8	National legislation pertaining to heritage protection.	2
Lec 9	International legislation pertaining to heritage protection.	2
Lec 10	Organization of conservation services in Poland, national and international conservation organizations.	2
Lec 11	Protection of historic complexes and cities, its basics and the possible scope.	2
Lec 12	Conservation of ruins and archaeological sites.	2
Lec 13	Protection and preservation of rural complexes, open-air museums.	2
Lec 14	Basic principles of protecting historic greenery developments. Evaluating the cultural landscape.	2
Lec 15	The reasons for the destruction and attempt to rescue Venice. Long-term maintenance of the Wawel Castle complex.	2
	Total hours	**30**

TEACHING TOOLS	
N1.	Expository lecture with elements of problem-solving lecture.
N2.	Multimedia presentations

ASSESSMENT OF ACHIEVEMENT OF LEARNING OUTCOMES

Assessment (F – formative (during the semester), S – summative (at the end of semester)	Number of learning outcome	Method of assessing the achievement of learning outcome
P	PEK_W01, PEK_W02	Grade for final examination.

BASIC AND ADDITIONAL LITERATURE

BASIC LITERATURE:

[108] FRODL W., *Pojęcia i kryteria wartościowania zabytków*, Warszawa, 1966

[109] FRYCZ J., *Restauracja i konserwacja zabytków architektury w Polsce w latach 1795-1918*, Warszawa, 1975

[110] MAŁACHOWICZ E., *Ochrona środowiska kulturowego*, Wrocław 1982

[111] RYMASZEWSKI B., *O przetrwanie dawnych miast*, Warszawa, 1984

[112] RYMASZEWSKI B., *Klucze ochrony zabytków w Polsce*, Warszawa, 1992

[113] SZMYGIN B., *Kształtowanie koncepcji zabytku i doktryny konserwatorskiej w Polsce w XX w.*, Lublin, 2000

[114] ZACHWATOWICZ J., *Ochrona zabytków w Polsce*, Warszawa, 1965

COURSE INSTRUCTOR (NAME, SURNAME, E-MAIL)

Professor Olgierd Czerner, olgierd.czerner@pwr.wroc.pl

Professor Rafał Czerner, rafal.czerner@pwr.wroc.pl

EQUIVALENCY MATRIX OF LEARNING OUTCOMES FOR COURSE
THEORY OF PRESERVATION AND REVALUATION OF HISTORIC MONUMENTS
WITH THE LEARNING OUTCOMES FOR ARCHITECTURE AND URBAN PLANNING MAJOR SPECIALIZING IN HERITAGE PROTECTION

Course learning outcome	Relation of course outcome with learning outcomes formulated for the major and concentration	Course objectives	Curriculum content
PEK_W01	S2OZ_W01	C1	Lec1 – Lec15
PEK_W02	S2OZ_W01	C1	Lec2, Lec3, Lec8 – Lec14

FACULTY OF ARCHITECTURE

COURSE SYLLABUS

HISTORY, CONSERVATION AND REVALUATION OF GREENERY

Academic major: ARCHITECTURE AND URBAN PLANNING
Specialization: Architecture, Heritage Protection
Study cycle and study mode: second cycle, full-time
Course type:obligatory
Course code: AUA 105678S
Group of courses: NO

	Lecture	Tutorial	Lab	Project	Seminar
Number of contact hours					30
Number of student workload hours					60
Grading policy					credit
Mark (X) for final course in a group of courses					
ECTS points:					2
including ECTS points for practical hours (P)					2
including ECTS points for contact hours (CH)					2

PREREQUISITES RELATING TO KNOWLEDGE, SKILLS AND OTHER COMPETENCIES

1. KNOWLEDGE Students should have a basic knowledge of the history of architecture
2. SKILLS: Skills in performing library and Internet query, and preparing multimedia presentations
3. COMPETENCIES: Ability to work in teams

COURSE OBJECTIVES

C1 To develop theoretical knowledge of principles of composing historic gardens.
C2 To develop knowledge of component elements of historic gardens (natural, architectural-structural and technical).
C3 To develop knowledge of principles of conservation and revaluation of historic green areas.

COURSE LEARNING OUTCOMES

Related to knowledge:

PEK_W01 Demonstrate knowledge of history of garden developments.
PEK_W02 Demonstrate knowledge of the importance of historic greenery in the cultural and natural context.
PEK_W03 Seek and use reference materials and conduct comparative studies.
PEK_W02 Demonstrate systematic and theoretically grounded knowledge that allows conservation, revalorization and design of greenery in a historic context

Related to skills:

PEK_U01 Demonstrate the interdisciplinary ability to recognize historic area, i.e. historical greenery, which is regarded as cultural good.
PEK_U02 Demonstrate the knowledge of periods and styles of gardens and their components, and then use this knowledge in the activities of conservation and design.

PEK_U03 Acquire and use source materials.

Related to social competencies:

PEK_K01 Demonstrate awareness of the consequences of social revalorization activities related to historic green areas and the resulting professional responsibility.

PEK_K02 Demonstrate awareness of the complex problems and issues related to revaluation of historic greenery.

PEK_K03 Identify relations and the meaning of cooperation with specialists in other areas and coordination of such activities.

Mode of teaching - seminar		**Number of hours**
Se1	Assignment and overview of topics of presentations and discussions within the seminar. Each student selects two garden developments and three notions in the field of garden art. Overview of the course completion requirements.	2
Se2	Introductory class to the history of gardens. (antiquity and the middle ages)	2
Se3	Introductory class to the history of gardens. (Renaissance)	2
Se4	Introductory class to the history of gardens (Baroque)	2
Se5	Introductory class to the history of gardens. (classicism and Romanticism)	2
Se6	Introductory class to the history of gardens. (20th century gardens)	2
Se7	Introductory class to the issues related to revalorization of historic garden developments.	2
Se8	Presentation of selected historical gardens and discussion of issues related to garden art. Relation of historic knowledge to contemporary garden developments. Discussion.	2
Se9	Presentation of selected historical gardens and discussion of issues related to garden art. Relation of historic knowledge to contemporary garden developments. Discussion.	2
Se10	Presentation of selected historical gardens and discussion of issues related to garden art. Relation of historic knowledge to contemporary garden developments. Discussion.	2
Se11	Presentation of selected historical gardens and discussion of issues related to garden art. Relation of historic knowledge to contemporary garden developments. Discussion.	2
Se12	Presentation of selected historical gardens and discussion of issues related to garden art. Relation of historic knowledge to contemporary garden developments. Discussion.	2
Se13	Presentation of selected historical gardens and discussion of issues related to garden art. Relation of historic knowledge to contemporary garden developments. Discussion.	2
Se14	Presentation of selected historical gardens and discussion of issues related to garden art. Relation of historic knowledge to contemporary garden developments. Discussion.	2
Se15	Summary Assessment of students' work.	2

	Total hours	30

TEACHING TOOLS
N1. notebook N2. multimedia projector N3. monitor

ASSESSMENT OF ACHIEVEMENT OF LEARNING OUTCOMES

Assessment (F – formative (during the semester), S – summative (at the end of semester)	Number of learning outcome	Method of assessing the achievement of learning outcome
F1 attendance	PEK_W01-PEK_W04; PEK_U01-PEK_W03; PEK_K01-PEK_K03	Attendance
F2. Presentation	PEK_W01-PEK_W04; PEK_U01-PEK_W03; PEK_K01-PEK_K03	Assessment for preparation and delivery of presentation
F3 participation in discussions	PEK_W01-PEK_W04; PEK_U01-PEK_W03; PEK_K01-PEK_K03	Assessment of class participation
F4 test	PEK_W01, PEK_W03, PEK_U03	Assessment of test pertaining to basic notions of history of gardens
P - Average grade: (F1+F2+F3+F4):4		

BASIC AND ADDITIONAL LITERATURE

BASIC LITERATURE:

[115] Longin Majdecki, Historia ogrodów, T.I, II, Warszawa 2010.
[116] Longin Majdecki, Konserwacja i rewaloryzacja zabytkowych założeń ogrodowych, Warszawa 1993.
[117] Gerard Ciołek, Ogrody polskie: Przemiany treści i formy, Warszawa 1954.
[118] Penelope Hobhause, Historia ogrodów, Wyd. Arkady 2007.
[119] Anna Mitkowska, Marek Siewniak, Tezaurus sztuki ogrodowej, Wyd. Rytm 1998.

ADDITIONAL LITERATURE:

[75] Janusz Bogdanowski, Polskie ogrody ozdobne, Wyd. Arkady 2000
[76] Anna Maria Gothein, Geschichte der Gartenkunst, t. I, II, Jena 1914.
[77] Enrenfried Kluckert, European garden design, Wyd. Konemann 2008.

COURSE ADVISOR (NAME, SURNAME, E-MAIL)

Marzanna Jagiełło, marzanna.jagiello@pwr.wroc.pl

EQUIVALENCY MATRIX OF LEARNING OUTCOMES FOR COURSE
HISTORY, CONSERVATION AND REVALUATION OF GREENERY
WITH THE LEARNING OUTCOMES FOR ARCHITECTURE AND URBAN PLANNING MAJOR

Course learning outcome	Relation of course outcome with learning outcomes formulated for the major	Course objectives	Curriculum content	No. of teaching tool
PEK_W01 (knowledge)	K2AiU_W02, K2AiU_W03	C1, C2	2-14	1,2,3
PEK_W02	K2AiU_W01	C1, C2	2-14	1,2,3
PEK_W03	K2AiU_W05	C1	1	1,2,3
PEK_W04	K2AiU_W05	C1,C2,C3	2-15	1,2,3
PEK_U01 (skills)	K2AiU_U04, K2AiU_U06	C1, C2	1-15	1,2,3
PEK_U02	K2AiU_U04	C1,C2	1-15	1,2,3
PEK_K01 (competencies)	K2AiU_K02; K2AiU_K04	C3	1-15	1,2,3
PEK_K02	K2AiU_K03	C3	1-15	1,2,3
PEK-KO3	K2AiU_K03	C3	1-15	1,2,3

Annex no 4 to ZW 33/2012

FACULTY OF ARCHITECTURE

COURSE SYLLABUS

Course title in Polish **MONUMENTAL ARCHITECTURE**
Academic major: **Architecture and Urban Planning**
Specialization: **Heritage Protection**
Course level and study mode: **second cycle, full-time**
Course type: **obligatory**
Course code **AUA 000510W, AUA 000510W**
Group of courses **No**

	Lecture	Tutorial	Lab	Project	Seminar
Number of contact hours	15			45	
Number of student workload hours	15			45	
Grading policy	pass with grade			pass with grade	
Mark (X) for final course in a group of courses					
ECTS points:	1			3	
including ECTS points for practical hours (P)				3	
including ECTS points for contact hours (CH)	1			1	

PREREQUISITES RELATING TO KNOWLEDGE, SKILLS AND OTHER COMPETENCIES

18.Completion of all previous design courses.

COURSE OBJECTIVES

C1 To introduce students to the problems of monumental architecture and equip them with tools which help to perceive monumental architecture and architecture as not only aesthetic and formal phenomena, but also as a social phenomena in a broad cultural context.

C2 To equip students with skills in identifying the relationship between spatial and social actions, an thus - the necessity to integrate knowledge of theory of architecture with cultural science, by means of self-education.

COURSE LEARNING OUTCOMES

Related to knowledge:

PEK_W01

Identify the role and problems of monumental architecture and its different aspects in relation to objects, buildings and urban space at a variety of scales.

PEK_W02

Demonstrate basic knowledge needed to understand the social circumstances of architectural work.

Related to skills:

PEK_U01

Perceive, analyze and interpret architecture as a phenomenon which is not only aesthetic and formal but also a social one, considered in a broad cultural perspective.

PEK_U02

Integrate knowledge of theory of architecture to build and develop design requirements in architecture.

PEK_U03

Identify further educational paths and carry out the process of self-learning.

Related to social competencies:

PEK_K01

Demonstrate awareness of the social relations and constraints of architecture and the consequences resulting from the cultural and historical context.

PEK_K02

Demonstrate an awareness and understanding of the importance of non-technical aspects and consequences of the architect's work and the responsibility for decisions.

PEK_K03

Understand the need for self-education.

CURRICULUM CONTENT		
Mode of teaching - lectures		**Number of hours**
Lec 1	Introduction to monumental architecture. Architects' views on monumentalism in architecture. Description of the adopted cognitive approach. Monumental architecture as a continuous phenomena. Three concepts of space by Siegfrid Giedion.	1
Lec2	Sensory „ideas" of space developed by archaic communities upper Paleolithic traveling space, archetypes of shapes, The Neolithic Era – model of symbolic space (toporov's universal sign complex – the abstract of the Tree of Heaven) - source of mutual homology of the time, spatial and social order of time-space of social mythopoetic communities. Ritual and myth. Radial space and its essence, basic binary oppositions encoded by the model: interior / exterior, top / bottom, center / edge. Introduction to the structural method; the idea of mythopoetic mind by Levi-Strauss. Opposites: nature / culture, metaphor / metonymy, harmony / melody, symbol / sign.	2
Lec3	Model of symbolic space; Boundary as an invariant of monumental architecture; the sacred and the profane and their morphology. Monumentalization of boundaries. *Spatial aspect of sacrum*, its essence and sources in the context of the adopted method; the static concept of Eliade and dynamic concept of Czarnowski. Mobile and immobile manifestations of	2

	verticalism. Fetishes, totems, flags, lithic hierophanies, obelisks, Stonehenge, cosmic mountains: royal pyramids, Borobodur temple, statues of ancient Egypt, tholos tomb.	
Lec 4	The ritual and ritualistic space and its examples. Meeting tent, Temple of Khonsu, Theban temple complex, structure of the Roman city. *Territorial religious unit of Czarnowski.*	2
Lec 5	Code, codification, social normativism. Topography of monumental architecture. *Monumental architecture of the center, the boundaries and zero-degree monumental architecture.* Monumentalization. Transgressions and retrogressions. Monumental and monumentalising architecture.	2
Lec 6	The ritual and ritualistic space continued. Hadrian's pantheon. Summary morphology of boundaries in space.	2
Lec 8	The idea of circulation – Harvey, Smith and its representation in the city structure of the Enlightenment period. L'Enfant's and Ellicot's plans of the city of Washington. Architecture parlante. Boullée's monumentalization of empty space. Cenotaph for Sir Isaac Newton Uprooted rituals of revolutionary France. Transformations of European tradition historism and avant-garde as reflections of transgression and retrogression. Historism versus monumentalising architecture H. R. Hitchock – *New Tradition* – architecture of authority. Modern movement and New Tradition movement as emblems of transgression and retrogression.	2
Lec 8	Symbolic ritualistic space of the uprooted ritual of totalitarian countries. Examples: commemoration of the 1st anniversary of the October Revolution by Altman, Speer's Cathedral of Light, Palace of the Soviets public contest - designs by Corbusier and Iofan. Nine points on monumentalism – Giedion, Léger, Sert. Modernity Art of the second avant-garde. Earth art and conceptualism. Architectural avant-garde of the seventies versus monumentalism – Superstudio, Archizoom, OMA. Zero-degree monumental architecture of modernity. Summary.	2
	Total hours	**15**

Mode of teaching - project		**Number of hours**
Pr1	Introductory meeting - information on the objectives and methods of organizing the project.	3
Pr2	In-class assignments 1 Consultations.	3
Pr3	In-class assignments 2 Consultations.	3
Pr4	In-class assignments 3 Consultations.	3
Pr5	Analysis of proposed locations and problems – preliminary choice of design topics.	3
Pr6	Review 1 - presentation and discussion.	3
Pr7	Clarification of topic, critiques.	3
Pr8	Critiques and consultations.	3
Pr9	Review 2 - presentation and discussion.	3
Pr10	Critiques and consultations - project modifications after review.	3
Pr11	Critiques and consultations.	3
Pr12	Review 3 - presentation and discussion.	3

Pr13	Critiques and consultations - project modifications after review.	3
Pr14	Critiques and consultations.	3
Pr15	Submission of projects – presentation with discussion	3
	Total hours	**45**

TEACHING TOOLS
N1. for lectures: multimedia presentation, problem-solving lecture N2. For project: project presentation, consultations, discussion

ASSESSMENT OF ACHIEVEMENT OF LEARNING OUTCOMES

Assessment (F – formative (during the semester), S – summative (at the end of semester)	Number of learning outcome	Method of assessing the achievement of learning outcome
F1	PEK_W01 PEK_U01 PEK_K01	Project review, discussion Assessment of the quality of the substance, intellectual value, presentation and graphical content
F2	PEK_W01 PEK_W02 PEK_U01 PEK_U02 PEK_K01 PEK_K02	Project review, discussion Assessment of the quality of the substance, intellectual value, presentation and graphical content
F3	PEK_W01 PEK_W02 PEK_U01 PEK_U02 PEK_U03 PEK_K01 PEK_K02 PEK_K03	Project review, discussion Assessment of the quality of the substance, intellectual value, presentation and graphical content
P - Final project assessment - weighted average of grades from three project reviews and the grade for the process of developing the solution for the project assignment.		

BASIC AND ADDITIONAL LITERATURE

BASIC LITERATURE:

[1] S. CZARNOWSKI, *Dzieła,* T. 3, *Podział przestrzeni i jej rozgraniczanie w religii i w magii,* Warszawa 1956.

[2] S. CZARNOWSKI, *Dzieła,* T. 3, *„Góra" i"Dół" w systemie kierunków sakralnych*, Warszawa 1956.

[3] M. ELIADE, *Sacrum, mit, historia*, Warszawa 1993.

[4] J. MAISSONNEUVE, *Rytuały dawne i współczesne*, Gdańsk 1995.

[5] Yi-fu-tuan, Przestrzeń i miejsce, Warszawa 1987,

[6] B. Szmidt, Ład przestrzeni, Warszawa 1979.

[7] P. KRAKOWSKI, *Teoretyczne podstawy architektury wieku XIX*, Warszawa, Kraków 1979.
[8] J. KORDYS, Mózg i znaki, Warszawa 1991.
[9] R. SENNET, Ciało i kamień, Gdańsk 1996.
[10] M. CZERWIŃSKI, *Profile kultury*, Warszawa 1980.
[11] M. CZERWIŃSKI, *Przyczynki do antropologii współczesności,* Warszawa 1988.
[12] S. GIEDION, *The Eternal Present, Volume I*: The Beginnings of Art., London 1962,
[13] S. GIEDION, *Architecture and the Phenomena of transition*, Cambridge, Ma., 1971.
[14] Sacrum i sztuka, Kraków 1989, (materiały z konferencji),
[15] K. FRAMPTON, *Modern architecture – a critical history*, London 1985.
[16] F. PAWLICKI, *Skarby architektury starożytnego Egiptu, Królewskie świątynie w Deir*
[17] *el-Bahari*, Warszawa 2000.

ADDITIONAL LITERATURE:

[1] M. ELIADE, *Traktat o historii religii,* Warszawa 1993.
[2] M. LEŚNIAKOWSKA, *Co to jest architektura?*, Warszawa 1996.
[3] J. LUDWIŃSKI, *Epoka błękitu*, Kraków 2003.
[4] S. MORAWSKI, *Na zakręcie od sztuki do po – sztuki*, Kraków 1985.

COURSE ADVISOR (NAME, SURNAME, E-MAIL)

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EQUIVALENCY MATRIX OF LEARNING OUTCOMES FOR COURSE

MONUMENTAL ARCHITECTURE

WITH THE LEARNING OUTCOMES FOR ARCHITECTURE AND URBAN PLANNING MAJOR SPECIALIZING IN HERITAGE PROTECTION

Course learning outcome	**Relation of course outcome with learning outcomes formulated for the major and concentration**	**Course objectives**	**Curriculum content**	**No. of teaching tool**
PEK_W01 (knowledge)	**S2OZ_W04**	N2.	Lec1 – Lec15 Pr1 – Pr15	N1, N2
PEK_W02	**K2AiU_W01**	C1, C2	Lec1 – Lec15 Pr1 – Pr15	N1, N2
PEK_U01 (skills)	**S2OZ_U03**	C1, C2	Lec1 – Lec15 Pr1 – Pr15	N1, N2
PEK_U02	**K2AIU_U03**	C1, C2	Lec1 – Lec15 Pr1 – Pr15	N1, N2
PEK_U03	**K2AiU_U01**	C2	Lec1 – Lec15 Pr1 – Pr15	N1, N2
PEK_K01 (competencies)	**S2OZ_K01**	C2	Lec1 – Lec15 Pr1 – Pr15	N1, N2
PEK_K02	**K2AIU_K03**	C1	Lec1 – Lec15 Pr1 – Pr15	N1, N2
PEK_K03	**K2AiU_K01**	C2	Lec1 – Lec15 Pr1 – Pr15	N1, N2

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FACULTY OF ARCHITECTURE

COURSE SYLLABUS

PRESERVATION AND REVALUATION OF GREENERY

Course title in English
Academic major: ARCHITECTURE AND URBAN PLANNING
Specialization: HERITAGE PROTECTION
Course level and study mode: second cycle, full-time
Course type: elective
Course code NEW
Group of courses No

	Lecture	Tutorial	Lab	Project	Seminar
Number of contact hours	15	-	-	45	-
Number of student workload hours	-	-	-	45+10 (individual work)	-
Grading policy				credit	
Mark (X) for final course in a group of courses				X	
ECTS points:				4	
including ECTS points for practical hours (P)				3	
including ECTS points for contact hours (CH)				2	

PREREQUISITES RELATING TO KNOWLEDGE, SKILLS AND OTHER COMPETENCIES

1. KNOWLEDGE Students should have a basic knowledge of the history and revaluation of gardens and the history of architecture and urbanism and history of architectural detail.
2. SKILLS: Skills in performing queries: library, archive and Internet, and the ability of architectural and urban design.
4. COMPETENCIES: Demonstrate the ability to work in teams

COURSE OBJECTIVES

C1 Develop knowledge of principles of conservation and revaluation of historic green areas.
C2 Develop skills in reconstructing gardens based on iconographic materials and comparative studies.

C3 Develop the ability to design green areas in the historic context

COURSE LEARNING OUTCOMES

Related to knowledge:

PEK_W01 Demonstrate knowledge of the principles of the preparation and implementation of projects of restoration and revaluation on historic gardens.

PEK_W02 Demonstrate knowledge of current trends in the design of greenery in historic areas.

Related to skills:

PEK_U01 Analyze archive sources and use them in work on conservation, revaluation and reconstruction of historic greenery and associated small architectural objects and building elements.

PEK_U02 Demonstrate the ability to create a project that complies with the rules and regulations and standards adopted in Poland for the conservation and revalorization of historic greenery.

Related to social competencies:

PEK_K01 Demonstrate advanced awareness of the consequences of social revalorization activities related to historic green areas and the resulting professional responsibility.

PEK_K03 Demonstrate awareness of cooperation with specialists in other areas.

CURRICULUM CONTENT		
Mode of teaching - lectures		**Number of hours**
Lec1		
Lec2		
Lec3		
Lec4		
Lec5		
….		
	Total hours	

Mode of teaching - project		**Number of hours**
Pr1	Assignment and overview of topics for projects. Each student selects two topics: 1. reconstruction of the historical garden, 2. design of a garden in historical surroundings. Overview of the course completion requirements.	2
Pr2	Consultation and preliminary analysis of the first topic. In-class work.	2
Pr3-Pr8	Consultations and critiques of projects, monitoring of the progress of work (1st topic). In-class work.	12
Pr9	Overview of finished projects (1st topic), discussion, assessment.	2
Pr10	Consultation and preliminary analysis of the second topic. In-class work.	2
Pr11-Pr14	Consultation and critiques of projects, monitoring of the progress of work (2nd topic). In-class work.	8
Pr15	Overview of finished projects (1 subject), discussion. Summary Assessment of students' work.	2
	Total hours	**30**

TEACHING TOOLS
N1. notebook N2. multimedia projector N3. monitor

ASSESSMENT OF ACHIEVEMENT OF LEARNING OUTCOMES

Assessment (F – formative (during the semester), S – summative (at the end of semester)	Number of learning outcome	Method of assessing the achievement of learning outcome
F1	PEK_W01-PEK_W02; PEK_U01-PEK_W02; PEK_K01-PEK_K02	Attendance
F2, F3	PEK_W01-PEK_W02; PEK_U01-PEK_W02; PEK_K01-PEK_K02	Assessment of projects 1 and 2
F4	PEK_W01-PEK_W02; PEK_U01-PEK_W02; PEK_K01-PEK_K02	Assessment of class participation
P= (F1(0.1)+F2,F3 (0.4+0.4)+F4(0.1)=1		

BASIC AND ADDITIONAL LITERATURE
BASIC LITERATURE: [120] Longin Majdecki, *Historia ogrodów*, T.I, II, Warszawa 2010. [121] Longin Majdecki, *Konserwacja i* rewaloryzacja *zabytkowych założeń ogrodowych*, Warszawa 1993. [122] Gerard Ciołek, *Ogrody polskie: Przemiany treści i formy*, Warszawa 1954. [123] Penelope Hobhause, *Historia ogrodów,* Wyd. Arkady 2007. [124] Anna Mitkowska, Marek Siewniak, *Tezaurus sztuki ogrodowej,* Wyd. Rytm 1998. **ADDITIONAL LITERATURE:** [78] Janusz Bogdanowski, *Polskie ogrody ozdobne*, Wyd. Arkady 2000 [79] Anna Maria Gothein, *Geschichte der Gartenkunst*, t. I, II, Jena 1914. [80] Ehrenfried Kluckert, *European garden design*, Wyd. Konemann 2008.
COURSE ADVISOR (NAME, SURNAME, E-MAIL)
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EQUIVALENCY MATRIX OF LEARNING OUTCOMES FOR COURSE
DESIGN STUDY: PRESERVATION AND REVALUATION OF GREENERY
WITH THE LEARNING OUTCOMES FOR ARCHITECTURE AND URBAN PLANNING MAJOR
SPECIALIZING IN HERITAGE PROTECTION

Course learning outcome	Relation of course outcome with learning outcomes formulated for the major and specialization	Course objectives	Curriculum content	No. of teaching tool
PEK_W01 (knowledge)	S2OZ_W06	C1, C2, C3	1-8	1,2,3
PEK_W02	S2OZ_W06	C3	11-15	1,2,3
PEK_U01 (skills)	S2OZ_U05	C1, C2	1-8	1,2,3
PEK_U02	S2OZ_U01, S2OZ_U02, S2OZ_U05	C1	1-8	1,2,3
PEK_K01 (competencies)	S2OZ_K01	C1, C2	1-15	1,2,3
PEK_K02	S2OZ_K01	C1	1-15	1,2,3

Zał. nr 4 do ZW 33/2012

FACULTY OF ARCHITECTURE

COURSE SYLLABUS

PRESERVATION AND REVALUATION OF GREENERY

Course title in English
Academic major: ARCHITECTURE AND URBAN PLANNING
Specialization: HERITAGE PROTECTION
Course level and study mode: second cycle, full-time
Course type: elective
Course code NEW
Group of courses No

	Lecture	Tutorial	Lab	Project	Seminar
Number of contact hours	15	-	-	45	-
Number of student workload hours	-	-	-	45+10 (individual work)	-
Grading policy				credit	
Mark (X) for final course in a group of courses				X	
ECTS points:				4	
including ECTS points for practical hours (P)				3	
including ECTS points for contact hours (CH)				2	

PREREQUISITES RELATING TO KNOWLEDGE, SKILLS AND OTHER COMPETENCIES

1. KNOWLEDGE Students should have a basic knowledge of the history and revaluation of gardens and the history of architecture and urbanism and history of architectural detail.
2. SKILLS: Skills in performing queries: library, archive and Internet, and the ability of architectural and urban design.
4. COMPETENCIES: Demonstrate the ability to work in teams

COURSE OBJECTIVES

C1 Develop knowledge of principles of conservation and revaluation of historic green areas.
C2 Develop skills in reconstructing gardens based on iconographic materials and comparative studies.

C3 Develop the ability to design green areas in the historic context

COURSE LEARNING OUTCOMES

Related to knowledge:

PEK_W01 Demonstrate knowledge of the principles of the preparation and implementation of projects of restoration and revaluation on historic gardens.

PEK_W02 Demonstrate knowledge of current trends in the design of greenery in historic areas.

Related to skills:

PEK_U01 Analyze archive sources and use them in work on conservation, revaluation and reconstruction of historic greenery and associated small architectural objects and building elements.

PEK_U02 Demonstrate the ability to create a project that complies with the rules and regulations and standards adopted in Poland for the conservation and revalorization of historic greenery.

Related to social competencies:

PEK_K01 Demonstrate advanced awareness of the consequences of social revalorization activities related to historic green areas and the resulting professional responsibility.

PEK_K03 Demonstrate awareness of cooperation with specialists in other areas.

CURRICULUM CONTENT		
Mode of teaching - lectures		**Number of hours**
Lec1		
Lec2		
Lec3		
Lec4		
Lec5		
….		
	Total hours	

Mode of teaching - project		**Number of hours**
Pr1	Assignment and overview of topics for projects. Each student selects two topics: 1. reconstruction of the historical garden, 2. design of a garden in historical surroundings. Overview of the course completion requirements.	2
Pr2	Consultation and preliminary analysis of the first topic. In-class work.	2
Pr3-Pr8	Consultations and critiques of projects, monitoring of the progress of work (1st topic). In-class work.	12
Pr9	Overview of finished projects (1st topic), discussion, assessment.	2
Pr10	Consultation and preliminary analysis of the second topic. In-class work.	2
Pr11-Pr14	Consultation and critiques of projects, monitoring of the progress of work (2nd topic). In-class work.	8
Pr15	Overview of finished projects (1 subject), discussion. Summary Assessment of students' work.	2
	Total hours	**30**

TEACHING TOOLS
N1. notebook N2. multimedia projector N3. monitor

ASSESSMENT OF ACHIEVEMENT OF LEARNING OUTCOMES

Assessment (F – formative (during the semester), S – summative (at the end of semester)	Number of learning outcome	Method of assessing the achievement of learning outcome
F1	PEK_W01-PEK_W02; PEK_U01-PEK_W02; PEK_K01-PEK_K02	Attendance
F2, F3	PEK_W01-PEK_W02; PEK_U01-PEK_W02; PEK_K01-PEK_K02	Assessment of projects 1 and 2
F4	PEK_W01-PEK_W02; PEK_U01-PEK_W02; PEK_K01-PEK_K02	Assessment of class participation
P= (F1(0.1)+F2,F3 (0.4+0.4)+F4(0.1)=1		

BASIC AND ADDITIONAL LITERATURE

BASIC LITERATURE:

[125] Longin Majdecki, *Historia ogrodów*, T.I, II, Warszawa 2010.
[126] Longin Majdecki, *Konserwacja i* rewaloryzacja *zabytkowych założeń ogrodowych*, Warszawa 1993.
[127] Gerard Ciołek, *Ogrody polskie: Przemiany treści i formy*, Warszawa 1954.
[128] Penelope Hobhause, *Historia ogrodów,* Wyd. Arkady 2007.
[129] Anna Mitkowska, Marek Siewniak, *Tezaurus sztuki ogrodowej,* Wyd. Rytm 1998.

ADDITIONAL LITERATURE:

[81] Janusz Bogdanowski, *Polskie ogrody ozdobne*, Wyd. Arkady 2000
[82] Anna Maria Gothein, *Geschichte der Gartenkunst*, t. I, II, Jena 1914.
[83] Ehrenfried Kluckert, *European garden design*, Wyd. Konemann 2008.

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EQUIVALENCY MATRIX OF LEARNING OUTCOMES FOR COURSE
DESIGN STUDY: PRESERVATION AND REVALUATION OF GREENERY
WITH THE LEARNING OUTCOMES FOR ARCHITECTURE AND URBAN PLANNING MAJOR
SPECIALIZING IN HERITAGE PROTECTION

Course learning outcome	Relation of course outcome with learning outcomes formulated for the major and specialization	Course objectives	Curriculum content	No. of teaching tool
PEK_W01 (knowledge)	S2OZ_W06	C1, C2, C3	1-8	1,2,3
PEK_W02	S2OZ_W06	C3	11-15	1,2,3
PEK_U01 (skills)	S2OZ_U05	C1, C2	1-8	1,2,3
PEK_U02	S2OZ_U01, S2OZ_U02, S2OZ_U05	C1	1-8	1,2,3
PEK_K01 (competencies)	S2OZ_K01	C1, C2	1-15	1,2,3
PEK_K02	S2OZ_K01	C1	1-15	1,2,3

Faculty of Architecture of WrUT

COURSE SYLLABUS
REGENERATION OF URBAN AREAS

Course title in English Revitalization of urban areas
Academic major: **ARCHITECTURE AND URBAN PLANNING**
Specialization: **Urban Planning**
Study cycle and study mode: second cycle, full-time
Course type:obligatory
Course code: AUA105704W, UA105705P
Group of courses: NO

	Lecture	Tutorial	Lab	Project	Seminar
Number of contact hours	30			60	
Number of student workload hours	60			120	
Grading policy	credit			credit	
ECTS points:	2			4	
Including ECTS points for practical hours (P)				4	
Including ECTS points for contact hours (CH)	2			2	

PREREQUISITES RELATING TO KNOWLEDGE, SKILLS AND OTHER COMPETENCIES

- Knowledge of basic elements of functional and spatial structure of urbanized areas.
- Basic skills of reading planning notation its interpretation.

COURSE OBJECTIVES

C1 - To introduce students to the problem of city regeneration, to present the principles of constructing local programs of revitalization and to acquaint students with documents of the government, region and gmina, which serve as tools for the implementation of the revitalization process.
C2 - To develop skills in identifying the phenomena that occur in degraded areas in cities and to identify the principles for regenerating them and to acquaint students with the revitalization practice in problem areas: e.g. postindustrial, residential and public spaces.
C3 - To acquaint students with the tools of revitalization processes for urbanized areas, methods of financing revitalization processes and the system of their monitoring.

COURSE LEARNING OUTCOMES

Related to knowledge:
PEK_W01 Recognize basic regulations pertaining to city regeneration.
PEK_W02 Demonstrate basic knowledge of the principles of formulating local regeneration programs.
PEK_W03 Demonstrate general knowledge of using state, regional and communal documents as tools for implementing revitalization processes.
PEK_W04 Demonstrate knowledge of demographic and social circumstances of revitalization of urbanized areas and principles of social participation.
PEK_W05 Demonstrate knowledge of tools of processes of revitalization of urbanized areas.
PEK_W06 Demonstrate knowledge of methods of financing the revitalization process and the system which monitors these methods.
PEK_W07 Demonstrate knowledge of contemporary social, economical, spatial and ecological problems in cities and identify possible ways of solving them.
Related to skills:
PEK_U01 Identify negative phenomena in degraded areas in cities and propose ways of eliminating them

PEK_U02 Delimit problematic area based on performed analyses.
PEK_U03 Evaluate space using different coefficients – use the results of such evaluation in defining the direction of further regeneration activities.
PEK_U04 Prepare a catalog of regeneration activities including their division into stages and the results of the regeneration process.
PEK_U05 Obtain data used for preparing and analyzing the coefficients of degradation of urbanized space.
PEK_U06 Present the results of spatial, social, economic and ecological analyses in clear graphical form.
PEK_U07 Identify and characterize examples of revitalization projects conducted in different problem areas: e.g. postindustrial, residential and public spaces.

Related to social competencies:

PEK_K01 Understand the direct and indirect influence of urban planning activities on the regeneration of degraded areas.
PEK_K02 Demonstrate an awareness of the many aspects of the revitalization process and understand the necessity to undertake integrated activities in different areas of life.
PEK_K03 demonstrate readiness to cooperate in an interdisciplinary team that plans and implements revitalization activities.
PEK_K04 Demonstrate readiness to start research work in the areas of revitalization.

CURRICULUM CONTENT		
Mode of teaching - lectures		Number hours
Lec1	Introduction to urban renewal. Examples of programs of Regeneration of urban areas	2
Lec2	Local Revitalization Plan - principles of construction.	2
Lec3	Local Revitalization Plan for Wrocław.	2
Lec4	Principles of formulating spatial analysis with account being taken of degraded areas.	2
Lec5	Legal and organization aspects of managing the revitalization process. Revitalization in governmental, regional and communal documents. Long-term investment programs as a tool for the implementation of revitalization processes and development of the city. Finance and real estate management in the processes of revitalization.	2
Lec6	Social participation in the process of preparing local revitalization programs. Demographic and social constraints of regeneration of urban areas.	2
Lec7	Principles of preparing revitalization catalogues. Staging. Expected results of revitalization The monitoring system of revitalization processes.	2
Lec8	Revitalization practice on postindustrial areas, case studies. The Museum of Industry and Technology in Wałbrzych, other. The process of revitalization and the creation of new public spaces - case studies: Manufaktura Łódź, Old Brewery in Poznan, others..	2
Lec9	Issues of revitalization of historic residential areas. Case study: Zyrardów (factory village), factory estates of Upper Silesia, Lofts in Scheibler - Lodz,	2
Lec10	Revitalization of modernist residential complexes	2
Lec11	The importance of the concept of urban and architectural spatial vision in creating revitalization activities. Wrocław – Plac Społeczny, Wrocław – Nowy Targ, others.	2
Lec12	Charter of public space. Revitalization of public spaces - case study Krakow suburbs, Wroclaw's Old Town Promenade, Old Town in Bielsko-Biala, others.	2
Lec13	Revitalization of cultural facilities	2
Lec14	Tools for the implementation of revitalization processes of urban areas: land use plans, decisions pertaining to conditions of development, urban and architectural contests and projects.	2

Lec15	Lecture credit. Presentation of selected revitalization programs and evaluation of their implementation.	2
	Total hours	**30**

Mode of teaching - project		Number hours
Pr1	INTRODUCTION Aspects of revitalization initiatives on the basis of spatial examples. Assignment of topics. Discussion of the schedule of classes, scope of reviews and principles of the creating projects.	4
Pr2	SUBJECT CHOICE STAGE: Indication of the cultural, spatial and social potential for the introduction of revitalization activities. Photographic inventory.	4
Pr3	REVIEW 1 - THE PHASE OF APPROVAL OF THE SUBJECT Initial presentations of selected cities. Indication of the city potential for the introduction of revitalization activities.	4
Pr4	CONSULTATIONS-SPACE EVALUATION. Spatial analysis with account being taken of degraded areas: - the functional structure, communication connections, natural values, the degree and categories of degraded spaces, functional deficiencies. Determination of the degree of degradation and categories of space and its functional deficiencies.	4
Pr5	CONSULTATIONS-SPACE EVALUATION. Socio- economic analyses: demographic changes, migrations, unemployment, number of business entities, their size, inconveniences, cultural activities in the area. Defining principles of cooperation with local communities. Questionnaire structure.	4
Pr6	CONSULTATIONS - SWOT analysis: strengths and weaknesses, opportunities and threats Definition of the social and economic development possibilities.	4
Pr7	CONSULTATIONS - CATALOGUE OF RENOVATION ACTIONS	4
Pr8	2nd REVIEW. Preliminary plan of revitalization of selected areas - catalogue of revitalization activities. Staging. Expected results of revitalization Indication of areas and activities to further revitalization actions. (Scope from Pr 4 to Pr7)	4
Pr9	CONSULTATIONS - SPATIAL CONCEPTS Detailing of revitalization projects for the selected area. Functional and technological objectives. 1:500 scale	4
Pr10	CONSULTATIONS - SPATIAL CONCEPTS Project of spatial development of selected public space. 1:500 scale	4
Pr11	CONSULTATIONS - SPATIAL CONCEPTS Project of spatial development of selected public space. 1:500 scale	4
Pr12	3rd REVIEW. Presentation of the revitalization project selected public space. (Scope od Pr9 do Pr12)	4
Pr13	IN-CLASS ASSIGNMENT.	4

	Urban guidelines for planning studies. Overlay of master plan concept, site summary. 1:500 scale	
Pr14	CONSULTATIONS. Urban guidelines for planning studies. 1:500 scale	4
Pr15	FINAL REVIEW. CREDIT	4
	Total hours	**60**

TEACHING TOOLS	
1.	Lecture with multimedia presentation
2.	Individual project consultations with the instructor.
3.	In-class assignments on a given topic.
4.	Interactive lecture and project
5.	Individual work – preparation for project.
6.	Individual work – study and preparation for the final examination covering the content of lectures

ASSESSMENT OF ACHIEVEMENT OF LEARNING OUTCOMES

Lecture

Assessment (F – formative (during the semester), S – summative (at the end of semester)	Number of learning outcome	Method of assessing the achievement of the learning outcome
P	PEK_W01 ÷ PEK_W07 PEK_U01 ÷ PEK_U07 PEK_K01 ÷ PEK_K04	test.

Project

Assessment (F – formative (during the semester), S – summative (at the end of semester)	Number of learning outcome	Method of assessing the achievement of the learning outcome
F1	PEK_U01 ÷ PEK_U3	Presentation of project.
F2	PEK_U04 ÷ PEK_U7	Presentation of project.
P	PEK_W01 ÷ PEK_W07 PEK_U01 ÷ PEK_U07 PEK_K01 ÷ PEK_K04	Submitted project

BASIC AND ADDITIONAL LITERATURE

BASIC LITERATURE

1. Specyfika odnowy małych i średnich miast w Polsce. Praca zbiorowa pod redakcją Joanny Poczobut. Stowarzyszenie Forum Rewitalizacji, 2009.
2. Rewitalizacja miast w Wielkiej Brytanii. Praca zbiorowa pod red. R. Guzika. Instytut Rozwoju Miast. Kraków 2009.
3. Skalski Krzysztof, Rewitalizacja we Francji - zarządzanie przekształceniami obszarów kryzysowych w miastach. Instytut Rozwoju Miast. Kraków 2009.
4. Rewitalizacja miast w Niemczech. Praca zbiorowa pod red. M. Bryxa i A. Jadach-Sepioło. Instytut Rozwoju Miast. Kraków 2009.
5. Przestrzenne aspekty rewitalizacji - śródmieścia, blokowiska, tereny poprzemysłowe, pokolejowe i powojskowe. Praca zbiorowa pod red. W Jarczewskiego. Instytut Rozwoju Miast. Kraków 2009.
6. Demograficzne i społeczne uwarunkowania rewitalizacji miast w Polsce. Praca zbiorowa pod red. A. Zborowskiego. Instytut Rozwoju Miast. Kraków 2009.
7. Aspekty prawne i organizacyjne zarządzania rewitalizacją. Praca zbiorowa pod red. W. Rydzika. Instytut Rozwoju Miast. Kraków 2009.
8. Finansowanie i gospodarka nieruchomościami w procesach rewitalizacji. Praca zbiorowa pod red. M. Bryxa. Instytut Rozwoju Miast. Kraków 2009.

9. Rewitalizacja miast polskich – diagnoza. Praca zbiorowa pod red. Z. Ziobrowskiego i W. Jarczewskiego. Instytut Rozwoju Miast. Kraków 2009.

ADDITIONAL LITERATURE

1. Piątek Eufrozyna, Historia kopalni węgla kamiennego Julia *[Fuchs, Biały Kamień, Thorez]*
2. Żyrardów Plan Miasta z przewodnikiem turystycznym. Agencja REGRAF. www.um.zyrardow.pl,
3. Plan Rozwoju Miasta Poznania na lata 2005-2010, Poznań, listopad 2004. www: bip.city.poznan.pl
4. Andreas Billert; Centrum staromiejskie w Żarach; problemy, metody i strategie rewitalizacji; Słubice 2004
5. Lorens Piotr. Gospodarowanie przestrzenią a polityka równoważenia rozwoju. Urbanista 9/2005.
6. Konieczny Bożena, Delowski Tomasz, Wyboista droga do odnowy miasta. Plan dla śródmieścia Będzina. Urbanista 10/2005.
7. Ledwoń Sławomir. Centra handlowo – usługowe. Nowa funkcja dworców klejowych. Urbanista 3/2006.
8. Wyporek Bogdan, Bilbao – historia upadku i renesansu miasta. Urbanista 3/2006.
9. Myczkowski Zbigniew, Parki kulturowe, zasady tworzenia i zarządzania. Urbanista 2/2006 i 3/2006.

COURSE ADVISOR (NAME, SURNAME, E-MAIL)

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EQUIVALENCY MATRIX OF LEARNING OUTCOMES FOR COURSE
REGENERATION OF URBAN AREAS
WITH THE LEARNING OUTCOMES FOR ARCHITECTURE AND URBAN PLANNING MAJOR
SPECIALIZATION: URBAN PLANNING

Course learning outcome	Relation of course outcome with learning outcomes formulated for the major and concentration	Course objectives	Curriculum content	Number of teaching tool ...
PEK_W01 - PEK_W07,	K2AiU_W05 S2AR_W04, S2AR_W06 S2U_W09 ÷ S2U_W13	C1-3	Lec.÷Lec15	1,4,6
PEK_U01 - PEK_U07,	K2AiU_U07 K2AiU_U08 S2AR_U03 ÷ S2AR_U06 S2U_U09 ÷ S2U_U14	C1-3	Pr1 ÷ Pr15	2,3,5
PEK_K01 - PEK_K04	K2AiU_K03 ÷K2AiU_K05 S2AR_K04 ÷ S2AR_K05 S2U_K01 ÷ S2U_K03,	C1-3	Lec.÷Lec15 Pr1 ÷Pr15	1÷6

Annex no 3 to ZW

Faculty of Architecture of WrUT

COURSE SYLLABUS

Acoustics and aerodynamics

Academic major: **Architecture and Urban Planning**
Specializations: Architecture, Urban planning
Study cycle and study mode: Second cycle, full-time / part-time
Course type:obligatory
Course code **AUA105673W**
Group of courses: NO

	Lecture	Tutorial	Lab	Project	Seminar
Number of contact hours	**30**				
Number of student workload hours	**60**				
Grading policy	**Credit**				
ECTS points:	**2**				
Including ECTS points for practical hours (P)					
Including ECTS points for contact hours (CH)	**2**				

PREREQUISITES RELATING TO KNOWLEDGE, SKILLS AND OTHER COMPETENCIES

COURSE OBJECTIVES

C1. to present the knowledge of architectural acoustics that is required to understand the physical phenomena in a building and its elements and to learn the principles of designing partitions in residential and commercial buildings in terms of acoustics, designed to provide the appropriate acoustic comfort in rooms with different functions.

C2. to present elementary knowledge of urban acoustics designed to provide the appropriate acoustic climate in urbanized areas

C3. to present elementary knowledge of aerodynamics and biourbanism designed to provide the appropriate conditions for airflow in urbanized areas

COURSE LEARNING OUTCOMES

Related to knowledge:

PEK_W01 – Demonstrate basic knowledge of thermal and humidity properties of wall structures. Define and explain the basic phenomena related to daylighting and artificial lighting. Demonstrate rudimentary knowledge of acoustics – propagation in open space, interior acoustics, acoustic insulation of walls.

PEK_W02 Demonstrate basic knowledge of aerodynamics, Define and explain basic phenomena pertaining to airflow in open and developed areas. Demonstrate rudimentary knowledge of methods of modelling studies.

Related to major-specific skills:

PEK_U01 – Design a wall with consideration of thermal and humidity requirements. Demonstrate skill in architectural design of sound insulation and proper lighting.

PEK_U02 – Design a building which meets the requirements for airflow around the building. Design architectural and urban developments that shield and dynamize the airflow.

Related to social competencies:

PEK_K01 – Demonstrate an awareness and understanding of the importance of non-technical aspects and consequences of the engineer's and architect's work, including its impact on the environment and the related responsibility for decisions.

CURRICULUM CONTENT		
Mode of teaching - lectures		Numb hours
Lec 1	Introduction to the course. Pollution of environment with noise and vibration. Objectives and tasks of architectural acoustics. Rudimentary knowledge of sound, laws, definitions, units. Principles of sound propagation in open spaces and closed rooms. Criterions for evaluation of noise. Effect of noise on people. Permissible values of sound levels in rooms. Effect of vibrations on humans. Effect of mechanical vibrations on buildings.	2
Lec 2	Basics of acoustic insulation of residential and commercial buildings. Propagation paths of sound in buildings. Methods of implementing noise insulation in buildings. Norm requirements. Principle of locating and planning rooms in buildings. Development of the body and elevation of a building. Choice of external and internal partition solutions. Sound insulation of partitions against airborne and impact sounds. Transmission of sound through partition and between rooms. Effect of flanking sound transmission on sound insulation. Effect of partition structure on its sound insulation.	2
Lec 3	Principles of designing partitions in terms of acoustics. Sound insulation of light weight and heavy weight walls. Sound insulation of ceilings. Floating floors. Light weight floor systems. Sound insulation of windows and balcony doors. Sound insulation of doors.	2
Lec 4	Sound absorbing materials, products and systems. Parameters that define sound absorbing characteristics of materials, products and systems. General principles of application.	2
Lec 5	General principles of insulating rooms against noise from mechanical equipment. Elements of measuring acoustics in buildings	2
Lec 6	Urban acoustics: (general information, protection from noise, estimating communications noise, analysis of acoustic climate – road noise, calculation method, design guidelines)	2
Lec 7	Architectural and urban aerodynamics: (general information, calculation of airflow around the building and their groups, conducting modelling studies, choosing the optimum function of an area with specific wind conditions)	2

Lec 8		1
	Total hours	**15**

TEACHING TOOLS
1. Traditional lecture using transparencies and slides 2. Individual work – study and preparation for the final examination.

ASSESSMENT OF ACHIEVEMENT OF LEARNING OUTCOMES

Assessment (F – formative (during the semester), S – summative (at the end of semester)	Number of learning outcome	Method of assessing the achievement of the learning outcome
P	PEK_W01, PEK_W02 PEK_U01, PEK_U02 PEK_K01, PEK_K02	Written and oral exam

BASIC AND ADDITIONAL LITERATURE

BASIC LITERATURE

[1] Kucharski R.J. Hałas drogowy, WKiŁ,
[2] Sadowski J., Akustyka w urbanistyce, architekturze i budownictwie, Arkady,
[3] Sadowski J., Akustyka architektoniczna, PWN,
[4] Sadowski J., Podstawy akustyki urbanistycznej, Arkady
[5] Praca zbiorowa: 'Budownictwo ogólne', tom 2 'Fizyka budowli', Arkady, Warszawa 2005.
[6] Sadowski J.: Akustyka architektoniczna. PWN, Warszawa 1980.
[7] Szudrowicz B.: Podstawy kształtowania izolacyjności akustycznej pomieszczeń w budynkach mieszkalnych. Prace ITB, Warszawa 1998.
[8] Zakrzewski T.: Akustyka budowlana, Wydawnictwo Politechniki Śląskiej, Gliwice 1997.
[9] Żenczykowski W.: Budownictwo ogólne. Tom 3/1, Arkady, Warszawa 1987.

ADDITIONAL LITERATURE

[1] Puzyna Cz., Ochrona środowiska pracy przed hałasem, t.1 i 2, WNT
[2] Rajpert T., Hałas lotniczy i sposoby jego zwalczania, WKiŁ
[3] Salzer E., Ochrona przed hałasem w miastach,
[4]Makarewicz R.: Dźwięki i fale. Wyd. Naukowe UAM, Poznań 2004.
[5]Śliwińska E.: Środowisko fizyczne człowieka. Oficyna Wydawnicza Politechniki Wrocławskiej, Wrocław 2003.
[6]Current norms and construction law

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EQUIVALENCY MATRIX OF LEARNING OUTCOMES FOR COURSE

Acoustics and aerodynamics

WITH THE LEARNING OUTCOMES FOR THE **Faculty of Architecture** MAJOR

Course learning outcome	Relation of course outcome with learning outcomes formulated for the major and concentration	Course objectives	Curriculum content	Number of teaching tool
PEK_U01	K1AIU_U09	C2	Lec 1	1, 2
PEK_U02	K1AIU_U09	C2	Lec 1	1, 2
PEK_K01	K1AIU_K03	C2	Lec 1	1, 2
PEK_W01	K1AIU_W08,	C2	Lec 1	1, 2
PEK_W02	K1AIU_W08,	C2	Lec 1	1, 2

FACULTY OF ARCHITECTURE

COURSE SYLLABUS

ARCHITECTURAL DESIGN 2 - DESIGNING WORK PLACES - DESIGNING FACILITIES FOR MOTORIZATION

Academic major: **ARCHITECTURE AND URBAN PLANNING**
Specialization: **Architecture, Urban planning**
Course level and study mode: **second cycle, full-time/part-time**
Course type: **obligatory**
Kod przedmiotu: **AUA000010W, AUA000010P**
Group of courses: **NO**

	Lecture	Tutorial	Lab	Project	Seminar
Total number of contact hours	15			60	
Number of student workload hours	30			120	
Grading policy	**Examination**			**pass with grade**	
Mark (X) for final course in a group of courses					
ECTS points:	2			7	
Including ECTS points for practical hours (P)				7	
Including ECTS points for contact hours (CH)	1			3	

PREREQUISITES RELATING TO KNOWLEDGE, SKILLS AND OTHER COMPETENCIES

1. KNOWLEDGE

Knowledge of technical problems related to designing and construction of architectural structures

2. SKILLS: Ability to analyze and evaluate mutual relations of the proposed structure and the surroundings. Ability to apply different technical, structural solutions and materials for presenting architectural concepts. Knowledge of computer-aided architectural design software and ability to use them.

3. OTHER COMPETENCIES: Take into consideration the non-technical aspects of designing facilities for motorization, in particular their positive and negative impact on the natural environment and design.

COURSE OBJECTIVES

C1 - To introduce students to the basic problems and specific character of designing facilities for motorization in the country and abroad

C2- To acquaint students with the influence of requirements of technological processes and technical solutions on the spatial organization of workplaces in large structures for motorization and their influence on communication solutions.

C3- To present problems of applying special structures in architecture of workplaces (in particular – of substantial span), but also modern material and installation solutions.

C4- To develop skills in characterizing and describing solutions for architectural facilities for motorization.

C5- To introduce students to the possible development prospects for developing architectural facilities for motorization resulting from predicted changes in motorization development, using new

sources of energy, sustainable development of design and management.
C6 - To develop skills in designing and presenting medium-complex architectural projects

COURSE LEARNING OUTCOMES

Related to knowledge:

PE_W01: Demonstrate systematic and theoretically grounded general knowledge of designing workplaces in facilities for motorization in an urbanized environment and in rural areas. Demonstrate rudimentary knowledge of technical problems related to designing and creating such structures.

PE_W02: Demonstrate knowledge of features of historic and contemporary architecture of workplaces, with account being taken of diversified aspects of motorization.

PE_W03: Demonstrate general knowledge of the scope and applications of OHS standards and designing hygienic-sanitary rooms in facilities for motorization. Recognize basic regulations pertaining to technical requirements for facilities for communication

PE-W04: Understand the relationships and dependencies between designing facilities for motorization and the non-technical aspects that influence the architectural and urban solutions: social aspects, ecological and environmental aspects, workplace humanization aspects, economics of investment aspects, etc.

Related to skills:

PE_U01: Integrate and creatively interpret technical and non-technical knowledge in solving design problems pertaining to the workplace at an urban and architectural scale.

PE_U02: Create a complex architectural design of a facility for motorization, which takes into consideration the functional and spatial and technical requirements: buildings, structural and installation requirements. Create a simplified technical description for the completed project and present the project.

Related to social competencies:

PE_K01: Demonstrate awareness and understanding of the importance of non-technical aspects and consequences of designing facilities for motorization , in particular the influence on the environment and quality of life contemporary society and the associated responsibility for decisions.

CURRICULUM CONTENT		
Mode of teaching - lectures		**Number of hours**
Lec1	Architecture and motorization – history of mutual inspirations (the role of Le Corbusier, Walter Gropius, Buckminster Fuller, Erich Mendelsohn, Rudolph M. Schidler, F.L. Wright and others)	2
Lec2	Plan for implementation of facilities for motorization, its components, functional zoning	2
Lec3	Car service stations - divisions according of size, representation, functional and spatial program Vehicle inspection stations - divisions, functional and spatial programming	2
Lec4	Car salons; analysis of Polish and foreign examples. General requirements, principles of developing functional system. Semiotics of the living room as commercial structure.	2

Lec5	Liquid fuel stations (FS) - general requirements, classification. Analysis of domestic and international solutions. Architectural structure and structural objectives. Breakpoints (BP), toll stations on motorways (TS) - principles of developing.	2
Lec6	Travelers Service Points (TSP). Classification - types of TSPs, functional and spatial programming, equipment, analysis of domestic and foreign examples. Structures and service equipment for traffic participants (on lower class roads).	2
Lec7	Garages and Car parks - their taxonomy, structural and architectural problems; review of Polish and foreign examples.	2
Lec8	Summary. Problems of protection of the natural environment in technical structures for motorization	1
	Total hours	**15**

Mode of teaching - project		**Number of hours**
Pr1	Choice of project topic; problems of the choice of location for facility for motorization; the course of the technological process and its impact on the spatial concept of the structure;	4
Pr2	Plot development project of the selected facilities for motorization at a scale of 1:500;	4
Pr3	Alternate proposals for development of the plot of the facilities for motorization, methods of their assessment; preliminary spatial solutions for cubic structures.	4
Pr4	Variants of spatial solutions for cubic structures.	4
Pr5	Functional zoning of selected facility for motorization	4
Pr6	Structural and material aspects of facilities for motorization	4
Pr7	The need for flexibility and adaptability of the building,	4
Pr8	Hygienic and social rooms (their programming), rooms for gastronomy in facilities for motorization,	4
Pr9	Hygienic and social rooms	4
Pr10	Communication service for facility, internal traffic, flow of materials and products,	4
Pr11	Auxiliary buildings and structures	4
Pr12	Protection against communications noise, technological solutions in terms of ecology	4
Pr13	Developing the work environment (adequate natural lighting, proper ventilation, appropriate use of color, etc.).	4
Pr14	Development of a shortened version of the technical description of the project	4
Pr15	Graphical presentation of the project.	4
	Total hours	**60**

TEACHING TOOLS
EXAMPLE: N1. for lectures: multimedia presentation, N2. for project: project presentation, consultations

ASSESSMENT OF ACHIEVEMENT OF LEARNING OUTCOMES

Lecture

Assessment (F – formative (during the semester), S – summative (at the end of semester)	Number of learning outcome	Method of assessing the achievement of learning outcome
P	PE_W01, PE_W02, PE_W03, PE_K01	Oral examination - α_1=1
P = α_1 F1 where α_1=1, Σ α = 1		

Project

Assessment (F – formative (during the semester), S – summative (at the end of semester)	Number of learning outcome	Method of assessing the achievement of learning outcome
F1	PE_U01, PE_U02, PE_K01	Assessment of the content quality of the project - α_1=0,6
F2	PE_U02	Assessment for graphic design of the project α_3=0,4
P = α_1 F1 + α_2F2, where α_1=0,6, α_2=0,4, Σ α = 1		

BASIC AND ADDITIONAL LITERATURE

BASIC LITERATURE:

Biedrońska J., Figaszewski J., Kozak K., Lisik A., Mikoś-Rytel W.; *Projektowanie obiektów motoryzacyjnych*, wyd. II, Wydawnictwo Politechniki Śląskiej, Gliwice 2010;

Bykowski J., Krawczyńska E.: Techniczne aspekty projektowania parkingów przy obiektach użyteczności publicznej, Drogownictwo. - 2011 nr 1 s. 8-14

Dawidowicz. L.N.: Projektowanie obiektów zaplecza technicznego transportu samochodowego, Wydawnictwa Komunikacji i Łączności Warszawa, 1975,

Dumnicki J., Laskus E.: Budownictwo zaplecza samochodowego, Instytut Urbanistyki i Architektury (Seria: Budownictwo Komunikacyjne w Mieście), „Arkady", Warszawa, 1970,

Dumnicki J., Kreczmar J.: Samochód w osiedlu: zasady programowania, lokalizowania i kształtowania obiektów obsługi samochodów na terenach mieszkaniowych, Instytut Kształtowania Środowiska, Warszawa 1978;

Dumnicki J., Kreczmar J., Remisz L.S.: Parkingi w miastach, Wydawnictwa Komunikacji i Łączności, Warszawa 1979

Friedemann W.: Kraftfahrzeugbetriebe (Seria: Entwurf und Planung 18), Verlag Georg D.W. Callwey, München, 1973;

Gradkowski K.: Wielopoziomowe budowle parkingów w dużych miastach, Przegląd Komunikacyjny, 2009, nr 4, s. 41-47;

Hauser J.: Zaplecze motoryzacji jako element zespołów osiedleńczych (Seria: Prace Naukowe Instytutu Architektury i Urbanistyki Politechniki Wrocławskiej Monografie; Nr 5), Wydawnictwo Politechniki Wrocławskiej, Wrocław 1978;

Korzeniewski W.: Parkingi i garaże dla samochodów osobowych : wymagania techniczno-prawne, Centralny Ośrodek Informacji Budownictwa, Warszawa 1997;

Kosiorek M.: Wymagania bezpieczeństwa pożarowego dla garaży, Materiały Budowlane. 1998 nr 7 s. 52-53;

Marchwiński J.: Miejsca obsługi podróżnych (MOP). Urbanistyczny i architektoniczny aspekt ich kształtowania, Magazyn Autostrady 2006 nr 3, s.20-26;

Maryański A.: Stacje obsługi samochodów: projektowanie i modernizacja, Wydawnictwa Komunikacji i Łączności, Warszawa 1981;

Michalak H.: Rozwiązanie funkcjonalne i konstrukcyjne garaży wielokondygnacyjnych a efektywność wykorzystania ich powierzchni, Inżynieria i Budownictwo. 2006 nr 5 s. 251-254
Michalak H.: Garaże wielostanowiskowe : projektowanie i realizacja, Wyd. „Arkady", Warszawa, 2009;
Sukniewicz D.: Systemy wielopoziomowego parkowania, Architektura. Murator, 1999 nr 11 s. 89-93;
Ślusarczyk J.: Identyfikacja i ocena nieprawidłowości występujących w parkingach wielopoziomowych, Przegląd Budowlany. - 2011 nr 1 s. 34-39;

Zasady projektowania zdolności usługowych i wielkości podstawowych urządzeń MOP, [w:] Instrukcja zagospodarowania dróg, GDDP, Warszawa 1977, s. 19-26;

Dz.U. 2006.40.0275 (2006.03.10) - rozporządzenie MTiB z dnia 10.02.2006 r. - w sprawie szczegółowych wymagań w stosunku do stacji przeprowadzających badania techniczne pojazdów
Dz.U. 2007.35.200 Rozporządzenie Rady Ministrów z dn. 15.05.2004 r. w sprawie sieci autostrad i dróg ekspresowych

ADDITIONAL LITERATURE:

Henn W., Henn H.: *Obiekty socjalne w zakładach przemysłowych*, Arkady, Warszawa 1974;
Niezabitowska E.: *Architektura i przemysł. Nowe spojrzenie,* Śląsk, Katowice 1997;
Szparkowski Z.: *Architektura współczesnej fabryki*, Oficyna Wydawnicza Politechniki Warszawskiej, Warszawa 1999;

COURSE INSTRUCTOR (NAME, SURNAME, E-MAIL)

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EQUIVALENCY MATRIX OF LEARNING OUTCOMES FOR COURSE
ARCHITECTURAL DESIGN 2 - DESIGNING WORK PLACES - DESIGNING FACILITIES FOR MOTORIZATION
WITH THE LEARNING OUTCOMES FOR ARCHITECTURE AND URBAN PLANNING MAJOR

Learning outcome	Relation of given outcome with learning outcomes formulated for the major	Course objectives	Curriculum content	Number of teaching tool	Assessment method
PE_W01	**K2AiU_W04**	C1, C2,C3, C5	Lec2-Lec8	N1	F1,P1
PE_W02	**K2AiU_W04**	C1, C2,C3, C5,	Lec1	N1	F1,P1
PE_W03	**K2AiU_W04**	C1, C2,C3, C5,	Lec3	N1	F1,P1
PE_W04	**K2AiU_W04**	C1, C2,C3, C5,	Lec8,	N1	F1, P1
PE_U01	**K2AiU_U05**	C2,C3, C4, C5,C6	Pr2 – Pr13, Lec1- Lec8	N1,N5	F2,F3, P2
PE_U02	**K2AiU_U05**	C2,C3, C4, C5,C6	Pr1 – Pr14, Lec2- Lec8	N1,N5	F2,F3, P2
PE_K01	**K2AIU_K03**	C1, C2,C3, C4, C5,C6	Pr12, Pr13,Lec8	N1,N5	(w ocenach)P1, F1,F2,F3, P2

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FACULTY OF ARCHITECTURE

COURSE SYLLABUS

CONSERVATION DESIGN - CONSERVATION OF ARCHITECTURE

Academic major: Architecture and Urban Planning
Specialization: Urban Planning
Study cycle and study mode: second cycle, full-time
Course type: obligatory
Course code AUA 107588W, AUA 107588P
Group of courses No

	Lecture	Tutorial	Lab	Project	Seminar
Number of contact hours	15			45	
Number of student workload hours	60			90	
Grading policy	Examination			pass with grade	
Mark (X) for final course in a group of courses					
ECTS points:	2			3	
including ECTS points for practical hours (P)				3	
including ECTS points for contact hours (CH)	1			1	

PREREQUISITES RELATING TO KNOWLEDGE, SKILLS AND OTHER COMPETENCIES

19. KNOWLEDGE
Students must demonstrate knowledge of the subjects of the history of architecture, and knowledge of solving technical issues related to the design and construction of historic architectural structures.

20. SKILLS:
Demonstrate skills in creating queries in archives and libraries and demonstrate skills in formulating inventory of architectural detail and historic woodwork of windows and doors.

3. COMPETENCIES:
Identify constant values of historic architecture - independent of the era in which it was built

COURSE OBJECTIVES

C1 Reconstruction of the façade of a given historic structure based on outdoor analysis of detail , comparative and iconographic studies and creation fo conservation guidelines
C2 To define the appropriate relations between contemporary architecture and the historic context
C3 To develop general knowledge of the history and conservation of architecture.

COURSE LEARNING OUTCOMES

Related to knowledge:

PEK_W01 Demonstrate systematic and theoretically grounded knowledge that allows preparation of design of façade of historic structures and its description.

PEK_W02 Demonstrate systematic and theoretically grounded knowledge that allows choosing new architectural form for the existing historic context.

Related to skills:

PEK_U01 Demonstrate skills in reconstructing architecture of a historic structure and its description.

PEK_U02 Choose new architectural form to match existing historic development

Related to social competencies:

PEK_K01 Demonstrate awareness of the consequences of social architectural and urban activities for the historic environment and the resulting professional responsibility.

PEK_K02 Identify relations and the meaning of cooperation with specialists in other areas of knowledge and coordination of such activities.

PEK_K03 Understand the necessity to apply methods of social dialogue in design work.

CURRICULUM CONTENT

Mode of teaching - lectures		Number hours
Lec1	*The most important conventions of the world cultural and natural heritage - UNESCO list* , prof. Ewa Łużyniecka	2
Lec2	Basic concepts and definitions relating to the protection of cultural heritage, dr Maciej Małachowicz	2
Lec3	*Conservation problems in professional practice. Research and reconstruction of texture and color* , dr hab. Wojciech Brzezowski.	2
Lec4	*Examples of preservation activities in Germany,* dr Andrzej Legendziewicz	2
Lec5	*The National Preservation Services. Problems of conservation and adaptation of architecture of the 19th and 20th century for the present - on selected examples* dr hab. Krystyna Kirschke	2
Lec6	dr hab. Marzanna Jagiełło – *Restoration of the historic greenery*	2
Lec7	*The urban dimension in the conservation and restoration of monuments,,* dr Paweł Szkoda	2
Lec8	Examination	1
	Total hours	15

Mode of teaching - project		Number hours
Pr1	Assignment and overview of topics of tasks within the project. Task one: reconstruction of façade of a given building based on iconography.	3
Pr2	Consultation and analysis of preliminary façade drawings. In-class work	6
Pr3-8	Consultation and critiques of projects from task one In-class work	15
Pr9	Review of completed projects related to task one and handing out of second task-description of historic facade and conservation guidelines for the design of a modern facade. In-class work	3
Pr 10-12	Consultation and critiques of the second task and conceptual sketches of new facades based on them.	6

Pr13	Review of completed second task, and handing out of the third task-concept of a contemporary façade. In-class work	3
Pr14	Consultations and critiques of third assignment. In-class work	6
Pr15	Review of the completed third assignment and credit for the course. In-class work.	3
	Total hours	45

TEACHING TOOLS
N1. projector N2. laptop N3. monitor

ASSESSMENT OF ACHIEVEMENT OF LEARNING OUTCOMES

Lecture

Assessment (F – formative (during the semester), S – summative (at the end of semester)	Number of learning outcome	Method of assessing the achievement of learning outcome
F1	PEK_W01-PEK_W03; PEK_U01-PEK_U03; PEK_K01-PEK_K02;	Attendance
F2	PEK_W01-PEK_WO3; PEK_U01-PEK_U03; PEK_K01-PEK_K02;	Grade for examination
P - Average grade P= F1 (0,1) +F2(0,9)= 1		

Project

Assessment (F – formative (during the semester), S – summative (at the end of semester)	Number of learning outcome	Method of assessing the achievement of learning outcome
F1	PEK_W01-PEK_WO3; PEK_U01-PEK_U03; PEK_K01-PEK_K02;	Attendance
F2	PEK_W01-PEK_WO3; PEK_U01-PEK_U03; PEK_K01-PEK_K02;	Assessment of task one
F3	PEK_W01-PEK_WO3; PEK_U01-PEK_U03; PEK_K01-PEK_K02;	Assessment of taks 2
F4	PEK_W01-PEK_WO3; PEK_U01-PEK_U03; PEK_K01-PEK_K02;	Assessment of task 3

P - Average grade: P= F1(0,1)+F2(0,5) +F3(0,2)+F4(0,2)=1

BASIC AND ADDITIONAL LITERATURE

BASIC LITERATURE:

[1] *Adaptacja obiektów zabytkowych do współczesnych funkcji użytkowych*, red.B.Szmygin, Warszawa-Lublin 2009
[2] BURGERMEISTER L., *Die Kunstdenkmäler der Stadt Breslau*, Breslau 1930-1934.
[3] BRZEZOWSKI W., *Dom mieszkalny we Wrocławiu w okresie baroku,* Wrocław 2005.
[4] CZERNER O., *Rynek Wrocławski*, Wrocław 1976.
[5] CZERNER O., *Wrocław na dawnej rycinie*, Wrocław-Warszawa-Kraków,Gdańsk-Łódź 1989.
[6] *Dziedzictwo kulturowe fundamentem rozwoju cywilizacji*, Międzynarodowa Konferencja Konserwatorska (Materiały t.1-6), Kraków 2000.
[7] JAGIEŁŁO M., Sgrafitta na Śląsku1540-1650, Wrocław 2003.
[8]KADŁUCZKA A., *Problemy integracji architektury współczesnej z historycznym środowiskiem kulturowym*, Wydawnictwa Politechniki Krakowskiej, Kraków 1982.
[9] KIRSCHKE K., *Fasady wrocławskich obiektów komercyjnych z lat 1890—1930. Faktura – kolorystyka – dekoracja*, Wrocław 2005.
[10] KONWIARZ R., *Alt Schlesien*, Breslau 1906.
[11] LUTSCH H., *Verzeichnis der Kunstdemkmäler der Provinz Schlesien*, Breslau 1886-1903.
[12] MAŁACHOWICZ E., *Konserwacja i rewaloryzacja architektury w środowisku kulturowym,* Wrocław 2007.
[13]MAŁACHOWICZ E., *Ochrona środowiska kulturowego*, t.1 i 2, Warszawa 1988.
[14] MAŁACHOWICZ E., *Stare Miasto we Wrocławiu. Zniszczenia wojenne i odbudowa*, Wrocław 1985.
[15] MARZĘCKI W., *Ciągłość kulturowa w kształtowaniu przestrzeni miejskiej. Charakterystyka i metoda oceny jakości i zmienności tej przestrzeni*, Szczecin 2002.
[16] MĄCZEŃSKI Z., *Elementy i detale architektoniczne w rozwoju historycznym*, Warszawa 1956.
[17] *Odbudowa miast historycznych. Dokonania przeszłości. Potrzeby i możliwości współczesne. Wyzwania przyszłości*, red.M.Lubocka-Hoffmann , Elbląg 1998
[18] *Postęp i nowoczesność w konserwacji zabytków, problemy-perspektywy*, Lublin 2005
[19] Pr. zb., *Atlas Architektury Wrocławia*, t. 1 i 2, Wrocław
[20] Pr. zb., *Słownik terminów sztuk pięknych*, pod red. St. Kozakiewicza, Warszawa 1996 (wyd. III).
[21] *Raport o systemie ochrony dziedzictwa kulturowego w Polsce po roku 1989*, red. J. Purchla, Warszawa2000
[22] STEIN R., *Der Große Ring zu Breslau*, Breslau 1935.
[23] STEIN R., *Das Breslauer Bürgerhaus*, Breslau 1935.
[24] STEIN R., *Das Bürgerhaus in Schlesien*, Tübingen 1966.
[25] *System ochrony zabytków w Polsce - analiza, diagnoza, propozycje*, red. B.Szmygin, Lublin-Warszawa 2011
[26] *Wyjątkowa uniwersalna wartość a monitoring dóbr światowego dziedzictwa*, Warszawa 2011

ADDITIONAL LITERATURE:

[1] PORTFOLIOS: Palladio, Vitruwiusz, Vignola,
[2] HANDBOOKS Handbuch der Architektur
[3] Archival Photographs showing the appearance of the building of Wroclaw and Silesian towns before World War II: (including the Internet).
[4] Current architectural magazines showing current trends in the design of new architecture in historic surroundings.
[5] *Biuletyn informacyjny PKN ICOMOS*, www//icomos.poland

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EQUIVALENCY MATRIX OF LEARNING OUTCOMES FOR COURSE
CONSERVATION DESIGN - CONSERVATION OF ARCHITECTURE
WITH THE LEARNING OUTCOMES FOR ARCHITECTURE AND URBAN PLANNING MAJOR
AND SPECIALIZATION Urban Planning

Lecture

Course learning outcome	Relation of course outcome with learning outcomes formulated for the major	Course objectives***	Curriculum content***	No. of teaching tool***
PEK_W01 (knowledge)	S2AR_W01, S2AR_W03, S2AR_W04,	C2, C3	Lec1, Lec2,Wy,6,Lec7	N1-N3
PEK_W02	S2AR_W01, S2AR_W03, S2AR_W04,	C2	Lec4,Lec5,Lec3	N1-N3
PEK_U02	S2AR_U03	C2, C3	Lec1, Lec2,Wy,6,Lec7	N1-N3
PEK_K01	S2AR_K01, S2AR_K02	C2	Lec1, Lec2,Wy,4,Lec7	N1-N3
PEK_K02	S2AR_K01, S2AR_K02	C2	Lec1, Lec2,Wy,4,Lec7	N1-N3
PEK_K03	S2AR_K01, S2AR_K02	C2	Lec2,Wy,4,Lec7	N1-N3

Project

Course learning outcome	Relation of course outcome with learning outcomes formulated for the major	Course objectives	Curriculum content	No. teaching tool
PEK_W01 (knowledge)	S2AR_W01,S2AR_W04, S2AR_W03, S2AR_W08,	C2, C3	Pr1-Pr8	N1-N3
PEK_W02	S2AR_W04, S2AR_W08	C1, C2	Pr9-Pr15	N1-N3
PEK_U01 (skills)	S2AR_U01, S2AR_U03	C1,C2	Pr1-Pr12	N1-N3
PEK_U02	S2AR_U03, S2AR_U04	C2,C3	Pr13-Pr14	N1-N3
PEK_K01 (competencies)	S2AR_K01, S2AR_K02	C1,C2	Pr1-Pr15	N1-N3
PEK_K02	S2AR_K02	C1,C2	Pr1-Pr15	N1-N3
PEK_K03…	S2AR_K01	C2	Pr1-Pr15	N1-N3

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FACULTY OF ARCHITECTURE

COURSE SYLLABUS
SPATIAL PLANNING

Academic major: **ARCHITECTURE AND URBAN PLANNING**
Study cycle and study mode: second cycle, full-time
Course type:obligatory
Course code: AUA105056W, AUA105055P
Group of courses: NO

	Lecture	Tutorial	Lab	Project	Seminar
Number of contact hours	15			45	
Number of student workload hours	60			90	
Grading policy	Examination			credit	
ECTS points:	**2**			3	
including ECTS points for practical hours (P)				3	
including ECTS points for contact hours (CH)	1			1	

PREREQUISITES RELATING TO KNOWLEDGE, SKILLS AND OTHER COMPETENCIES

1. KNOWLEDGE

Knowledge of issues of history and theory of architecture, urban planning, Understand the investment process.

2. SKILLS:

Ability to shape the residential environment of man. Skills in designing at an architectural and urban scale.

3. OTHER COMPETENCIES:

Awareness of social, cultural, ecological effects of making design decisions.

COURSE OBJECTIVES

C1. The aim of the course is to acquaint students with the circumstances of spatial development which stem from the complexity of urban planning.

C2. To present the principles of creating and implementing spatial policy at the national, regional level and in other structural units.

C3. To gain experience in developing analysis and preparing spatial development plans.

COURSE LEARNING OUTCOMES

Related to knowledge:

PEK_W01: Demonstrate knowledge of determinants of spatial policy at the national, regional level and in other structural units.

PEK_W02: Identify systemic problems of spatial development.

PEK_W03: Demonstrate knowledge of contemporary trends in sustainable spatial development.

Related to skills:

PEK_U01: Analyze and evaluate the state of spatial development

PEK_U02: Interpret planning arrangements.

PEK_U03: Identify functional and spatial structures.

PEK_U04: Prepare land use plans.

Related to social competencies:

PEK_K01: Work in a project team.

PEK_K02: Critically analyze available information.

PEK_K03: Justify the choice of design solution variant.

CURRICULUM CONTENT		
Mode of teaching - lectures		**Number hours**
Lec1	Objectives and instruments of spatial planning. The essence of the systemic approach. Interdisciplinary character of theoretical base. Global, region and national dimension of spatial planning. Competencies of local governments. Specialist certification.	2
Lec2	Planning stages: analysis, diagnosis, prognosis, design, implementation. Interdisciplinary character of studies. Scope of original analysis and specialist expertise. Competencies of an architect.	2
Lec3	Analysis of natural and anthropogenic factors. Scope and role of specialist studies. Determining the “spatial potential": identity of a place, predispositions to transformation.	2
Lec4	Specificity of urbanized space. City: roles, categories of functions, development cycles. Transformation trends of urban	2

	space. Metropolitan areas. New cities: ideas of incorporation, economic and ecological conditions.	
Lec5	The transport system: task, efficiency, cost-effectiveness. Description of types of transport, contemporary problems and development trends. Hierarchy of the communication system.	2
Lec6	(Workplaces) Factors that determine the location of areas and structures serving economic activities. Transformation processes: de-industrialization, reindustrialization suburbanization, concentration. Specificity of concentration zones of advanced technology industry. Services in hierarchical systems. Concentrations of services in urban central areas.	2
Lec7	City as the man's living environment: assessment criteria, development laws, urbanization stages. Standard for residential areas and green areas. Contemporary trends and public needs.	**2**
Lec8	Problems with applying spatial planning in practice. Free market mechanisms. The effects of the implementation of spatial policy. Requirements pertaining to sustainable development.	**1**
	Total hours	**15**
Mode of teaching - project		**Number hours**
Pr1	Organizational matters: course topics, literature, schedule, course completion requirements. Presentation of example projects. Choice of topic of design study.	3
Pr2	Urban inventory. Establishment of scope of study tasks and analysis.	3
Pr3	Identification of problems of development for selected space. Functional and spatial relations in the region. Space evaluation.	3
Pr4	System analysis and diagnosis: communication, residential housing, workplaces (industry, economic activities, services), greenery.	3
Pr5	Aggregate of the conclusions of analysis (predisposition of areas, possibilities of functional and spatial transformations). Variants of spatial development.	3
Pr6	Submission 1 - review of project progress.	3

Pr7	Choice of variant for further study. Critique of distribution of elements of functional and spatial structure. Scope of transformations of existing investments.	3
Pr8	Hierarchy of the communication system. Establishment of zones for workplaces: (nodal areas, lines of concentration).	3
Pr9	In-class work on a given topic.	3
Pr10	Critique of the compositional system: diversification of urban complexes, main urban interiors and their relationship.	3
Pr11	Continuity of green areas and attractiveness of the recreation and sports program. Structure of residential areas.	3
Pr12	Submission 2 - presentation of project and discussion.	3
Pr13	Critique of project proposals.	3
Pr14	Developing drawings and texts for individual panels. Implementation of analysis to check the correctness of systems:	3
Pr15	Graded project Credit for the course	3
	Total hours	**45**

TEACHING TOOLS
N1. Lecture: paper presentation supported by multimedia presentation
N2. Project: consultation
N3. Project: presentations of examples of studies
N4. Project: presentation of projects and discussion.

ASSESSMENT OF ACHIEVEMENT OF LEARNING OUTCOMES

Lecture

Assessment (F - formative (during the semester), S - summative (at the end of semester)	Number of learning outcome	Method of assessing the achievement of learning outcome
P	PEK_W01, PEK_W02, PEK_W03, PEK_U01, PEK_U02	Written exam
$P=a_1F$ where $a_1=1$, $\sum a=1$		

Project

Assessment (F – formative (during the semester), S – summative (at the end of semester)	Number of learning outcome	Method of assessing the achievement of learning outcome
F1	PEK_U01, PEK_U02, PEK_U03, PEK_K01, PEK_K02	Assessment of the 1st stage of design: analysis and project versions
F2	PEK_U04	Assessment of skills in working in the classroom: in-class assignment
F3	PEK_U04, PEK_K01, PEK_K03	Assessment of the 2nd stage of design: project and presentation
P=a1F2 + a2F3 + a3F4 gdzie a1=0.3, a2=0.2, a3=0.5, ∑a=1		

BASIC AND ADDITIONAL LITERATURE

BASIC LITERATURE:

[130] Böhm A., *Planowanie przestrzenne dla architektów krajobrazu. O czynniku kompozycji* .Kraków 2006

[131] Chmielewski J. M., *Teoria urbanistyki w projektowaniu i planowaniu miast.* Warszawa 2001.

[132] Czarnecki W., *Planowanie miast i osiedli,* Warszawa 1964-65.

[133] Słodczyk J., *Przestrzeń miasta i jej przeobrażenia,* Opole 2001.

[134] Zipser T., *Zasady planowania przestrzennego,* Wrocław 1983.

ADDITIONAL LITERATURE:

[84] Adamczewska-Wejchert H., Wejchert K., *Małe miasta,* Warszawa 1986.

[85] Beaujeu-Garnier J., *Zarys geografii miast,* Warszawa 1971.

[86] Benevolo L., *Miasto w dziejach Europy,* Warszawa 1995.

[87] Malisz B., *Zarys teorii kształtowania układów osadniczych,* Warszawa 1981.

[88] Ossowicz T., *Metoda ustalania przedsięwzięć polityki przestrzennej wielkiego miasta,* Wrocław 2003.

COURSE ADVISOR (NAME, SURNAME, E-MAIL)

Regina Maga-Jagielnicka PhD, regina.maga-jagielnicka@pwr.wroc.pl

EQUIVALENCY MATRIX OF LEARNING OUTCOMES FOR COURSE
SPATIAL PLANNING
WITH THE LEARNING OUTCOMES FOR ARCHITECTURE AND URBAN PLANNING MAJOR

Course learning outcome	Relation of course outcome with learning outcomes formulated for the major and concentration	Course objectives	Curriculum content	No. of teaching tool
PEK_W01	K2AiU_W07, S2AiU_W01, S2U_W02, S2U_W10, S2U_W12	C1, C2	Lec1-Lec4, Pr1-Pr3	N1, N3
PEK_W02	K2AiU_W06, K2AiU_W03, S2AiU_W06, S2U_W08, S2U_W12	C2, C3	Lec5-Lec7, Pr4, Pr7, Pr8, Pr15	N1, N2, N3
PEK_W03	K2AiU_W06, K2AiU_W07, S2AiU_W05, S2U_W03	C1, C3	Lec7, Lec8, Pr5	N1, N2, N3
PEK_U01	K2AiU_U07, S2AiU_U03, S2U_U02, S2U_U11, S2U_U12, S2U_U14	C3	Pr3-Pr5	N2
PEK_U02	K2AiU_U08, S2AiU_U03, S2U_U03	C2	Pr3, Pr9	N2
PEK_U03	K2AiU_U07, S2AiU_U03, S2U_U04	C1, C3	Pr3	N2
PEK_U04	K2AiU_U08, S2AiU_U05, S2U_U05, S2U_U10	C3	Pr6-Pr15	N2, N4
PEK_K01	K2AiU_K02, S2AiU_K01, S2U_K01	C3	Pr2-Pr15	N2, N3, N4,
PEK_K02	K2AiU_K02, S2AiU_K02, S2U_K01	C1, C3	Pr2-Pr5	N2
PEK_K03	K2AiU_K03, K2AiU_K04, K2AiU_ K05, S2AiU_K01, S2U_K03	C2	Pr5-Pr7	N2

Faculty of Architecture and Urban Planning

COURSE DESCRIPTION

MODERN BUILDING TECHNOLOGIES

Course title in English: Modern Building Technologies
Academic major: ARCHITECTURE AND URBAN PLANNING
Study cycle and study mode: Second cycle, full-time / part-time
Course type:obligatory
Course code AUA105674W
Group of courses No

	Lecture	Tutorial	Lab	Project	Seminar
Number of contact hours	15				
Number of student workload hours	30				
Grading policy	pass with grade				
Mark (X) for final course in a group of courses					
ECTS points:	**1**				
including ECTS points for practical hours (P)					
including ECTS points for contact hours (CH)	1				

PREREQUISITES RELATING TO KNOWLEDGE, SKILLS AND OTHER COMPETENCIES

21. Demonstrate knowledge of physics of buildings and general building engineering, which enable designing typical elements of a building.
22. Apply the rules of construction and use the building standards. Identify and apply provisions of the building code
23. Use construction documentation and create its selected elements

COURSE OBJECTIVES

C1 - To acquaint students with modern architectural and technological solutions used in low-energy buildings.
C2 To develop skills in solving engineering problems related to creating different forms of building shape designed to limit heat loss and provide rational energy savings
C3 To learn and develop skills in applying modern material and structural solutions in contemporary architecture.

COURSE LEARNING OUTCOMES

Related to knowledge:
PEK_W01 – Demonstrate advanced knowledge of modern building technologies
Related to social competencies:
PEK_K01 - Understand the importance of lifelong learning, inspire and organize the learning process of others
PEK_K02 – Understand the responsibility for one's work

Mode of teaching - lectures		Number of hours
Lec 1	Modern architectural and construction solutions based on low-energy-consuming technologies. Basic solutions of energy-saving buildings. Energy quality of buildings	2
Lec2	Low-energy house, passive house and equivalent notions	2
Lec 3	Structure of full and glazed partitions in low energy buildings.	2
Lec 4	Contemporary technologies of developing flat systems of timber, stone, ceramics, concrete, reinforced concrete, steel	2
Lec 5	Contemporary technologies of developing spatial systems of timber, stone, concrete, reinforced concrete, steel, glass	2
Lec 6	Modern technologies of developing complex construction systems	2
Lec7	Principle of developing systems of glass, metal façades and composite.	2
Lec 8	Final test	1
	Total hours	**15**

TEACHING TOOLS
N1. Educational lecture, multimedia presentations N2. Individual work – study and preparation for the final test.

ASSESSMENT OF ACHIEVEMENT OF LEARNING OUTCOMES

Lecture

Assessment (F – formative (during the semester), S – summative (at the end of semester)	Number of learning outcome	Method of assessing the achievement of learning outcome
F1	PEK_W01	Test $\alpha_1=1$
P1=F1 α_1, where $\alpha_1=1$, $\sum \alpha = 1$		

BASIC AND ADDITIONAL LITERATURE

BASIC LITERATURE

[1] Klasztorny M., *Mechanika* D W E s. c. Wrocław 2000 r.

[2] Mielczarek Z., *Nowoczesne konstrukcje w budownictwie ogólnym* Arkady Warszawa 2001

[3] Pfammatter U., *BUILDING THE FUTURE*, Prestel Verlag, Munich-Berlin-London- New York 2008

[4] Berger H., *Light Structures-Structures of Light .The Art and Engineering of Tensil Architecture*, Basle 1996

[5] Behling S.,and St.(eds), *Glas.Konstruktion und Technologie in der Architectur*, Munich 1999

ADDITIONAL LITERATURE

[1] Campagno A., *Intelligente Glasfassaden. Material,Anwendung, Gestaltung*, Basle 2002

[2] Elliott C., D., *Technics and Architekture.The Development of Materials and Systems for buildings*, Cambridge, Mass, London 1992

[3] Kaltenbach F., *Translucent Materials.Glass, Plastic, Metals*, Basle 2004, (edition Detail)

COURSE ADVISOR

Elżbieta Przesmycka, PhD elzbieta.przesmycka@pwr.wroc.pl

EQUIVALENCY MATRIX OF LEARNING OUTCOMES FOR COURSE
MODERN BUILDING TECHNOLOGIES
WITH THE LEARNING OUTCOMES FOR ARCHITECTURE AND URBAN PLANNING MAJOR

Course learning outcome	Relation of course outcome with learning outcomes formulated for the major **and specialization**	**Course objectives**	**Curriculum content**	**No. of teaching tool**
PEK_W01 (knowledge)	, K2AiU_W02, K2AiU_W08 S2AR_W08	C1-C3	Lec1-Lec8	N1, N2
PEK_K01 (competencies)	K_K01, K2AiU_K01, K2AIU_K02	C1-C3	Lec1-Lec8	N1, N2
PEK_K02	K_K02, K_K03, K2AIU_K03, K2AIU_K05	C1-C3	Lec1-Lec8	N1, N2

FACULTY OF ARCHITECTURE

COURSE SYLLABUS

TECHNOLOGY 3 - CONSERVATION TECHNIQUES AND TECHNOLOGIES

Academic major: ARCHITECTURE AND URBAN PLANNING
Specialization: HERITAGE PROTECTION
Course level and study mode: second cycle, full-time
Course type: obligatory
Course code AUA 105676S
Group of courses No

	Lecture	Tutorial	Lab	Project	Seminar
Total number of contact hours					30
Number of student workload hours					30
Grading policy					pass with grade
Mark (X) for final course in a group of courses					
ECTS points:					1
Including ECTS points for contact hours (CH)					1

PREREQUISITES RELATING TO KNOWLEDGE, SKILLS AND OTHER COMPETENCIES

General knowledge of the causes of the destruction of architectural heritage conservation and basic research.

COURSE OBJECTIVES

C1 - To develop knowledge of chosen conservation techniques.

C2 –To present problems related to choice of appropriate conservation technologies
C3 - To familiarize students with the directions of the development of techniques and technologies of conservation
C4.To develop knowledge of methods and technologies of reinforcing and repairing individual structural elements of objects of general construction.
C5 - To develop skills in designing and presenting appropriately chosen conservation technology

COURSE LEARNING OUTCOMES

Related to knowledge:

PEK_W01 Demonstrate broad and in-depth knowledge of selected areas of chemistry and physics of buildings, which is necessary to understand engineering and conservation problems. Understand the processes occurring in historic and contemporary construction and conservation materials as well as their structure.

PEK_W02 Demonstrate theoretically grounded detailed knowledge of reconstructing, reinforcing and preserving historic architectural sites, historic wooden, brick and stone structures, acceptable from the point of view of conservation doctrine.

Related to skills:

PEK_U01 Identify the basic threats and physical and chemical factors causing decomposition of materials in historic buildings and to determine technical and technological methods of their protection and conservation; verify the use of conservation materials and chemical preparations.

PEK_U02 Identify the basic threats and physical and chemical factors causing decomposition of building materials, including those in historic buildings and

technical and technological methods of protecting and preserving them; verify the use of conservation materials and chemical preparations.

Related to social competencies:

PEK_K01 Understand the need to popularize pro-conservation attitudes in society, focused on protection of the cultural and architectural heritage and landscape and promotion of their high social usability.

PEK_K02 Demonstrate awareness of the role of cultural and architectural heritage for the civilization and identity of society.

CURRICULUM CONTENT		
Mode of teaching - seminar		**Number of hours**
Se 1	Introduction, requirements. Conservation of historic wood.	2
Se 2	Conservation research and treatment of historic wooden structures.	2
Se 3	Preventive conservation of stone and brick historic buildings - pre-restoration treatments.	2
Se 4	Technology of stucco work and painting.	2
Se 5	Protection of polychrome.	2
Se 6 Se 7	Removing surface layers.	4
Se 8	Desalination of walls.	2
Se 9	Protection against the destructive effect of ground water.	2
Se 10	Strengthening of ground under historic buildings.	2
Se 11	Strengthening and rebuilding of the foundation.	2
Se 12	Reinforcing walls.	2
Se 13	Strengthening lintels, columns, pillars, bows.	2
Se 14	Strengthening of vaults and domes.	2
Se 15	Test	2
	Total hours	**30**

TEACHING TOOLS
N1. Multimedia presentations N2. Interactive lecture. N3. Presentation of paper by student.

ASSESSMENT OF ACHIEVEMENT OF LEARNING OUTCOMES

Assessment (F – formative (during the semester), S – summative (at the end of semester)	Number of learning outcome	Method of assessing the achievement of learning outcome
F1	S2OZ_W01	Assessment of the oral presentation - participation during classes - $\alpha_{1=}0,2$
F2	S2OZ_W01 S2OZ_W02 S2OZ_U02	Assessment of test (Se15) $\alpha_{1=}0,6$
F3	S2OZ_U01 S2OZ_U02	Assessment for the presentation of problems covered by the paper - $\alpha_{2=}0,2$
$P = \alpha_1 F1 + \alpha_2 F2 + \alpha_3 F3$, where $\alpha_1=0,2$; $\alpha_2=06$; $\alpha_3=02$; $\Sigma \alpha = 1$		

BASIC AND ADDITIONAL LITERATURE

BASIC LITERATURE:

[135] J. Ważny, J. Karyś - Ochrona budynków przed korozją biologiczną. Warszawa 2001.
[136] W. Domasłowski - Profilaktyczna konserwacja kamiennych obiektów zabytkowych. Toruń 1993.
[137] Pod red. W. Domasłowski - Zabytki kamienne i metalowe, ich niszczenie i konserwacja profilaktyczna. Toruń 2011.
[138] Pod red. M. Kamiński, J. Jasiczak, W. Buczkowski, T. Błaszczyński - Współczesne metody naprawcze w obiektach budowlanych. Wrocław 2009.
[139] W. Domasłowski, M. Kęsy - Lewandowska, J. W. Łukaszewicz - Badanie nad konserwacją murów. Toruń 1998.
[140] Problemy remontowe w budownictwie ogólnym i obiektach zabytkowych, XI Konferencja Naukowo-Techniczna. Wrocław 2006.
[141] Pod red. M. Kamiński, J. Jasiczak, W. Buczkowski, T. Błaszczyński - Współczesne metody napraw w obiektach budowlanych. Wrocław 2009.
[142] E. Masłowski, D. Spiżewska, - Wzmocnienie konstrukcji budowlanych. Warszawa 2000.

ADDITIONAL LITERATURE:

[89] Od badań do konserwacji. Materiały konferencji Toruń 23 - 24 października 1998. Toruń 2002.
[90] Pod red. B. Szmygin - Trwała ruina II. Problemy utrzymania i adaptacji. Ochrona, konserwacja i adaptacja zabytkowych murów. Lublin - Warszawa 2010.
[91] W. Domasłowski - Spoinowanie murów ceglanych. Toruń 1998.
[92] J. Ważny, Jerzy Kurpik - Konserwacja drewna zabytkowego w Polsce. Ochrona Zabytków nr 1-2/2004.
[5] W. Borusiewicz - Konserwacja zabytków budownictwa murowanego. warszawa 1971.

COURSE INSTRUCTOR (NAME, SURNAME, E-MAIL)

Teresa Dziedzic PhD, teresa.dziedzic@pwr.wroc.pl

EQUIVALENCY MATRIX OF LEARNING OUTCOMES FOR COURSE
TECHNOLOGY 3 - CONSERVATION TECHNIQUES AND TECHNOLOGIES
WITH THE LEARNING OUTCOMES FOR ARCHITECTURE AND URBAN PLANNING MAJOR SPECIALIZING IN HERITAGE PROTECTION

Course learning outcome	Relation of course outcome with learning outcomes for the major and specialization	Course objectives	Curriculum content	No. teaching tool
KNOWLEDGE				
PEK_W01	S2OZ_W10 S2OZ_W12	C1, C5	Se1-Se14	N1, N4
PEK_W02	S2OZ_W11 S2OZ_W12	C1,C2,C3	Se1-Se14	N1, N4
SKILLS:				
PEK_U01	S2OZ_U09	C1, C5	Se1-Se14	N1, N4
PEK_U02	S2OZ_U10	C1,C2,C3	Se1-Se14	N1, N4
COMPETENCIES:				
PEK_K01	S2OZ_K02	C1, C3	Se1-Se15	N1, N4
PEK_K02	S2OZ_ K02	C1, C3	Se1-Se15	N1, N4

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FACULTY OF ARCHITECTURE

COURSE SYLLABUS
SPATIAL PLANNING

Academic major: **ARCHITECTURE AND URBAN PLANNING**
Study cycle and study mode: second cycle, full-time
Course type:obligatory
Course code: AUA105056W, AUA105055P
Group of courses: NO

	Lecture	Tutorial	Lab	Project	Seminar
Number of contact hours	15			45	
Number of student workload hours	60			90	
Grading policy	Examination			credit	
ECTS points:	**2**			3	
including ECTS points for practical hours (P)				3	
including ECTS points for contact hours (CH)	1			1	

PREREQUISITES RELATING TO KNOWLEDGE, SKILLS AND OTHER COMPETENCIES

1. KNOWLEDGE
Knowledge of issues of history and theory of architecture, urban planning, Understand the investment process.
2. SKILLS:
Ability to shape the residential environment of man. Skills in designing at an architectural and urban scale.
3. OTHER COMPETENCIES:
Awareness of social, cultural, ecological effects of making design decisions.

COURSE OBJECTIVES

C1. The aim of the course is to acquaint students with the circumstances of spatial development which stem from the complexity of urban planning.
C2. Understand the principles of creating and implementing spatial policy at the national, regional level and in other structural units.
C3. Gaining experience in developing analysis and preparing spatial development plans.

COURSE LEARNING OUTCOMES

Related to knowledge:

PEK_W01: Demonstrate knowledge of determinants of spatial policy at the national, regional level and in other structural units.

PEK_W02: Identify systemic problems of spatial development.

PEK_W03: Demonstrate knowledge of contemporary trends in sustainable spatial development.

Related to skills:

PEK_U01: Analyze and evaluate the state of spatial development

PEK_U02: Interpret planning arrangements.

PEK_U03: Identify functional and spatial structures.

PEK_U04: Prepare land use plans.

Related to social competencies:

PEK_K01: Work in a project team.

PEK_K02: Critically analyze available information.

PEK_K03: Justify the choice of design solution variant.

CURRICULUM CONTENT		
Mode of teaching - lectures		**Number hours**
Lec1	Objectives and instruments of spatial planning. The essence of the systemic approach. Interdisciplinary character of theoretical base. Global, region and national dimension of spatial planning. Competencies of local governments. Specialist certification.	2
Lec2	Planning stages: analysis, diagnosis, prognosis, design, implementation. Interdisciplinary character of studies. Scope of original analysis and specialist expertise. Competencies of an architect.	2
Lec3	Analysis of natural and anthropogenic factors. Scope and role of specialist studies. Determining the “spatial potential": identity of a place, predispositions to transformation.	2
Lec4	Specificity of urbanized space. City: roles, categories of functions, development cycles. Transformation trends of urban space. Metropolitan areas. New cities: ideas of incorporation, economic and ecological conditions.	2
Lec5	The transport system: task,efficiency, cost-effectiveness. Description of types of transport, contemporary problems and development trends. Hierarchy of the communication system.	2
Lec6	(Workplaces) Factors that determine the location of areas and structures serving economic activities. Transformation processes: de-industrialization, reindustrialization suburbanization, concentration. Specificity of concentration zones of advanced technology industry. Services in hierarchical systems. Concentrations of services in urban central areas.	2
Lec7	City as the mans living environment: assessment criteria, development laws, urbanization stages. Standard for residential areas and green areas. Contemporary trends and public needs.	**2**
Lec8	Problems with applying spatial planning in practice. Free market mechanisms. The effects of the implementation of spatial policy. Requirements pertaining to sustainable development.	**1**
	Total hours	**15**

Mode of teaching - project		Number hours
Pr1	Organizational matters: course topics, literature, schedule, course completion requirements. Presentation of example projects. Choice of topic of design study.	3
Pr2	Urban inventory. Establishment of scope of study tasks and analysis.	3
Pr3	Identification of problems of development for selected space. Functional and spatial relations in the region. Space evaluation.	3
Pr4	System analysis and diagnosis: communication, residential housing, workplaces (industry, economic activities, services), greenery.	3
Pr5	Aggregate of the conclusions of analysis (predisposition of areas, possibilities of functional and spatial transformations). Variants of spatial development.	3
Pr6	Submission 1 – review of project progress.	3
Pr7	Choice of variant for further study. Critique of distribution of elements of functional and spatial structure. Scope of transformations of existing investments.	3
Pr8	Hierarchy of the communication system. Establishment of zones for workplaces: (nodal areas, lines of concentration).	3
Pr9	In-class work on a given topic.	3
Pr10	Critique of the compositional system: diversification of urban complexes, main urban interiors and their relationship.	3
Pr11	Continuity of green areas and attractiveness of the recreation and sports program. Structure of residential areas.	3
Pr12	Submission 2 - presentation of project and discussion.	3
Pr13	Critique of project proposals.	3
Pr14	Developing drawings and texts for individual panels. Implementation of analysis to check the correctness of systems:	3
Pr15	Graded project Credit for the course	3
	Total hours	**45**

TEACHING TOOLS
N1. Lecture: paper presentation supported by multimedia presentation N2. Project: consultation N3. Project: presentations of examples of studies N4. Project: presentation of projects and discussion.

ASSESSMENT OF ACHIEVEMENT OF LEARNING OUTCOMES

Lecture

Assessment (F – formative (during the semester), S – summative (at the end of semester)	Number of learning outcome	Method of assessing the achievement of learning outcome
P	PEK_W01, PEK_W02, PEK_W03,	Written exam

	PEK_U01, PEK_U02	
$P=a_1F$ where $a_1=1$, $\sum a=1$		

Project

Assessment (F – formative (during the semester), S – summative (at the end of semester)	Number of learning outcome	Method of assessing the achievement of learning outcome
F1	PEK_U01, PEK_U02, PEK_U03, PEK_K01, PEK_K02	Assessment of the 1st stage of design: analysis and project versions
F2	PEK_U04	Assessment of skills in working in the classroom: in-class assignment
F3	PEK_U04, PEK_K01, PEK_K03	Assessment of the 2nd stage of design: project and presentation
P=a1F2 + a2F3 + a3F4 gdzie a1=0.3, a2=0.2, a3=0.5, ∑a=1		

BASIC AND ADDITIONAL LITERATURE

BASIC LITERATURE:

[143] Böhm A., *Planowanie przestrzenne dla architektów krajobrazu. O czynniku kompozycji* .Kraków 2006

[144] Chmielewski J. M., *Teoria urbanistyki w projektowaniu i planowaniu miast.* Warszawa 2001.

[145] Czarnecki W., *Planowanie miast i osiedli,* Warszawa 1964-65.

[146] Słodczyk J., *Przestrzeń miasta i jej przeobrażenia,* Opole 2001.

[147] Zipser T., *Zasady planowania przestrzennego,* Wrocław 1983.

ADDITIONAL LITERATURE:

[93] Adamczewska-Wejchert H., Wejchert K., *Małe miasta,* Warszawa 1986.

[94] Beaujeu-Garnier J., *Zarys geografii miast,* Warszawa 1971.

[95] Benevolo L., *Miasto w dziejach Europy,* Warszawa 1995.

[96] Malisz B., *Zarys teorii kształtowania układów osadniczych,* Warszawa 1981.

[97] Ossowicz T., *Metoda ustalania przedsięwzięć polityki przestrzennej wielkiego miasta,* Wrocław 2003.

COURSE ADVISOR (NAME, SURNAME, E-MAIL)

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EQUIVALENCY MATRIX OF LEARNING OUTCOMES FOR COURSE
SPATIAL PLANNING
WITH THE LEARNING OUTCOMES FOR ARCHITECTURE AND URBAN PLANNING MAJOR

Course learning outcome	Relation of course outcome with learning outcomes formulated for the major and concentration	Course objectives	Curriculum content	No. of teaching tool
PEK_W01	K2AiU_W07, S2AiU_W01, S2U_W02, S2U_W10, S2U_W12	C1, C2	Lec1-Lec4, Pr1-Pr3	N1, N3
PEK_W02	K2AiU_W06, K2AiU_W03, S2AiU_W06, S2U_W08, S2U_W12	C2, C3	Lec5-Lec7, Pr4, Pr7, Pr8, Pr15	N1, N2, N3
PEK_W03	K2AiU_W06, K2AiU_W07, S2AiU_W05, S2U_W03	C1, C3	Lec7, Lec8, Pr5	N1, N2, N3
PEK_U01	K2AiU_U07, S2AiU_U03, S2U_U02, S2U_U11, S2U_U12, S2U_U14	C3	Pr3-Pr5	N2
PEK_U02	K2AiU_U08, S2AiU_U03, S2U_U03	C2	Pr3, Pr9	N2
PEK_U03	K2AiU_U07, S2AiU_U03, S2U_U04	C1, C3	Pr3	N2
PEK_U04	K2AiU_U08, S2AiU_U05, S2U_U05, S2U_U10	C3	Pr6-Pr15	N2, N4
PEK_K01	K2AiU_K02, S2AiU_K01, S2U_K01	C3	Pr2-Pr15	N2, N3, N4,
PEK_K02	K2AiU_K02, S2AiU_K02, S2U_K01	C1, C3	Pr2-Pr5	N2
PEK_K03	K2AiU_K03, K2AiU_K04, K2AiU_ K05, S2AiU_K01, S2U_K03	C2	Pr5-Pr7	N2

Faculty of Architecture and Urban Planning

COURSE SYLLABUS

MODERN BUILDING TECHNOLOGIES

Course title in English: Modern Building Technologies
Academic major: ARCHITECTURE AND URBAN PLANNING
Study cycle and study mode: Second cycle, full-time / part-time
Course type:obligatory
Course code AUA105674W
Group of courses No

	Lecture	Tutorial	Lab	Project	Seminar
Number of contact hours	15				
Number of student workload hours	30				
Grading policy	pass with grade				
Mark (X) for final course in a group of courses					
ECTS points:	**1**				
including ECTS points for practical hours (P)					
including ECTS points for contact hours (CH)	1				

PREREQUISITES RELATING TO KNOWLEDGE, SKILLS AND OTHER COMPETENCIES

24. Demonstrate knowledge of physics of buildings and general building engineering, which enable designing typical elements of a building.
25. Apply the rules of construction and use the building standards. Identify and apply provisions of the building code
26. Use construction documentation and create its selected elements

COURSE OBJECTIVES

C1 - To acquaint students with modern architectural and technological solutions used in low-energy buildings.
C2 To develop skills in solving engineering problems related to creating different forms of building shape designed to limit heat loss and provide rational energy savings
C3 To learn and develop skills in applying modern material and structural solutions in contemporary architecture.

COURSE LEARNING OUTCOMES

Related to knowledge:
PEK_W01 – Demonstrate advanced knowledge of modern building technologies
Related to social competencies:
PEK_K01 - Understand the importance of lifelong learning, inspire and organize the learning process of others
PEK_K02 – Understand the responsibility for one's work

Mode of teaching - lectures		Number of hours
Lec 1	Modern architectural and construction solutions based on low-energy-consuming technologies. Basic solutions of energy-saving buildings. Energy quality of buildings	2
Lec2	Low-energy house, passive house and equivalent notions	2
Lec 3	Structure of full and glazed partitions in low energy buildings.	2
Lec 4	Contemporary technologies of developing flat systems of timber, stone, ceramics, concrete, reinforced concrete, steel	2
Lec 5	Contemporary technologies of developing spatial systems of timber, stone, concrete, reinforced concrete, steel, glass	2
Lec 6	Modern technologies of developing complex construction systems	2
Lec7	Principle of developing systems of glass, metal façades and composite.	2
Lec 8	Final test	1
	Total hours	**15**

TEACHING TOOLS
N1. Educational lecture, multimedia presentations N2. Individual work – study and preparation for the final test.

ASSESSMENT OF ACHIEVEMENT OF LEARNING OUTCOMES

Lecture

Assessment (F – formative (during the semester), S – summative (at the end of semester)	Number of learning outcome	Method of assessing the achievement of learning outcome
F1	PEK_W01	Test $\alpha_1=1$
P1=F1 α_1, where $\alpha_1=1$, $\sum \alpha = 1$		

BASIC AND ADDITIONAL LITERATURE

BASIC LITERATURE

[1] Klasztorny M., *Mechanika* D W E s. c. Wrocław 2000 r.

[2] Mielczarek Z., *Nowoczesne konstrukcje w budownictwie ogólnym* Arkady Warszawa 2001

[3] Pfammatter U., *BUILDING THE FUTURE*, Prestel Verlag, Munich-Berlin-London- New York 2008

[4] Berger H., *Light Structures-Structures of Light .The Art and Engineering of Tensil Architecture*, Basle 1996

[5] Behling S.,and St.(eds), *Glas.Konstruktion und Technologie in der Architectur*, Munich 1999

ADDITIONAL LITERATURE

[1] Campagno A., *Intelligente Glasfassaden. Material,Anwendung, Gestaltung*, Basle 2002

[2] Elliott C., D., *Technics and Architekture.The Development of Materials and Systems for buildings*, Cambridge, Mass, London 1992

[3] Kaltenbach F., *Translucent Materials.Glass, Plastic, Metals*, Basle 2004, (edition Detail)

COURSE ADVISOR

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EQUIVALENCY MATRIX OF LEARNING OUTCOMES FOR COURSE
MODERN BUILDING TECHNOLOGIES
WITH THE LEARNING OUTCOMES FOR ARCHITECTURE AND URBAN PLANNING MAJOR

Course learning outcome	Relation of course outcome with learning outcomes formulated for the major **and specialization**	**Course objectives**	**Curriculum content**	**No. of teaching tool**
PEK_W01 (knowledge)	, K2AiU_W02, K2AiU_W08 S2AR_W08	C1-C3	Lec1-Lec8	N1, N2
PEK_K01 (competencies)	K_K01, K2AiU_K01, K2AIU_K02	C1-C3	Lec1-Lec8	N1, N2
PEK_K02	K_K02, K_K03, K2AIU_K03, K2AIU_K05	C1-C3	Lec1-Lec8	N1, N2

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FACULTY OF ARCHITECTURE

COURSE SYLLABUS
SPATIAL PLANNING

Academic major: **ARCHITECTURE AND URBAN PLANNING**
Study cycle and study mode: second cycle, full-time
Course type:obligatory
Course code: AUA105056W, AUA105055P
Group of courses: NO

	Lecture	Tutorial	Lab	Project	Seminar
Number of contact hours	15			45	
Number of student workload hours	60			90	
Grading policy	Examination			credit	
ECTS points:	**2**			3	
including ECTS points for practical hours (P)				3	
including ECTS points for contact hours (CH)	1			1	

PREREQUISITES RELATING TO KNOWLEDGE, SKILLS AND OTHER COMPETENCIES

1. KNOWLEDGE
Knowledge of issues of history and theory of architecture, urban planning, Understand the investment process.
2. SKILLS:
Ability to shape the residential environment of man. Skills in designing at an architectural and urban scale.
3. OTHER COMPETENCIES:
Awareness of social, cultural, ecological effects of making design decisions.

COURSE OBJECTIVES

C1. The aim of the course is to acquaint students with the circumstances of spatial development which stem from the complexity of urban planning.
C2. To present the principles of creating and implementing spatial policy at the national, regional level and in other structural units.
C3. To gain experience in developing analysis and preparing spatial development plans.

COURSE LEARNING OUTCOMES

Related to knowledge:

PEK_W01: Demonstrate knowledge of determinants of spatial policy at the national, regional level and in other structural units.

PEK_W02: Identify systemic problems of spatial development.

PEK_W03: Demonstrate knowledge of contemporary trends in sustainable spatial development.

Related to skills:

PEK_U01: Analyze and evaluate the state of spatial development

PEK_U02: Interpret planning arrangements.

PEK_U03: Identify functional and spatial structures.

PEK_U04: Prepare land use plans.

Related to social competencies:

PEK_K01: Work in a project team.

PEK_K02: Critically analyze available information.

PEK_K03: Justify the choice of design solution variant.

CURRICULUM CONTENT		
Mode of teaching - lectures		**Number hours**
Lec1	Objectives and instruments of spatial planning. The essence of the systemic approach. Interdisciplinary character of theoretical base. Global, region and national dimension of spatial planning. Competencies of local governments. Specialist certification.	2
Lec2	Planning stages: analysis, diagnosis, prognosis, design, implementation. Interdisciplinary character of studies. Scope of original analysis and specialist expertise. Competencies of an architect.	2
Lec3	Analysis of natural and anthropogenic factors. Scope and role of specialist studies. Determining the “spatial potential": identity of a place, predispositions to transformation.	2
Lec4	Specificity of urbanized space. City: roles, categories of functions, development cycles. Transformation trends of urban space. Metropolitan areas. New cities: ideas of incorporation, economic and ecological conditions.	2
Lec5	The transport system: task,efficiency, cost-effectiveness. Description of types of transport, contemporary problems and development trends. Hierarchy of the communication system.	2
Lec6	(Workplaces) Factors that determine the location of areas and structures serving economic activities. Transformation processes: de-industrialization, reindustrialization suburbanization, concentration. Specificity of concentration zones of advanced technology industry. Services in hierarchical systems. Concentrations of services in urban central areas.	2
Lec7	City as the mans living environment: assessment criteria, development laws, urbanization stages. Standard for residential areas and green areas. Contemporary trends and public needs.	**2**
Lec8	Problems with applying spatial planning in practice. Free market mechanisms. The effects of the implementation of spatial policy. Requirements pertaining to sustainable development.	**1**
	Total hours	**15**

Mode of teaching - project		Number hours
Pr1	Organizational matters: course topics, literature, schedule, course completion requirements. Presentation of example projects. Choice of topic of design study.	3
Pr2	Urban inventory. Establishment of scope of study tasks and analysis.	3
Pr3	Identification of problems of development for selected space. Functional and spatial relations in the region. Space evaluation.	3
Pr4	System analysis and diagnosis: communication, residential housing, workplaces (industry, economic activities, services), greenery.	3
Pr5	Aggregate of the conclusions of analysis (predisposition of areas, possibilities of functional and spatial transformations). Variants of spatial development.	3
Pr6	Submission 1 – review of project progress.	3
Pr7	Choice of variant for further study. Critique of distribution of elements of functional and spatial structure. Scope of transformations of existing investments.	3
Pr8	Hierarchy of the communication system. Establishment of zones for workplaces: (nodal areas, lines of concentration).	3
Pr9	In-class work on a given topic.	3
Pr10	Critique of the compositional system: diversification of urban complexes, main urban interiors and their relationship.	3
Pr11	Continuity of green areas and attractiveness of the recreation and sports program. Structure of residential areas.	3
Pr12	Submission 2 - presentation of project and discussion.	3
Pr13	Critique of project proposals.	3
Pr14	Developing drawings and texts for individual panels. Implementation of analysis to check the correctness of systems:	3
Pr15	Graded project Credit for the course	3
	Total hours	**45**

TEACHING TOOLS
N1. Lecture: paper presentation supported by multimedia presentation N2. Project: consultation N3. Project: presentations of examples of studies N4. Project: presentation of projects and discussion.

ASSESSMENT OF ACHIEVEMENT OF LEARNING OUTCOMES

Lecture

Assessment (F – formative (during the semester), S – summative (at the end of semester)	Number of learning outcome	Method of assessing the achievement of learning outcome
P	PEK_W01, PEK_W02, PEK_W03,	Written exam

	PEK_U01, PEK_U02	
$P=a_1F$ where $a_1=1$, $\sum a=1$		

Project

Assessment (F – formative (during the semester), S – summative (at the end of semester)	Number of learning outcome	Method of assessing the achievement of learning outcome
F1	PEK_U01, PEK_U02, PEK_U03, PEK_K01, PEK_K02	Assessment of the 1st stage of design: analysis and project versions
F2	PEK_U04	Assessment of skills in working in the classroom: in-class assignment
F3	PEK_U04, PEK_K01, PEK_K03	Assessment of the 2nd stage of design: project and presentation
P=a1F2 + a2F3 + a3F4 gdzie a1=0.3, a2=0.2, a3=0.5, ∑a=1		

BASIC AND ADDITIONAL LITERATURE

BASIC LITERATURE:

[148] Böhm A., *Planowanie przestrzenne dla architektów krajobrazu. O czynniku kompozycji* .Kraków 2006

[149] Chmielewski J. M., *Teoria urbanistyki w projektowaniu i planowaniu miast.* Warszawa 2001.

[150] Czarnecki W., *Planowanie miast i osiedli,* Warszawa 1964-65.

[151] Słodczyk J., *Przestrzeń miasta i jej przeobrażenia,* Opole 2001.

[152] Zipser T., *Zasady planowania przestrzennego,* Wrocław 1983.

ADDITIONAL LITERATURE:

[98] Adamczewska-Wejchert H., Wejchert K., *Małe miasta,* Warszawa 1986.

[99] Beaujeu-Garnier J., *Zarys geografii miast,* Warszawa 1971.

[100] Benevolo L., *Miasto w dziejach Europy,* Warszawa 1995.

[101] Malisz B., *Zarys teorii kształtowania układów osadniczych,* Warszawa 1981.

[102] Ossowicz T., *Metoda ustalania przedsięwzięć polityki przestrzennej wielkiego miasta,* Wrocław 2003.

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EQUIVALENCY MATRIX OF LEARNING OUTCOMES FOR COURSE
SPATIAL PLANNING
WITH THE LEARNING OUTCOMES FOR ARCHITECTURE AND URBAN PLANNING MAJOR

Course learning outcome	Relation of course outcome with learning outcomes formulated for the major and concentration	Course objectives	Curriculum content	No. of teaching tool
PEK_W01	K2AiU_W07, S2AiU_W01, S2U_W02, S2U_W10, S2U_W12	C1, C2	Lec1-Lec4, Pr1-Pr3	N1, N3
PEK_W02	K2AiU_W06, K2AiU_W03, S2AiU_W06, S2U_W08, S2U_W12	C2, C3	Lec5-Lec7, Pr4, Pr7, Pr8, Pr15	N1, N2, N3
PEK_W03	K2AiU_W06, K2AiU_W07, S2AiU_W05, S2U_W03	C1, C3	Lec7, Lec8, Pr5	N1, N2, N3
PEK_U01	K2AiU_U07, S2AiU_U03, S2U_U02, S2U_U11, S2U_U12, S2U_U14	C3	Pr3-Pr5	N2
PEK_U02	K2AiU_U08, S2AiU_U03, S2U_U03	C2	Pr3, Pr9	N2
PEK_U03	K2AiU_U07, S2AiU_U03, S2U_U04	C1, C3	Pr3	N2
PEK_U04	K2AiU_U08, S2AiU_U05, S2U_U05, S2U_U10	C3	Pr6-Pr15	N2, N4
PEK_K01	K2AiU_K02, S2AiU_K01, S2U_K01	C3	Pr2-Pr15	N2, N3, N4,
PEK_K02	K2AiU_K02, S2AiU_K02, S2U_K01	C1, C3	Pr2-Pr5	N2
PEK_K03	K2AiU_K03, K2AiU_K04, K2AiU_ K05, S2AiU_K01, S2U_K03	C2	Pr5-Pr7	N2

Faculty of Architecture

COURSE SYLLABUS

Design Study: Public Space in Small Towns

Course title in English Design Studio: Public places of small towns
Academic major: **ARCHITECTURE AND URBAN PLANNING**
Study cycle and study mode: Second cycle, full-time / part-time
Course type: elective
Course code AUA107726wP
Group of courses YES

	Lecture	Tutorial	Lab	Project	Seminar
Number of contact hours	15			45	
Number of student workload hours				120	
Grading policy				credit	
ECTS points:				4	
				X	
Including ECTS points for practical hours (P)				3	
Including ECTS points for contact hours (CH)				1	

PREREQUISITES RELATING TO KNOWLEDGE, SKILLS AND OTHER COMPETENCIES

- Knowledge of basic elements of functional and spatial structure of urbanized areas.

COURSE OBJECTIVES

C1. To acquaint students with modern solutions in the field of development of public spaces in small towns.

C2. To develop the ability to assess the state of development of different types of public spaces and identify activities to improve it.

C3. To expand knowledge of the use of advanced urban techniques in the design of transformation of public spaces in urban areas of small towns.

C4. To develop the ability to prepare a project of public space development in a small city.

COURSE LEARNING OUTCOMES

Related to knowledge:

PEK_W01 - Demonstrate knowledge of the types of public spaces in cities.
PEK_W02 Identify contemporary problems of public spaces and their main causes.
PEK_W01 demonstrate knowledge of modern solutions in the field of development of public spaces in small towns.
PEK_W04 demonstrate knowledge of urban systems functioning on the basis of public spaces.

Related to skills:

PEK_U01 Perform complex analysis of external and internal circumstances of public spaces in small cities.
PEK_U02 evaluate the state of development of selected public space in a small city.
PEK_U03 Present the typology of public spaces in a selected small city and discuss the functions of such spaces.
PEK_U04 Propose activities aimed at the regeneration of different types public space.
PEK_U05 Develop a project of public space development.

Related to social competencies:

PEK_K01 Demonstrate awareness of the important role of public spaces in city structure and dependencies between its development, and the occurring interactions within it.

CURRICULUM CONTENT		
Mode of teaching - lectures		Number hours
Lec1	Scope of the lecture, course completion requirements, literature. Public spaces - definitions.	1
Lec2	Typology of public spaces. Functions of various types of public spaces in the structure of a small town	1
Lec3	The ideas for planning small cities- transformations of the role of public space in the twentieth and early twenty-first century	1
Lec4	Public spaces in European cities and their transformations - case studies.	1
Lec5	Degradation of public spaces in small cities – causes, generated problems and their impact on the functioning of small cities.	1
Lec6	Revitalization program of public spaces	1
Lec7	Public spaces in studies of circumstances and trends of spatial development and local land use plans.	1
Lec8	The role of urban planner in shaping public spaces	1
Lec9	The role of public spaces in the centers of small towns	1
Lec10	Relations between public space and other urban functions	1
Lec11	Designing public spaces in areas earmarked for investments in small towns.	1
Lec12	Modern furnishings of public space and the role of its individual components	1
Lec13-Lec14	Development of different types of public spaces: the markets of small towns, streets and town squares, parks, squares, coastal areas, etc.	1
Lec15	Transformations prospects of public space in cities.	1
	Total hours	**15**

CURRICULUM CONTENT		
Mode of teaching - project		Number hours
Pr1	Introduction, assignment of topics. In-class assignment	3
Pr 2	CONSULTATIONS. Analysis of social-economic and demographic conditions	3
Pr 3	CONSULTATIONS. Analysis of cultural circumstances.	3
Pr 4	CONSULTATIONS. Analysis of internal natural constraints.	3
Pr 5	CONSULTATIONS. Analysis of legal and economic conditions.	3
Pr 6	I. REVIEW. Presentations of circumstances and constraints in city development, which are significant in terms of functioning of public spaces.	3
Pr 7	CONSULTATIONS. Delimitation of public spaces that require corrective actions.	3
Pr 8	CONSULTATIONS. Definition of possibilities and constraints and transformation needs.	3
Pr 9	CONSULTATIONS. The concept of transformation scenario – inspirations, idea.	3
Pr 10	CONSULTATIONS. Preliminary concept of transformations of selected public space(s).	3
Pr 11	II. REVIEW. The concept of transformations of selected public space(s).	3
Pr 12	CONSULTATIONS. Economic verification of adopted objectives.	3
Pr 13	CONSULTATIONS. Implementation objectives.	3
Pr14	FINAL PRESENTATION	3
Pr 15	CREDIT	3
	Total hours	**45**

TEACHING TOOLS
1. Traditional lecture using multimedia presentation 2. Discussion. 3. Individual project consultations with the instructor. 4. In-class assignments on a given topic. 5. Individual work – preparation for project.

ASSESSMENT OF ACHIEVEMENT OF LEARNING OUTCOMES

Assessment (F – formative (during the semester), S – summative (at the end of semester)	Number of learning outcome	Method of assessing the achievement of the learning outcome
F1	PEK_U01 ÷ PEK_U3	Presentations of parts of the project during reviews 1 and 2
F2	PEK_W01 ÷ PEK_W4 PEK_U01 ÷ PEK_U5	Participation in discussion
F3	PEK_U01 ÷ PEK_U5	Presentation and submission of the project.
P=F1x0,3+F2x0,2+F3x0,5		Submitted project

BASIC AND ADDITIONAL LITERATURE

basic literature

31. Moughtin C., Urban design: street and square, Butterworth Architecture, Oxford, 1992
32. Jastrząb Tomasz, Place i rynki jako zagadnienia urbanistyczne, poznań, WPP, 2002.
33. Gehl Jan, Życie między budynkami. Użytkowanie przestrzeni publicznych, Kraków 2009;
34. Gaventa Sarah, New public spaces, London, Mitchell Beazley, 2006.
35. Wejchert Kazimierz, Elementy kompozycji urbanistycznej, Arkady, 2008;
36. Marcus Clare Cooper, Francis Carolyn (red.), People places: design guidelines for urban open space, New York : John Wiley & Sons, 1998.
37. Majer Andrzej, Socjologia i przestrzeń miejska, Warszawa, PWN, 2010.
38. Longstreth R., City Center to Regional Mall, MIT Press, Cambridge 1997;
39. Oc Taner, Tiesdell Steven, Safer city centres: reviving the public realm, London, Pau Chapman Publishing, 1997.

additional literature

37. Low Setha, Smith Neil, The politics of public space, New York ; London Routledge Taylor & Francis Group, 2006.
38. Chmielewski Jan Maciej, Teoria urbanistyki w projektowaniu i planowaniu miast, Oficyna Wydawnicza Politechniki Warszawskiej, Warszawa 2001;
39. French Hilary, New urban housing / Hilary French., Laurence King, London, 2009
40. Lance Jay Brown, Urban design for an urban century: placemaking for people, John Wiley & Sons, cop. Hoboken 2009;
41. Losantos Agata, Krajobraz miejski; nowe trendy, nowe inspiracje, nowe rozwiązania, Warszawa TMC , 2008.
42. Zuziak Zbigniew K. O tożsamości urbanistyki , Wydawnictwa PK, Kraków 2009.
43. Masztalski R., Mycak O.: The new Polish town planing of the 90's , w: Style and manner in the architectural education, Workshop-39, Proceedings, Bucarest, 1999.
44. Rozporządzenie Ministra Infrastruktury z dnia 12 kwietnia 2002 r. w sprawie warunków technicznych, jakim powinny odpowiadać budynki i ich usytuowanie **(**Dz.U. z 2002 Nr 75 poz. 690 z późn.zm.)
45. Rozporządzenie Ministra Transportu i Gospodarki Morskiej z dnia 2 marca 1999 r. w sprawie warunków technicznych, jakim powinny odpowiadać drogi publiczne i ich usytuowanie **(**Dz.U. 1999 nr 43 poz. 430).

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EQUIVALENCY MATRIX OF LEARNING OUTCOMES FOR COURSE
DESIGN STUDY: PUBLIC SPACE IN SMALL TOWNS
WITH THE LEARNING OUTCOMES FOR ARCHITECTURE AND URBAN PLANNING MAJOR

Course learning outcome	Relation of course outcome with learning outcomes formulated for the major	Course objectives	Curriculum content	Number of teaching tool
PEK_W01÷ PEK_W04,	K2AiU_W02, K2AiU_W03, K2AiU_W05, K2AiU_W06	C1, 3	Lec1÷ Lec15	1,3,7
PEK_U01÷ PEK_U05	K2AiU_U01, K2AiU_U03, K2AiU_U07, K2AiU_U11	C2, 4	Pr.1÷ Pr15	2-6
PEK_K01	K2AiU_K04, K2AiU_K05	C1÷ 4	Lec.÷Lec15 Pr.1÷ Pr15	1÷7

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FACULTY OF ARCHITECTURE

COURSE SYLLABUS

DESIGN STUDY: COMMERCIAL AND RESIDENTIAL DEVELOPMENT IN THE CITY

Academic major: ARCHITECTURE AND URBAN PLANNING
Study cycle and study mode: Second cycle, full-time / part-time
Course type: elective
Course code AUA107712wP
Group of courses YES

	Lecture	Tutorial	Lab	Project	Seminar
Number of contact hours	15			45	
Number of student workload hours				120	
Grading policy				**pass with grade**	
Mark (X) for final course in a group of courses				X	
ECTS points:				4	
including ECTS points for practical hours (P)				3	
including ECTS points for contact hours (CH)				1	

PREREQUISITES RELATING TO KNOWLEDGE, SKILLS AND OTHER COMPETENCIES

1. KNOWLEDGE: Basic understanding of technical problems related to design of architectural structures.
2. SKILLS: Ability to analyze the external circumstances of the existing urban fabric, the relationships between buildings. Skill in applying different technical methods: freehand drawings at a scale, CAD programs, modelling.

3. OTHER COMPETENCIES: Taking into consideration the non-technical aspects of design, including the influence of the cultural environment, historic circumstances, natural environment.

COURSE OBJECTIVES

C1- To define the service-residential development, establish the form, social needs and cultural, trends and mutual conditions for both functions
C2- To define the necessary features and requirements for the integrated service function
C3- To define the necessary features and requirements for the integrated residential function
C4 - To present problems related to the use of a common structural, material and installation infrastructure,
C5- To present problems of hierarchization of function, horizontal and vertical segregation.
C6- To define the urban and architectural requirement resulting from the required technical conditions for architectural design
C7 - To introduce students to development prospects of residential and commercial buildings.

COURSE LEARNING OUTCOMES

Related to knowledge:

PEK_W01: Demonstrate systematic and theoretically grounded general knowledge of designing residential and commercial development in an urbanized environment. Demonstrate rudimentary knowledge related to designing technical issues.
PEK_W02: Describe characteristics of contemporary residential and commercial architecture in a specific environment.
PEK_W03: Demonstrate general knowledge related to provisions of technical conditions of design in such development function.
PEK_W04: Understand non-technical aspects of design the aforementioned functions, such as cultural, historic and social, as well as economic circumstances.

Related to skills:

PEK_U01: Apply technical knowledge in designing commercial-residential development at an urban and architectural scale.
PEK_U02: Understand the mutual relations between building and surroundings in terms of cultural, social and technical aspects. Create a conceptual design related to architecture of commercial-residential buildings, which takes into consideration the social, functional, construction-structural and installation problems.
PEK_U03: Apply contemporary techniques and materials in presenting architectural concepts. Prepare documentation for the design task using computer aided design software. Use appropriate computer aided design tools to simulate the project and verify its elements.

Related to social competencies:

PEK_K01: Demonstrate awareness of the importance of non-technical aspects and consequences of creating solutions for residential and commercial buildings, its impact on the existing urban environment.
PEK_K02: Demonstrate awareness of the importance of the combination of service and housing function in the urbanize city structure and its impact on quality of life.

CURRICULUM CONTENT

Mode of teaching - lectures		Number of hours
Lec1	Definition of the commercial-residential development, showing examples of past and present, (townhouse, quarter building)	2
Lec2	Characteristics of street-line development, analysis of dependencies on external, biourban factors, examples of buildings, development line.	2
Lec3	Definition of commercial function, types, variations and sizes, define its social, functional and technical requirements	2
Lec4	Definition of residential function, definition of its size, social, functional and technical requirements	2
Lec5	Segregation of functions in the commercial and residential buildings in terms of the urban and architectural structure	2
Lec6	Types of commercial-residential development depending on the biourban circumstances, the level and inconvenience of communication passageways, the required residential structure and size of services	2
Lec7 i 8	Field trip – to introduce students to selected, implemented examples of commercial-residential development	3
	Total hours	**15**

Mode of teaching - project		Number of hours
Pr1	Form and scope of the project, course completion requirements, literature. Overview of proposed topics and project situations. Assignment of subjects and situations, appointment of project groups.	2
Pr2	In-class assignment – preliminary concept of selected topic, analysis of the situation - historical and urban constraints, analysis of function - definition of the basic size of the structure, perspective drawings.	4
Pr3	Overview of results of in-class assignment, group work on selected development complex – definition of common functional and spatial constraints.	2
Pr4	Continuation of the project, land-use solution, schematic arrangement of functions in the facility with size balance, consultations with instructor.	4
Pr5	Continuation of project, analysis using projections and sections of functional solutions, perspective sketches of development form, consultations with instructor.	2
Pr6	Continuation of the project, land-use - system of pedestrian and road communication, Functional and spatial concept of the building - distribution of functions, projections and characteristic sections.	4
Pr7	Continuation of the project, co-ordination in the team, consultation with instructor.	2
Pr8	Review of projects, presentations by students of the created concepts, overview and assessment.	4
Pr9	In-class assignment – selected fragment of the studies topic, characteristic sections.	4

Pr10	Overview of results of in-class assignment, consultation in thematic groups.	2
Pr11	Continuation of the project, verification of land development solution, relationship with the environment and proposed adjacent buildings.	2
Pr12	Continuation of the project, function-spatial solution – program verification, introduction of changes, alternative solutions for elevation and shape, consultation with instructor	4
Pr13	Continuation of the project, structural and material solution, perspective sketches of the building shape.	2
Pr14	Continuation of the project, functional and spatial concept of the development, final verification of program, consultations.	3
Pr15	Presentation of original projects, early submission date, consultation.	4
	Total hours	**45**

TEACHING TOOLS
N1. for lectures: Expository lecture, multimedia presentations, problem-solving lecture N2.for project: project presentations , discussions, consultation

ASSESSMENT OF ACHIEVEMENT OF LEARNING OUTCOMES

Assessment (F – formative (during the semester), S – summative (at the end of semester)	Number of learning outcome	Method of assessing the achievement of learning outcome
F1	PE_W01, PE_W02, PE_W03, PE_W04, PE_K01	Oral examination based on the completed project – α_1=1
F2	PE_U01, PE_U02, PE_K01	Assessment of the content quality of the project – α_2=0,6
F3	PE_U03,	Assessment for the presentation of problems covered by the project – α_3=0,2
F4	PE_U03,	Assessment for graphic design of the project α_4=0,2
$P1=\alpha_1 F1$ where $\alpha_1=1$, $\sum\alpha=1$ $P2=\alpha_2 F2+\alpha_3 F3+\alpha_4 F4$, gdzie $\alpha_2=0.6$, $\alpha_3=0.2$, $\alpha_4=0.2$, $\sum\alpha=1$		

P1 - Final grade for oral examination
P2 - Final grade for project (weighted average: for projects – 60% , for presentations - 20% and graphical appeal 20%).

BASIC AND ADDITIONAL LITERATURE

BASIC LITERATURE:

[1] NEUFERT E., Podręcznik projektowania architektoniczno-budowlanego Arkady, Warszawa
[2] ADAMCZESKA-WEJCHERT H., Kształtowanie zespołów mieszkaniowych, Arkady, Warszawa 1972.
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[5] CUDNIK ZBIGNIW, Skarbnice wiedzy Ossolineum Wrocław 1980

[6] POPŁAWSKI B., Projektowanie szkół wyższych Arkady Warszawa 1982
[7] JURASZYŃSKI J. NITSCH A. PORĘBOWICZ S. RADWAŃSKI Z., Projektowanie obiektów służby zdrowia Arkady Warszawa 1973
[8] TEAROWSKI M., Słońce w architekturze Arkady Warszawa 1970
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[11] KULAK T., Historia Wrocławia, t. 2, Wrocław 2001

ADDITIONAL LITERATURE:

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[2] BIŃKOWSKA I., Wrocław - Fotografie z przełomu XIX i XX wieku, VIA – Wydawnictwo 1993.
[3] CERVER F. A., The World of Contemporary Architecture, Barcelona 2003.
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MOSS M., TUTON A., A Legend of Retailing House of Fraser, London 1989
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[7] Architektura - Murator, miesięcznik, Warszawa.
[8] Architektura & Biznes , miesięcznik, Kraków.

COURSE ADVISOR (NAME, SURNAME, E-MAIL)

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EQUIVALENCY MATRIX OF LEARNING OUTCOMES FOR COURSE
DESIGN STUDY: COMMERCIAL AND RESIDENTIAL DEVELOPMENT IN THE CITY
WITH THE LEARNING OUTCOMES FOR ARCHITECTURE AND URBAN PLANNING MAJOR

Course learning outcome	Relation of course outcome with learning outcomes formulated for the major	Course objectives	Curriculum content	No. of teaching tool
PEK_W01 (knowledge)	K2AiU_W01, K2AiU_W02, K2AiU_W03, K2AiU_W04	C1, C2, C3, C4,C5	Lec1-Lec6	N1
PEK_W02	K2AiU_W02, K2AiU_W03, K2AiU_W04, K2AiU_W05	C1,C2,C3,C4,C5	Lec1-Lec6	N1
PEK_W03	K2AiU_W02, K2AiU_W03, K2AiU_W04, K2AiU_W07	C2,C3,C4,C6	Lec3,Lec4	N1
PEK_W04	K2AiU_W01, K2AiU_W03, K2AiU_W05, K2AiU_W06, K2AiU_W07	C5,C6,C7	Lec3,Lec5,Lec6	N1
PEK_U01 (skills)	K2AiU_U01, K2AiU_U03, K2AiU_U04, K2AiU_U05	C1,C2,C3,C4,C5, C6	Pr1-Pr7,Pr9--Pr14,	N1,N5
PEK_U02	K2AiU_U06, K2AiU_U07, K2AiU_U09, K2AiU_U010	C1-C7	Pr5-Pr15	N1,N5
PEK_U03	K2AiU_U01, K2AiU_U05, K2AiU_U09, K2AiU_U10, K2AiU_U11	C4-C7	Pr11-Pr15	N1,N5
PEK_K01 (competencies)	K2AiU_K03, K2AiU_K04	C1, C4-C7	Pr1-Pr15	N1,N5
PEK_K02	K2AiU_K03, K2AiU_K04, K2AiU_K05	C5-C7	Pr4-Pr15	N1,N5

FACULTY OF ARCHITECTURE

COURSE SYLLABUS

DESIGN STUDY: META-HABITAT IN DIFFERENT CULTURES.

Course title in English Meta-Habitat in Different Cultures
Academic major: ARCHITECTURE AND URBAN PLANNING
Study cycle and study mode: Second cycle, full-time / part-time
Course type: elective
Course code
Group of courses YES

	Lecture	Tutorial	Lab	Project	Seminar
Number of contact hours	15			45	
Number of student workload hours				120	
Grading policy				pass with grade	
Mark (X) for final course in a group of courses				X	
ECTS points:				4	
including ECTS points for practical hours (P)				3	
including ECTS points for contact hours (CH)				1	

PREREQUISITES RELATING TO KNOWLEDGE, SKILLS AND OTHER COMPETENCIES

1. KNOWLEDGE

Knowledge of problems related to residential architecture and history of civilization

2. SKILLS:

Ability to present architectural ideas in the form of freehand drawings.

3. OTHER COMPETENCIES:

Openness, creativity, active involvement in learning about architecture, art and science

COURSE OBJECTIVES

C1- To develop creativity and skills in designing residential architecture in harmony with the genotype and phenotype of the site
C2- To acquaint students with contemporary philosophical and social, civilizational and technological and urban and spatial circumstances of residential architecture in the world (evolutionary and structural-functional perspective).
C3- To present basic ethical and aesthetic problems related to development of residential architecture in different cultures: regionalizm vs. McWorld, creators individualism vs the protection of cultural heritage of a place.
C4- To introduce students to cultural diversity of archetypes of places and human behavior, and to the diversity of languages in spatial models of house and habitat.
C5- To present contemporary trends in residential architecture in the world, including: meta-polis and meta-habitat in the post-modern world.
C6- To equip students with skills in preparing an conceptual and problematic architectural design, which is graphically appealing.

COURSE LEARNING OUTCOMES

Related to knowledge:

PE_W01 Demonstrate detailed knowledge of cultural circumstances in relation to the development of space surrounding human life, including knowledge needed to understand the phenomenon of habitat and home, location and space.
PE_W02 Demonstrate theoretically grounded knowledge of cultural heritage of a place and its influence on residential architecture
PE_W03 Describe archetypes of places and behaviors, and spatial models of home and habitat in different cultures
PE_W04 Describe basic problems and challenges related to the development of civilization, and their influence on the concept of residential environment.
PE_W05 Identify and creatively interpret the regional spatial model of residential architecture.

Related to skills:

PE_U01 Demonstrate skills in self-teaching and develop critical thinking
PE_U02 Demonstrate the ability to retrieve information from literature of the subject, databases and other sources, draw conclusions and formulate and justify opinions, and interpret such information in the form of freehand drawings
PE_U03 Analyze the current condition of residential architecture in the world, validate information, understand civilizational trends and identify problems to by an architect
PE_U04 Demonstrate creativity using modern language of architectural forms
PE_U05 Demonstrate innovation in developing structural-technological problems of residential architecture
PE_U06 Prepare project documentation with technical description of the design, and demonstrate knowledge of architectural 3D-CAD software
PE_U07 Present an architectural concept in a clear and graphically appealing manner

Related to social competencies:

PE_K01 Demonstrate the awareness of the responsibility of an architect for maintaining the spatial order, protecting the natural environment and the cultural heritage of a place.
PE_K02 Demonstrate awareness of the social dimension of architecture and respect the diversity of needs, beliefs, opinions and aesthetic preferences of users of architecture.
PE_K03 Demonstrate openness, creativity, and active involvement in learning about architecture, art and science, and in continuous development of architectural skills

CURRICULUM CONTENT		
Mode of teaching - lectures		**Number of hours**
Lec1	Meta-habitat: genes, memes and ideas. Ecumenopolis: a system of archetypes of places and behaviors in different cultures	1
Lec2	Archetype: Territory	1
Lec 3	Archetype: Path	1
Lec 4	Archetype: Shelter	1
Lec 5	Archetype: Sleeping	1
Lec 6	Archetype: Washing	1
Lec7	Archetype: Allocating	1
Lec 8	Archetype: Eating	1
Lec 9	Archetype: Storing	1
Lec10	Archetype: Mating	1
Lec 11	Archetype: Meeting	1
Lec 12	Archetype: Playing	1
Lec 13	Archetype: Competition	1
Lec 14	Archetype: Working	1
Lec 15	Individual vs universal meta-habitat	1

	Total hours	**15**

Mode of teaching - project		**Number of hours**
Pr1	*My* planet: blog describing the life of the planet in a subjective historical perspective (workshop)	3
Pr2	Place vs. timespace in meta-habitat (workshop)	3
Pr3	Territorial stations and core regions in meta- (workshop)	3
Pr4	Minimum settlement space in meta-habitat (workshop)	3
Pr5	Presentation of projects and discussion.	3
Pr6	Cycles of life in meta-habitat. Beginning and end (workshop)	3
Pr7	Washing: body and the concept of intimacy (workshop)	3
Pr8	Recycling: matter and energy cycle in meta-habitat (workshop)	3
Pr9	House as an expression of cultural models, McWorld or creator's ego (workshop)	3
Pr10	Presentation of projects and discussion.	3
Pr11	House as an expression of "to be or to have" in meta-habitat in different cultures (workshop)	3
Pr12	Meeting place in meta-habitat (workshop)	3
Pr13	Place for playing, competing and working in meta-habitat (workshop)	3
Pr14	Noospere of *my* planet: memes and ideas (workshop)	3
Pr15	Presentation of projects and discussion. Credit	3
	Total hours	**45**

TEACHING TOOLS
N1. for lectures: **multimedia presentation, problem-solving lecture** N2. for project: **project presentation, designing workshop, consultation**

ASSESSMENT OF ACHIEVEMENT OF LEARNING OUTCOMES

Assessment (F – formative (during the semester), S – summative (at the end of semester)	Number of learning outcome	Method of assessing the achievement of learning outcome
F1	PE_W01, PE_W02, PE_W03, PE_W04, PE_W05, PE_K01 PE_K02	Pass with grade - $\alpha_{1=}1$
F2	PE_U01, PE_U04, PE_U05, PE_K01 PE_K03	Grade for the project's conceptual value and addressed problem - $\alpha_{1=}0,4$
F1	PE_U02, PE_U03, PE_K02	Grade for the analytical value of the project - $\alpha_{2=}0,4$
F4	PE_U06, PE_U07, PE_K03	Grade for the formal and graphical appeal of the project $\alpha_{3=}0,2$

P 1= α_1 F1 gdzie α_1=1, Σ α = 1 P 2= α_1 F2 + α_2F3 + α_3F4, where α_1=0,4 α_2=0,4 α_3=0,2 Σ α = 1

P1 - Final grade for lecture in the form of a report: architect's sketchbook
P2 - Final grade for project (weighted average: concept and problem value – 40% , analytical value - 40% and formal-graphical appeal 20%).

BASIC AND ADDITIONAL LITERATURE

BASIC LITERATURE:

[153] Alison, Jane, Brayer, Marie-Ange, Migayrou, Frédéric, Spiller, Neil, *Future City: Experiment and Utopia in Architecture*, London: Thames&Hudson, 2006.
[154] Barber, Benjamin R., *Dżihad kontra McŚwiat* (*Jihad vs. McWorld*), Warszawa: Wydawnictwo Literackie Muza S.A., 1997.
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ADDITIONAL LITERATURE:

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[108] Scheppe, Wolfgang, *Migropolis: Venice – Atlas of Global Situation*, Hatje Cantz Verlag, 2009.
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[111] Stelarc, "Towards the Post-Human", *Architects in Cyberspace*, *Architectural Design,* 1995, no 118.
[112] Zellner, Peter, *Hybrid Space: New Forms in Digital Architecture*, London: Thames & Hudson, 1999.

COURSE ADVISOR (NAME, SURNAME, E-MAIL)

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EQUIVALENCY MATRIX OF LEARNING OUTCOMES FOR COURSE
DESIGN STUDY: META-HABITAT IN DIFFERENT CULTURES.
WITH THE LEARNING OUTCOMES FOR ARCHITECTURE AND URBAN PLANNING MAJOR

Course learning outcome	Relation of course outcome with learning outcomes formulated for the major and concentration	Course objectives	Curriculum content	No. of teaching tool
PEK_W01 (knowledge)	**K2AiU_W01** **K2AiU_W02** **S2AR_W01** **S2AR_W05**	C2, C3	Lec1-Lec15 Pr1-Pr5	N1, N5
PEK_W02	**S2AR_W02**	C2, C3	Lec1-Lec15 Pr1-Pr5, Pr9	N1, N5
PEK_W03	**S2AR_W01** **S2AR_W02**	C4	Lec2-Lec14 Pr2-Pr13	N1, N5
PEK_W04	**K2AiU_W02** **S2AR_W01**	C1, C3, C5, C6	Lec1-Lec15 Pr1-Pr15	N1, N5
PEK_W05	**K2AiU_W02** **S2AR_W01**	C1, C4, C5, C6	Lec1, Lec4, Lec15 Pr4-Pr13	N1, N5
PEK_U01 (skills)	**K2AiU_U01**	C1, C3, C6	Pr1-Pr15	N5
PEK_U02	**S2AR_U01**	C1, C3, C6	Pr1-Pr15	N5
PEK_U03	**K2AIU_U04** **S2AR_U03**	C2, C3, C5, C6	Pr1-Pr15	N5
PEK_U04	**K2AiU_U01** **K2AIU_U04** **K2AIU_U05** **S2AR_U03**	C1, C5, C6	Pr1-Pr15	N5
PEK_U05	**K2AiU_U01** **S2AR_U04** **S2AR _U07**	C1, C5, C6	Pr4-Pr13	N5
PEK_U06	**K2AiU_U01** **S2AR_U04**	C1, C5, C6	Pr5, Pr10, Pr15	N5
PEK_U07	**K2AiU_U01** **S2AR_U03**	C1, C5, C6	Pr5, Pr10, Pr15	N5
PEK_K01 (competencies)	**S2AR_K02**	C2, C3, C5, C6	Lec1, Lec 15 Pr1, Pr2, Pr9, Pr14	N1, N5
PEK_K02	*K2AIU_K04* **S2AR_K01**	C2, C3, C4, C5, C6	Lec1-Lec15 Pr1-Pr15	N1, N5
PEK_K03	*K2AIU_K02*	C1, C6	Pr1-Pr15	N5

FACULTY OF ARCHITECTURE

COURSE SYLLABUS

DESIGN STUDY: Workplace ergonomics

Academic major: **ARCHITECTURE AND URBAN PLANNING**
Study cycle and study mode: Second cycle, full-time / part-time
Course type: elective
Course code: AUA107689wP
Group of courses: YES

	Lecture	Tutorial	Lab	Project	Seminar
Number of contact hours	15			45	
Number of student workload hours				120	
Grading policy				pass with grade	
Mark (X) for final course in a group of courses					
ECTS points:				4	
including ECTS points for practical hours (P)				3	
Including ECTS points for contact hours (CH)				1	

PREREQUISITES RELATING TO KNOWLEDGE, SKILLS AND OTHER COMPETENCIES

1. KNOWLEDGE

Knowledge of technical problems related to programming and designing of architectural structure and their furnishings: credit for courses in building engineering and earlier project courses.

2. SKILLS:

Skills in analyzing the needs of occupants and evaluating the mutual relations between small functional units in interiors. Ability to apply different methods of composition, technology and materials in presenting architectural concepts: ability to use freehand drawing techniques and knowledge of computer-aided architectural design software.

3. OTHER COMPETENCIES:

Ability to take into consideration the non-technical aspects of design, especially functional, psychological and aesthetic needs of future occupants in the proposed interiors and their furnishings.

COURSE OBJECTIVES

C1 - To introduce students to the basic problems of designing different types of rooms and their furnishings in terms of work comfort.
C2- To acquaint students with the influence of functional requirements on the spatial organization and ergonomic requirements on the functional quality of selected types of rooms.
C3- To develop skills in verifying the degree to which rooms are adapted to serve basic functional and spatial needs of people at work.
C4- To present the possibilities of applying diversified solutions related to materials, finishes, decorations and aesthetics as well as specialist the furnishings for different kind of work.
C5- To develop skills in applying color solutions in interiors.
C6- To acquaint students with the development prospects in interior design and diversified work stations.
C7 - To develop skills in designing and presenting medium-complex architectural concepts

COURSE LEARNING OUTCOMES

1. KNOWLEDGE

PEK_W01: Demonstrate systematic and theoretically grounded general knowledge of programming and designing selected types of rooms and work spaces (mainly offices). Demonstrate rudimentary knowledge of technical problems related to programming, designing and creating such structures.
PEK_W02: Describe the types and character of work (in the office, kitchen, etc..) and functional and spatial needs of people working.
PEK_W03: Describe characteristics of contemporary interior design and work spaces.
PEK_W04: Demonstrate general knowledge of safety and designing standards and of selected types of of rooms with work spaces. Recognize basic regulations pertaining to technical requirements for rooms and work spaces in terms of ergonomics standards.
PEK-W05: Understand the relationships and dependencies between designing interiors and non-technical aspects that influence the architectural solutions and aspects of society, environment, humanization of space of work, investment economics, etc.

2. SKILLS:

PEK_U01: Integrate and apply technical and non-technical knowledge in solving a design problem pertaining to an interior, room, elements of finishes and furnishings (especially work spaces).
PEK_U02: Understand the cultural constraints and the mutual relations between the structure and the social surroundings. Create functional and spatial program of structures in accordance with functional, psychological and aesthetic needs of working occupants.
PEK_U03: Create a basic conceptual architectural design of interior design and design of work spaces, taking into account the functional - spatial solutions and technical solutions pertaining to general construction, finishes and furnishings.
PEK_U04: Demonstrate the ability to apply traditional and electronic technical means in presenting architectural concepts. Prepare documentation for the design task using computer aided design software. Use appropriate computer assisted design tools to simulate the proposed space and verify the correctness of interior elements, among others in adapting them to essential functional and spatial needs of people and the specificity and requirements associated with work spaces.

3. SOCIAL COMPETENCIES

PEK_K01: Understand the role of architectural space in the shaping of processes, rooms, work spaces and work comfort.
PEK_K02: Understand the role of non-technical aspects and consequences of interior design and design of work spaces, and especially the influence on the surrounding space and the associated responsibility for decisions.
PEK_K03: Understand the importance of the design of work spaces and its impact on quality of life of contemporary society.

CURRICULUM CONTENT		
Mode of teaching - lectures		**Number hours**
Lec1	Organizational meeting, justification of the need to complete the course	1
Lec2	Work in the past and present, history and the interdisciplinary nature of ergonomics	1
Lec3	Anthropometric features, percentile measures, demographic trends	1
Lec4	Man as the measure for creating rooms and work spaces	1
Lec5	Ergonomics and physiology of sitting, working in a seated position	1
Lec6	Working surfaces, diversified functional arrangements and levels of work	1
Lec7	Basic types of work and workplaces.	1
Lec8	Ergonomics of storage furniture in the work environment	1
Lec9	Work comfort vs rooms microclimate	1
Lec10	Influence of daylight and artificial light on the comfort of work	1
Lec11	Psychological aspects of the work environment	1
Lec12	Operational Health and Safety issues	1
Lec13	Technical aspects vs work quality	1
Lec14	Housework, their specificity and the role in the household	1

Lec15	Work spaces vs. the legislation in Poland and other countries	1
	Total hours	**15**

Mode of teaching - project		**Number hours**
Pr1	Scope of the project, course completion requirements, literature. Overview of backgrounds and choice of project topics (single rooms). Assignment of design topics to students.	3
Pr2	In-class assignment: functional program, conceptual sketch of the interior, scheme of functional zones, communication layout and interior composition (functional arrangement, mood and decor of the interior). Axonometric drawings or perspective of the whole development. Graphical technique of the student's choosing.	3
Pr3	Review of the in-class assignment. Analysis of the topics: functional programming, schemes of relations between main functional zones in the project. Consultations.	3
Pr4	Preliminary concept of the functional and spatial solution of interior. Functional diagrams. Black and white graphic. Consultations.	3
Pr5	Functional and spatial concept of interior, specialist equipment, determining the mood and decor, projections, typical cross sections, axonometric and perspective drawings. Black and white graphic. Consultations.	3
Pr6	Review of work, class presentation and discussion.	3
Pr7	Functional and spatial concept of interior, specialist equipment, determining the mood and decor, projections, typical cross sections, axonometric and perspective drawings. Black and white graphic. Consultations.	3
Pr8	Detailed functional and spatial concept of interior, specialist equipment, determining the mood and decor, projections, cross sections, axonometric and perspective drawings. Black and white graphic. Consultations.	3
Pr9	Detailed functional and spatial concept of interior, projections, specialist furnishings, sections, axonometric and perspective drawings. Samples of color and choice of materials. Consultations.	3
Pr10	Review of work, class presentation and discussion.	3
Pr11	Functional and spatial concept of an interior. Ergonomic analysis of a s selected fragment of the project in the relation man – technical product. Samples of color and choice of materials. Consultations.	3
Pr12	Functional and spatial concept of an interior. Ergonomic analysis of movement and maneuvering space of people working. Samples of color in selected fragment of the project. Consultations.	3
Pr13	Functional and spatial concept of an interior - axonometric drawings and perspective. Colors of interiors, principles of graphical presentation. Consultations.	3
Pr14	Colors of interiors, detail, principles of graphical presentation and composition of project panels. Consultations.	3
Pr15	Submission of final project, A3 format. Assessment and credit.	3
	Total hours	**45**
TEACHING TOOLS		
N1. for lectures: Expository lecture, multimedia presentation, problem-solving lecture N5 for project: project presentations, case study, consultation		

ASSESSMENT OF ACHIEVEMENT OF LEARNING OUTCOMES

Assessment (F – formative (during the semester), S – summative (at the end of semester)	Number of learning outcome	Method of assessing the achievement of learning outcome

F1	K2AiU_W01, K2AiU_W02, K2AiU_U01, K2AiU_K01, K2AiU_K03	Written test covering lecture topics - $\alpha_{1=}0,1$
F2	K2AiU_W01, K2AiU_W02, K2AiU_W08, K2AiU_U04, K2AiU_K03	Assessment of the content quality of the project - $\alpha_{2=}0,6$
F3	K2AiU_W01, K2AiU_W02, K2AiU_U01, K2AiU_U04, K2AiU_K03	Assessment for the presentation of problems covered by the project - $\alpha_{3=}0,1$
F4	K2AiU_W01, K2AiU_W04, K2AiU_U04	Assessment for graphic design of the project $\alpha_{4=}0,2$
$P1 = \alpha_1 F1 + \alpha_2 F2 + \alpha_3 F3 + \alpha_4 F4$ gdzie $\alpha_1=0.1$; $\alpha_2=06$; $\alpha_3=01$; a4=02; $\Sigma\alpha = 1$ P1 - Project attendance and final grade for project (weighted average: for projects – 60% , for presentations 10% and graphical appeal 20% and the final written test covering the lectures – 10%).		

BASIC AND ADDITIONAL LITERATURE

BASIC LITERATURE:

[1] **Gedliczka A**., Atlas miar człowieka, CIOP 2001
[2] **Neufert E**., Podręcznik projektowania architektoniczno-budowlanego, Arkady, 1995
[3] **Olszewski J**., Podstawy ergonomii i fizjologii pracy, Wydawnictwo Akademii Ekonomicznej w Poznaniu 1997
[4] **Ramsey Ch**., Architectural Graphic Standards, John Willey & Sons, 1988
[5] zbiorowa, Bezpieczeństwo pracy i ergonomia, CIOP 1997

ADDITIONAL LITERATURE:

[1] **Charytonowicz J**., Projektowanie laboratoryjnych stanowisk pracy, Oficyna Wydawnicza Politechniki Wrocławskiej, 1994
[2] **Górska E**., Ergonomia w projektowaniu stanowisk pracy…, Oficyna Wydawnicza PW 1998
[3] **Tilley A**., The measure of man and woman, Whitney 2001
[4] **Zeugner G**., Barwa i człowiek, Arkady 1965

Czasopisma architektoniczne i wnętrzarskie dostępne w bibliotekach wydziałowych

COURSE INSTRUCTOR (NAME, SURNAME, E-MAIL)

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EQUIVALENCY MATRIX OF LEARNING OUTCOMES FOR COURSE
DESIGN STUDY: WORKPLACE ERGONOMICS
WITH THE LEARNING OUTCOMES FOR ARCHITECTURE AND URBAN PLANNING MAJOR

Course learning outcome	Relation of course outcome with learning outcomes formulated for the major	Course objectives	Curriculum content	Number of teaching tool
PEk_W01	K2AIU_W01, K2AIU_W02	C1, C2, C3	Lec1 – Lec15	N1

PEk_W02	K2AIU_W01, K2AIU_W02	C1, C2, C3	Lec3 – Lec14	N1
PEk_W03	K2AIU_W01, K2AIU_W02,	C1, C2, C3, C4, C5, C6, C7	Lec2, Lec15	N1
PEk_W04	K2AIU_W02, K2AIU_W03	C1, C2, C3, C4, C6, C7	Lec3 – Lec7, Lec9, Lec10, Lec12, Lec 14, Lec15	N1
PEk_W05	K2AIU_W01, K2AIU_W02, K2AIU_W04	C1, C2, C3, C4, C5, C6, C7	Lec2, Lec4, Lec11 – Lec13, Lec15	N1
PEk_U01	K2AIU_U01, K2AIU_U03, K2AIU_U04	C1, C2, C3, C4, C5, C6	Pr2 – Pr14, Lec2 – Lec15	N1, N5
PEk_U02	K2AIU_U01, K2AIU_U03, K2AIU_U04	C1, C2, C3, C4, C5, C6	Pr2 – Pr14, Lec2 – Lec15	N1, N5
PEk_U03	K2AIU_U01, K2AIU_U04, K2AIU_U04	C1, C2, C3, C4, C5,C6	Pr2 – Pr14	N5
PEk_U04	K2AIU_U01, K2AIU_U03	C1, C5, C6	Pr2 – Pr14	N5
PEk_K01	K2AIU_K02, K2AIU_K03,	C1, C2, C3, C4, C5	Pr2 – Pr14, Lec2 – Lec4, Lec11, Lec12	N1, N5
PEk_K02	K2AIU_K02, K2AIU_K03,	C5, C6	Lec2, Lec11, Lec12, Lec15	N1
PEk_K03	K2AIU_K04,	C6	Lec1 – Lec15	N1

Zał. nr 4 do ZW 33/2012

FACULTY OF ARCHITECTURE

COURSE SYLLABUS

DESIGN STUDY: DESIGNING ENVIRONMENTAL PARAMETERS OF BUILDINGS

Course title in English Designing Environmental Performance of buildings
Academic major: **ARCHITECTURE AND URBAN PLANNING**
Study cycle and study mode: Second cycle, full-time / part-time
Course type: elective
Course code: AUA107710wP
Group of courses YES

	Lecture	Tutorial	Lab	Project	Seminar
Number of contact hours	15			45	
Number of student workload hours				120	
Grading policy				pass with grade	
Mark (X) for final course in a group of courses				X	
ECTS points:				4	
including ECTS points for practical hours (P)				3	
including ECTS points for contact hours (CH)				1	

PREREQUISITES RELATING TO KNOWLEDGE, SKILLS AND OTHER COMPETENCIES

27. Completion of the course in *Designining Sustainable Structural Units*

COURSE OBJECTIVES

C1- To introduce students to all environmental constraints of architectural design, described and measured using the LCA method (*Life Cycle Assessment)* and other systems that evaluate the impact of investments on the environment. Developing knowledge of physics of buildings.
C2 - To introduce students to the features of modern and traditional building technologies, which influence the condition of the natural environment, the quality of building use, economy of investments and physics of buildings. Theoretical knowledge about the problems arising from the current model of civilization development and occurring in urban areas (consumption of natural resources, pollution, climate, environmental quality); their impact on the human living space; and the advantages and disadvantages of the solutions proposed in the model of sustainable development.
C3 - to develop skills in estimating and minimizing the negative influence of the designed investment on the environment. The ability to collect, process and analyze data that serve as a basis for calculating the environmental performance of investments (use of energy, water, materials and land area, the emission of harmful compounds, eco-durability), and the ability to indicate the relationship between the value of these indicators and the quality of human life in the urban environment.

COURSE LEARNING OUTCOMES

Related to knowledge:

PEK_W01

Demonstrate general knowledge of methodology for the creation and use of environmental parameters of buildings.

PEK_W02

Understand the relationships and dependencies between individual design solutions (land use plans, architecture, constructions, installations) and their impact on the state of the natural environment and quality of building use.

Related to skills:

PEK_U01

Analyze the existing condition of the given urbanized area by describing resources, and their evaluation and identifying the problem areas.

PEK_U02

Indicate possible design solutions leading to the minimization of the negative impact of the building on the environment.

PEK_U03

Evaluate, estimate and calculate selected environmental parameters of buildings.

PEK_U04

Prepare construction project with elements of detailed design, justified by conclusions from the completed analyses and justified economically, as well as optimized in terms of energy management, water, greenery and waste management.

Related to social competencies:

PEK_K01

Demonstrate attention to a clear study and presentation of the results of project work (text, graphics, multimedia presentation).

PEK_K02

Demonstrate willingness to cooperate in small, multi-disciplined design group.

PEK_K03

Acts in accordance with principles of professional ethics of architects.

CURRICULUM CONTENT

Mode of teaching - lectures		**Number hours**
Lec1	Scope of the lecture, course completion requirements, literature. Revision: concepts, legal basis. Sustainability as the solution to the problems of civilization development. History of ideas. Not obvious solutions - traps for ideas.	1
Lec2	Sustainability concepts. Good practices in sustainable development, the influence of sustainability on architecture and urban design.	1
Lec3	Research method: resource, valorization, conclusions. The application of the method in integrated design process.	1
Lec4	Design intent: orientation, layout of rooms, RES, energy standards	1
Lec5	Design intent: energy losses and gains, methods of ventilation, partitions, sun shields	1
Lec6	Energy 1: definition, strategies of energy management in buildings - limiting losses and generating profits	2
Lec7	Energy 2: energy consumption, glass walls, heat bridges, tightness of buildings	1

Lec8	Energy 3: integrated energy, environmental profile of materials	1
Lec9	Energy 4: heat sources, OZE, ventilation, electric energy demand	1
Lec10	Energy 5: energy performance of buildings	1
Lec11	Sustainable space management. BAF, Environmental compensation. Greenery on the plot, selection of vegetation in terms of its impact on the environment.	1
Lec12	Water: water management strategies in a building, rainwater, gray, black	1
Lec13	Waste: household and construction	1
Lec14	Economic problems, summary.	1
	Total hours	**15**

Mode of teaching - project		**Number of hours**
Pr1	1. Scope of the project, course completion requirements, literature. 2. Assignment of main and additional individual design topics to students. 3. definition of the principles of cooperation in a team 4. interview with investors	3
Pr2	1. presentation of inspirations for projects 2. analysis of the terrain, functional-spatial analysis of the natural, cultural environment, landscape 3. Valorization of resources, conclusion for project	3
Pr3	1. preliminary concept of a house on the basis of conclusions: house shape, layout and size of rooms, 1:100 scale 2. formulation of the main project intent: management of energy, materials, greenery, water, waste	3
Pr4	1. Calculations: A / V ratio, surface of translucent and opaque partitions, U factor of partitions, heat loss/gain 2. design studies, shape of house window/cover 3. details of potential heat bridges	6
Pr5	1. material solutions from the point of view of integrated energy and environmental criteria 2. choice of heat sources with account being taken of OZE 3. choice of ventilation system 4. design studios material variants of elevation, technical rooms furnishings, equipment 5. estimation of energy-related costs	6
Pr6	Implementation of energy performance of a building	3
Pr7	Design study optimization of project in terms of greenery, BAF calculations	3
Pr8	Design studies: optimization of the project in terms of water management, water demand calculations, calculation of retention reservoir sizes, estimating financial expenditures associated with water.	6
Pr9	Design studies: optimizing the project in terms of storage and waste management, plan of construction materials, calculating the amount of waste.	3
Pr10	Estimating the cost of the investment, project verification	3
Pr11	Optimization and verification of project	3
Pr12	Comprehensive preparation of the project and presentation	3

	Total hours	**45**

TEACHING TOOLS	
N3.	Expository lecture with multimedia presentation.
N4.	Problem solving lecture with multimedia presentation.
N5.	Site visit for project topic.
N6.	Presentations of projects (multimedia or traditional) – in front of the group and in public by students.
N7.	Interactive lecture and project
N8.	Project workshop with discussions.
N9.	Preparation of project on paper or in digital form.
N10.	Individual consultation.

ASSESSMENT OF ACHIEVEMENT OF LEARNING OUTCOMES

Assessment (F – formative (during the semester), S – summative (at the end of semester)	Number of learning outcome	Method of assessing the achievement of learning outcome
F1	PEK_U01,PEK_K01 PEK_K02,PEK_W01	Assessment of the analytical part of the project: scope of analysis, validity of conclusions, methods of calculating indices
F2	PEK_W02,PEK_U02, PEK_U04, PEK_K01, PEK_K02	Assessment of the correctness of the solutions for the form and function in the building, form of presentation.
F3	PEK_W01,PEK_W02, PEK_U02,PEK_U03, PEK_U04 PEK_K01,PEK_K02	Assessment of the correctness of the solutions related to energy management, form of presentation.
F4	PEK_W01,PEK_W02 PEK_U02,PEK_U03, PEK_U04 PEK_K01,PEK_K02	Assessment of the correctness of the solutions related to water management, form of presentation.
F5	PEK_W01,PEK_W02 PEK_U02,PEK_U03, PEK_U04 PEK_K01,PEK_K02	Assessment of the correctness of the solutions related to development of area around the building and choice of flora, form of presentation.
F6	PEK_W01,PEK_W02 PEK_U02,PEK_U03, PEK_U04 PEK_K01,PEK_K02	Assessment of the correctness of the solutions related to waste management, form of presentation.
F7	PEK_W01, W02, PEK_U01 - U02	Final test result
P = Weighted average: (F1x0,1+F2x0,2+F3x0,2+F4x0,2+F5x0,2+F6x0,1)x0,6 +F7x0,4		

BASIC AND ADDITIONAL LITERATURE

BASIC LITERATURE:

[1] Gauzin-Müller D.: *Sustainable architecture and urbanism.* Birkhauser 2002.
[2] Schmitz-Günther T.: *Living Spaces. Sustainable building and design.* Könemann. 1999.
[3] Thompson J. W., Sorvig K.: *Sustainable landscape construction. A guide to green building outdoors*. Island Press 2000.
[4] Brown G. Z., DeKay M.: *Sun, wind & light. Architectural design strategies.* John Wiley & Sons inc. 2001.
[5] Brown R. D., Gillespie T.J.: *Microclimatic landscape design. Creating thermal comfort and energy efficiency.* John Wiley & Sons inc. 1995.
[6] Lucket K.: *Green roof construction and maintenance.* McGraw-Hill 2009.
[7] Minke G.: *Building with earth. Design and technology of sustainable architecture.* Birkhauser 2009.
[8] Pfundstein M., Gellert R., Spitzner M. H.: *Insulating materials. Principles materials applications.* Birkhauser 2008.
[9] Hegger M., Auch-Schwelk V., Fuchs M., Rosenkranz T.: *Constructions materials manual.* Birkhauser 2006.
[10] Hegger M., Fuchs M., Stark T., Zeumer M.: *Energy manual.* Birkhauser 2008.

ADDITIONAL LITERATURE:

[1] Legal acts and websites related to the Act
[2] Skolimowski H.: *Ekofilozofia.* Łódź 1997.
[3] Farr D.: *Sustainable urbanism. Urban design with nature.* John Wiley & Sons inc. 2008.
[4] Girling C., Kellett R.: *Skinny streets & green neighborhoods. Design for environment and community.* Island Press 2005.
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[6] Parker H. S., Macguire J. W., Ambrose J.: *Simplified site engineering.* John Wiley & Sons inc. 1991.
[7] Educational materials GBC, LEED, BREEM, Ecohomes etc.

COURSE ADVISOR (NAME, SURNAME, E-MAIL)

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EQUIVALENCY MATRIX OF LEARNING OUTCOMES FOR COURSE
Design Study DESIGNING ENVIRONMENTAL PARAMETERS OF BUILDINGS
WITH THE LEARNING OUTCOMES FOR ARCHITECTURE AND URBAN PLANNING MAJOR

Course learning outcome	Relation of course outcome with learning outcomes formulated for the major and concentration	Course objectives	Curriculum content	No. of teaching tool
PEK_W01 (knowledge)	K2AiU_W02, K2AiU_W03, S2AR_W03 – W05	C1, C2, C3	Lec5 – Lec14	1,2,5
PEK_W02	K2AiU_W02, K2AiU_W03, K2AiU_W08, S2AR_W03 – W08	C1, C2, C3	Lec1 – Lec14	1,2,5
PEK_U01 (skills)	K2AiU_U04, K2AiU_U05, K2AiU_U09	C1	Pr1, Pr2	3-6, 8
PEK_U02	K2AiU_U04, K2AiU_U05, K2AiU_U09 S2AR_U03 – U07	C1,C2	Pr3 – Pr10	4-8
PEK_U03	K2AiU_U04, K2AiU_U05, S2AR_U04, U05, U07	C3	Pr4 – Pr10	4-8
PEK_U04	K2AiU_U04, K2AiU_U05, K2AiU_U09 S2AR_U03 – U07	C2, C3	Pr1 – Pr12	4-7
PEK_K01 (competencies)	K2AiU_K02	C1, C3	Pr2 – Pr9 Pr12	4.7
PEK_K02	K2AiU_K02	C1, C3	Pr1 – Pr12	4-7
PEK_K03	K2AiU_K04, K2AiU_K05 S2AR_K01, K02	C1, C3	Pr1 – Pr12	5.6

FACULTY OF ARCHITECTURE

COURSE SYLLABUS

STUDIUM PROJEKTOWE: MIEJSKIE STREFY NADWODNE PROJEKTOWANIE TERENÓW NADWODNYCH

Course title in English Design Studio: WATERFRONT - URBAN WATERSIDE ZONES
Academic major: Architecture and Urban Planning
Study cycle and study mode: Second cycle, full-time / part-time
Course type: elective
Course code: AUA107727wP
Group of courses YES

	Lecture	Tutorial	Lab	Project	Seminar
Number of contact hours	15			45	
Number of student workload hours				120	
Grading policy				pass with grade	
Mark (X) for final course in a group of courses				x	
ECTS points:				4	
including ECTS points for practical hours (P)				3	
including ECTS points for contact hours (CH)				1	

PREREQUISITES RELATING TO KNOWLEDGE, SKILLS AND OTHER COMPETENCIES

None

COURSE OBJECTIVES

C1 - To introduce students to development prospects of cities with consideration of the influence of waterside locations.

C2 - To prepare students to implement tasks related to developing waterfront zones – public spaces, semi-public space, private space, recreation and sports areas.

C3 - To introduce students to notions and problems of regulating rivers, coast lines, hydrotechnical structures, waterways.

C4 - To understand the values of opening the city towards the water, in the context of elements of landscape and spatial and functional composition - sport, recreation, transport and other advantages e.g.. economic.

C5 - To develop skills in acquiring knowledge, through analysis and presenting examples of urban solutions related to streams and water reservoirs.

C6 - To acquaint students with principles of designing space and structures related to waterways.

COURSE LEARNING OUTCOMES

Related to knowledge:

PEK_W01 - Demonstrate knowledge of the structure of example urban solutions related to streams and water reservoirs.

PEK_W02 identify and understand advantages and possibilities resulting from connecting urban structure with streams and water reservoirs.

PEK_W03 demonstrate general knowledge of historic development of urban structures with account being taken of the influence of waterside location.

Related to skills:

PEK_U01 Independently create a project of coastal area development with special regard to building structures, prepare appropriate documentation for this project and present it.

PEK_U02 Prepare and present results of research and analysis pertaining to relations between urban structure and streams and water reservoirs.

Related to social competencies:

PEK_K01 Understand the responsibility for decisions.

CURRICULUM CONTENT		
Mode of teaching - lectures		**Number of hours**
Lec1	Introduction to the course; overview of educational scope, course completion requirements, presentation of basic and additional literature. Description of development of structures of selected cities located by streams or water reservoirs	1
Lec2	Tradition and contemporaneity of building in coastal areas in Poland and in the world. Development of tourism and water recreation.	2
Lec3	Basic legal regulations. Description of Wrocław's Water Station.	2
Lec4	Water engineering in urban areas, hydraulic structures, flood control systems. Conditions of navigability of seaways. Economic and tourist docks in cities.	2
Lec5	Developing coastal areas – recreation and sports areas.	2
Lec6	Developing coastal areas - public spaces, semi-private and private.	2
Lec7	Revitalization of postindustrial and port areas – e.g. Rotterdam, London etc.	2
Lec8	New waterside districts - e.g. HafenCity Hamburg, Ijburg in Amsterdam or others. Water cities, houses on water – development trends.	2
	Total hours	**15**

Mode of teaching - project		**Number of hours**
Pr1	Scope of the project, course completion requirements, literature. Assignment of individual or group design topics to students.	3
Pr2	Overview and summary of the problems associated with projects. Students' individual project work.	3
Pr3	Overview and summary of the problems associated with projects. Students' individual project work.	3
Pr4	Overview and summary of the problems associated with projects. Students' individual project work. Presentation and assessment of the first drafts of projects.	3

Pr5	Overview and summary of the problems associated with projects. Students' individual project work.	3
Pr6	Overview and summary of the problems associated with projects. Students' individual project work.	3
Pr7	Overview and summary of the problems associated with projects. Students' individual project work.	3
Pr8	Overview and summary of the problems associated with projects. Students' individual project work. Presentation and assessment of the second stage of projects.	3
Pr9	Overview and summary of the problems associated with projects. Students' individual project work.	3
Pr10	Overview and summary of the problems associated with projects. Students' individual project work.	3
Pr11	Overview and summary of the problems associated with projects. Students' individual project work. Presentation and assessment of the third stage of projects.	3
Pr12	Overview and summary of the problems associated with projects. Students' individual project work.	3
Pr13	Overview and summary of the problems associated with projects. Students' individual project work.	3
Pr14	Overview and summary of the problems associated with projects. Students' individual project work. Presentation, submission and assessment of final projects by students.	3
Pr15	Presentation and submission of final projects. Credit	3
	Total hours	**45**

TEACHING TOOLS
N1. Expository lecture with elements of problem-solving lecture. N2. Multimedia presentations N3. Interactive lecture and project. N4. Individual work – preparation for project. N5. Consultations. N6. Individual work – study and preparation for the final test.

ASSESSMENT OF ACHIEVEMENT OF LEARNING OUTCOMES

Assessment (F – formative (during the semester), S – summative (at the end of semester)	Number of learning outcome	Method of assessing the achievement of learning outcome
F1	PEK_U01, PEK_U02, PEK_K01	Assessment of the presentation of intermediate stages of the project and submission of the finished project.
F2	PEK_W01, PEK_W02, PEK_W03	Assessment of active participation in discussions and final grade for the test covering lectures.
P = 0.7 F1 + 0.3 F2		

BASIC AND ADDITIONAL LITERATURE

BASIC LITERATURE:

[5] Ast Robert „Architektura wybrzeża: uwarunkowania i rozwój.", Wydawnictwo Politechniki Poznańskiej, Poznań 1999

[6] Pancewicz, Alina. „Rzeka w krajobrazie miasta" Gliwice : Wydaw. Politechniki Śląskiej, 2004.

[7] Siemiński Janusz, „Śródlądowe zespoły miejsko – portowe. Przyczynek do planowania przestrzennego" PWN Warszawa 1973

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[10] Gastil Raymond W. "Beyond the edge. New York's new waterfront" New York Princeton Architectural Press, cop. 2002.

[11] Wierzbicka Bożena "Miasto tyłem do rzeki: materiały sesji naukowej, Warszawa, 22-23 czerwca 1995", Warszawa Towarzystwo Opieki nad Zabytkami 1996

ADDITIONAL LITERATURE:

[24] Kaniecki Alfred „Poznań. Dzieje miasta woda pisane. Część I Przemiany rzeźby i sieci wodnej". Poznań 1993

[25] Czerner Olgierd, red. "Oa we Wrocławiu" Wrocław Ossolineum 1984 PhD

[26] Moretti Marta " 10 Zasad Zrównoważonego Rozwoju Miejskich Terenów Nabrzeżnych" materiały konferencyjne "Tereny nadrzeczne przestrzenią integracji mieszkańców" Gdańsk 2010

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EQUIVALENCY MATRIX OF LEARNING OUTCOMES FOR COURSE
STUDIUM PROJEKTOWE: MIEJSKIE STREFY NADWODNE PROJEKTOWANIE TERENÓW NADWODNYCH

WITH THE LEARNING OUTCOMES FOR ARCHITECTURE AND URBAN PLANNING MAJOR

Course learning outcome	Relation of course outcome with learning outcomes formulated for the major	Course objectives	Curriculum content	No. of teaching tool
PEK_W01 (knowledge)	**K2AiU_W02, K2AiU_W06,**	C1, C2, C3	Lec1 – Lec8,	N1, N2, N3, N5, N6,
PEK_W02	**K2AiU_W02, K2AiU_W06,**	C4	Lec1 – Lec8,	N1, N2, N3, N6
PEK_W03	**K2AiU_W06**	C1, C3	Lec1 – Lec8,	N1, N2, N3, N6
PEK_U01 (skills)	**K2AIU_U04, K2AIU_U07**	C6	P1, P15	N2, N3, N4, N5,
PEK_U02	**K2AIU_U03**	C5	P1, P15	N2, N3, N5
PEK_K01 (competencies)	**K2AIU_K03**	C4, C5, C6	P1, P15	N2, N3, N4, N5,

FACULTY OF ARCHITECTURE

COURSE SYLLABUS

DESIGN STUDY: FUTURISTIC RESIDENTIAL ARCHITECTURE.

Course title in English Design Studio: Futuristic Housing Architecture
Academic major: **ARCHITECTURE AND URBAN PLANNING**
Study cycle and study mode: Second cycle, full-time / part-time
Course type: elective
Course code AUA107690wP
Group of courses YES

	Lecture	Tutorial	Lab	Project	Seminar
Number of contact hours	15			45	
Number of student workload hours				120	
Grading policy				pass with grade	
Mark (X) for final course in a group of courses				X	
ECTS points:				4	
including ECTS points for practical hours (P)				3	
including ECTS points for contact hours (CH)				1	

PREREQUISITES RELATING TO KNOWLEDGE, SKILLS AND OTHER COMPETENCIES

28. Demonstrate elementary knowledge of problem of single and multi-family residential architecture.

COURSE OBJECTIVES

C1 - To develop creativity and skills in designing futuristic residential architecture.
C2 - To develop skills in verifying the knowledge and problems related to futuristic residential architecture.
C3 – To introduce students to the possibilities of developing futuristic residential architecture based on current and predicted level of social and technological and technical development.

COURSE LEARNING OUTCOMES

Related to knowledge:

PEK_W01 Demonstrate knowledge of problems in designing futuristic residential architecture.

PEK_W02 Demonstrate general knowledge of predicted and possible changes in designing futuristic architecture, related to new possibilities of creation and new tools of architectural work.

PEK_W03 demonstrate general knowledge of application of technologically advanced building materials and their impact on possibilities of developing modern residential architecture.

Related to skills:

PEK_U01 define the possible development prospects of residential architecture based on current and future predictions related to general social and technical-technological development.

PEK_U02 use the required interdisciplinary knowledge to create futuristic residential architecture.

PEK_U03 use contemporary technical means to express architectural thought.

Related to social competencies:

PEK_K01 Demonstrate awareness of the changes occurring in the dynamically developing societies with a high level of civilizational development.

PEK_K02 Demonstrate awareness of the importance of searching for innovative solutions of residential architecture, also in relation to sustainable architecture, the need to protect the natural natural environment and use unconventional sources of energy.

CURRICULUM CONTENT		
Mode of teaching - lectures		**Number of hours**
Lec1	Introduction to the course. Futurology - historical background. Forecasting - time horizon and methodology.	2
Lec2	Visions of the residential environment vs the social and demographic processes. Subcultures of the future.	1
Lec3	Visionaries of architecture - architectural visions.	1
Lec4	Computer Design vs visions of futuristic architecture.	1
Lec5	New forms of (not only) residential architecture. Digital Architecture	1
Lec6	Architecture in motion, mobility concept, contemporary nomadism.	2
Lec7	Safety.	1
Lec8	New? residential environment. Acquire space to live.	1
Lec9	Energy-saving, ecology and their influence on architecture of the future	2
Lec10	High tech versus low tech. Global versus local architecture. Transparent architecture past – future – modernity. Material - form - function participation.	2
Lec11	Contemporary and prospective threats and their possible influence on future residential architecture.	1
	Total hours	**15**

Mode of teaching - project		Number of hours
Pr1	Introduction to the project. Definition of the project topic and methodology of work. Scope of the project, course completion requirements. Discussion - workshop.	3
Pr2	Choice of hypothetical problem of future residential architecture and definition of the methods of solving it. General discussion in groups and subgroups, workshop. Consultations.	3
Pr3	And review of concept – presentations in front of group, discussion, definition of subsequent stages of work, assessment.	3
Pr4	Continuation of work on the project. Functional and spatial concept. Literature studies. Analysis of selected examples. Workshop. Consultations.	3
Pr5	Workshop, construction of physical and computer spatial model of residential unit. Consultations.	3
Pr6	Functional and spatial solutions of a residential unit. Views, sections, elevations. Workshop. Consultations.	3
Pr7	2nd review of the advancement of projects – presentations in front of the group, discussion, definition of subsequent stages of work, assessment.	3
Pr8	Workshop. Attempt to define the best structural and material solution for the selected spatial form. Consultations.	3
Pr9	The application of pro-ecological solutions in projects, related to energy-saving and obtaining energy from unconventional sources. Self-sufficiency of residential units. Consultations.	3
Pr10	Consultations.	3
Pr11	3rd review of projects – presentations in front of the group, discussion, definition of subsequent stages of work, assessment.	3
Pr12	Development of visualization. Consultations.	3
Pr13	Detail solutions Consultations.	3
Pr14	Graphical presentation of the project. Consultations.	3
Pr15	Presentation and submission of the project. Discussion. Assessment and credit.	3
	Total hours	**45**

TEACHING TOOLS
N1. for lectures: multimedia presentation, problem-solving lecture N2. For project: project presentation, consultations, discussion

ASSESSMENT OF ACHIEVEMENT OF LEARNING OUTCOMES

Assessment (F – formative (during the semester), S – summative (at the end of semester)	Number of learning outcome	Method of assessing the achievement of learning outcome
F1	PEK_W01 PEK_U01	Project review, discussion

	PEK_K01	Assessment of the content quality, presentation and graphical design.
F2	PEK_W01 PEK_W02 PEK_U01 PEK_U02 PEK_K01 PEK_K02	Project review, discussion Assessment of the content quality, presentation and graphical design.
F3	PEK_W01 PEK_W02 PEK_W03 PEK_U01 PEK_U02 PEK_U03 PEK_K01 PEK_K02	Project review, discussion Assessment of the content quality, presentation and graphical design.
P - Final grade for project (weighted average for three reviews of projects F1+F2+F3 – 60% , for presentations 20% and graphical design 20%).		

BASIC AND ADDITIONAL LITERATURE

BASIC LITERATURE:

[163] Attali J., *Krótka historia przyszłości*. Wydawnictwo: Prószyński i S-ka Warszawa
[164] Baudrillard J., *Społeczeństwo konsumpcyjne. Jego mity i struktury.* Wydawnictwo Sic!, Warszawa 2006.
[165] Bauman Z., *Nowoczesność i zagłada.,* WL Kraków.
[166] Bridget F., *Housing transformations of twenty-first century living.* 2006.
[167] Cerver A.F., *The World of contemporary architecture.* Köln 2005.
[168] Schneider-Skalska G., *Kształtowanie zdrowego środowiska mieszkaniowego. Wybrane Zagadnienia.* Politechnika Krakowska, Kraków 2004
[169] Spiller N. *Visionary Architecture, Blueprints of the Modern Imagination.* Thames & Hudson Ltd, London 2006.
[170] Spiller N. *Digital Architecture Now.* Thames & Hudson, London 2008.
[171] Toffler A. i H., *Budowa nowej cywilizacji.* Zysk i S-ka Wydawnictwo, 1996.
[172] Winskowski P.- red., *Uwarunkowania kulturowe architektury wobec przemian cywilizacyjnych końca XX wieku.* Wydawnictwo AND Kraków – Warszawa 2001.

ADDITIONAL LITERATURE:

[113] Bauman Z., *Płynna nowoczesność*. Wydawnictwo Literackie Kraków 2006.
[114] Czarnecki B., Siemiński W., *Kształtowanie bezpiecznej przestrzeni publicznej.* Difin, Warszawa 2004.
[115] Gehl J, *Życie miedzy budynkami, Użytkowanie przestrzeni publicznych.* Wydawnictwo RAM, Kraków 2009.
[116] Norberg-Schulz C., *Bycie, przestrzeń i architektura.* Wydawnictwo Murator, Warszawa 2000.
[117] Palej A., *Miasta cywilizacji informacyjnej. Poszukiwanie równowagi pomiędzy światem fizycznym a światem wirtualnym.* Politechnika Krakowska, Kraków 2003.
[118] Toffler A., *Szok przyszłości*. Zysk i S-ka Wydawnictwo, Poznań 1998.

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EQUIVALENCY MATRIX OF LEARNING OUTCOMES FOR COURSE
DESIGN STUDY: FUTURISTIC RESIDENTIAL ARCHITECTURE.
WITH THE LEARNING OUTCOMES FOR ARCHITECTURE AND URBAN PLANNING MAJOR

Course learning outcome	Relation of course outcome with learning outcomes formulated for the major	Course objectives	Curriculum content	No. of teaching tool
PEK_W01 (knowledge)	S2AR_W04 S2AR_W05	C1, C2	Lec1-Lec11 Pr1-Pr11	N1, N2
PEK_W02	S2AR_W08	C1, C2, C3	Lec3-Lec8 Pr1-Pr11	N1, N2
PEK_W03	S2AR_W08	C1, C2, C3	Lec9-Lec10 Pr1-Pr11	N1, N2
PEK_U01 (skills)	S2AR_U03	C1, C2	Lec1, Lec2, Lec5, Lec10 Pr1-Pr11	N1, N2
PEK_U02	S2AR_U03	C1, C2	Lec1-Lec11 Pr1-Pr11	N1, N2
PEK_U03	S2AR_U04	C1, C3	Lec3, Lec4, Lec5 Pr1-Pr11	N1, N2
PEK_K01 (competencies)	S2AR_K01	C2, C3	Lec1, Lec2, Lec7, Lec11	N1
PEK_K02	S2AR_K02	C2	Lec5, Lec6, Lec9 Pr1-Pr11	N1, N2

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FACULTY OF ARCHITECTURE

COURSE SYLLABUS

DESIGN STUDY: PROJECTS INVOLVING LOCAL COMMUNITIES

Course title in English Projects involving local communities
Academic major: ARCHITECTURE AND URBAN PLANNING
Course level and study mode: second cycle, full-time/part-time
Course type: elective
Course code: AUA107706wP
Group of courses YES

	Lecture	Tutorial	Lab	Project	Seminar
Number of contact hours	15			45	
Number of student workload hours				120	
Grading policy				pass with grade	
Mark (X) for final course in a group of courses				x	
ECTS points:				4	
including ECTS points for practical hours (P)				3	
including ECTS points for contact hours (CH)				1	

*delete as applicable

PREREQUISITES RELATING TO KNOWLEDGE, SKILLS AND OTHER COMPETENCIES
29. Basic knowledge of spatial composition
30. Understanding of problems related to designing multifunctional centers and areas

COURSE OBJECTIVES

C1 - To introduce students to the problems of socialized process of project management
C2 – to introduce students to the need to take into consideration the social and humanitarian values
C3 – To develop skills in using study materials, analyzing significant constraints of the living environment with special consideration of the social aspect, to prepare studies and analyses, formulate objectives for briefs on their basis related to the scope of the functional and idea program.
C4 – To develop skills in preparing and formulating the concept that meet the requirements of undertaking a socialized design process.

COURSE LEARNING OUTCOMES

Related to knowledge:

PEK_W01: Demonstrate elementary knowledge of environmental circumstances of functioning of local community in urbanized space, identify principles of developing elements of living space; creatively use this knowledge in designing based on circumstances of social environment; substantiate the adopted solution; demonstrate skills in formulating design study in accordance with standards of project drawings.

PEK_W02: Demonstrate knowledge of performing pre-project studies and analysis of residential environment with special consideration of social aspects; create analytical study based on material studies and individual studies : properly classify important circumstances and environmental values (analyze them in the aspect of functional and spatial layout, the natural environment, cultural and social environment), appropriately evaluate them; clearly edit individual stages of analysis (resource, valorization, conclusions); creatively use conclusion of analysis to formulate briefs

PEK_W03: Analyze and interpret design solutions with regard to achieving the planned objectives of social development and accordance with the principles of sustainable development

Related to skills:

PEK_U01: Collect and apply knowledge of non-technical areas in solving design problems pertaining to public space at an urban and architectural scale.

PEK_U02: Apply contemporary techniques, multimedia and materials in presenting architectural concepts. Prepare project using computer aided design software and programs for multimedia presentations. Use appropriate computer aided design tools to simulate, design and verify elements.

PEK_U03: Demonstrate the ability to prepare (using graphics, clear language and forms that are understandable for the local community) and deliver a public presentation (using modern multimedia techniques).

Related to social competencies:

PEK_K01: Demonstrate an awareness and understanding of the importance of social aspects and consequences of socialized designing and the associated responsibility for decisions and form of presentation.

PEK_K02: Understand the importance of socialized design and its impact on quality of life and development of local communities.

CURRICULUM CONTENT

Mode of teaching - lectures		**Number of hours**
Lec1	Basic concepts. Definitions.	1 h
Lec2	Common good. Social capital. Democratization of processes.	1 h
Lec3	Social participation. History and development of an idea.	1 h
Lec4	Social participation in the designing process.	1 h
Lec5	Social participation in the spatial management process.	1 h
Lec6	Assignments related to design involving local communities.	1 h
Lec7	Design involving local communities as a process of information management.	1 h
Lec8	Principles of design involving local communities.	1 h
Lec9	Techniques and tools related to design involving local communities. 1	1 h
Lec10	Techniques and tools related to design involving local communities. 2	1 h
Lec11	Possibilities and constraints of design involving local communities.	1 h
Lec12	Contemporary trends in the development of public space.	1 h

Lec13	Development of design involving local communities.	1 h
Lec14	Examples of good practices.	1 h
Lec15	test	1 h
	Total hours	**15**

Mode of teaching - project		**Number of hours**
Pr1	**a** - Introduction do the course topics: presentation of the objectives, project methods and trends in designing that involves local communities; overview and illustration of the problems of designing that involves the participation local communities; course completion requirements and assessment criteria, list of literature of the subject and educational materials **b** - Introduction to Stage 1 - preliminary work and preparation of required materials and analysis	3
Pr2	**a** - Presentation made by students of the collected materials and photographs **b** - Overview of the problems of pre-project studies, methods of analysis, and the methods of creating and applying them in briefs	3
Pr3	**a** - Completion of In-class Assignment no 1, presentation of the results by students and discussion of results with special focus on the understanding of pre-project analysis method **b** - Individual work of students on conclusions of analysis	3
Pr4	**a** - Individual work of students on the analytical part (problem areas, problem tree, social structure of needs, Workgroup scenarios) **b** - Documenting the results of work and discussion.	
Pr5	**a** - Presentation made by students of the results of their work and discussion **b** - Introduction do stage 2 – Change Slogan, Local Activities Program	3
Pr6	**a** - Presentation made by students of the preliminary studies and discussion **b** - Overview of the problems related to the function of the central area	3
Pr7	**a** - Individual work by students on the program of activities **b** - Overview of contemporary trends in developing public spaces.	3
Pr8	**a** - Completion of In-class Assignment no 2, presentation of the results by students and discussion of results **a** - Individual work of students on stage 3 - the functional and spatial relationship scheme for selected activities	3
Pr9	**a** - Presentation made by students of the concept and discussion **b** - Individual work of students on the scheme	3
Pr10	**a** - Individual work by students on stage 4 – location of central area for activities **b** - Overview of contemporary trends in developing public space programs.	3
Pr11	**a** - Presentation of the working version of the concept, discussion (with special focus on the appropriateness of chosen solutions). **b** - Individual work of students on the concept	3

Pr12	**a** - Completion of In-class Assignment no 3, (concept of elements of development) presentation of the results by students and discussion of results **a** - Individual work of students on stage 5 - the scenario of socialized design process for the adopted concept of public space.	3
Pr13	**a** - Individual work by students on the scenario	3
Pr14	**a** - Presentation of the working version of the socialized public space project and discussion (with special focus on project graphics standards). **b** - Individual work of students on the project	3
Pr15	**a** - Presentation made by students and submission of the finished project and discussion **b** – credit	3
	Total hours	**45**

TEACHING TOOLS
N1. Expository lecture as part of the project. N2. Problem-solving lecture (with multimedia presentation or traditional) as part of the project. N3. Interactive project (in justified cases: concluded with notation of conclusions, documenting of the notation and publication on the website of the Department of Environmental Development) N4. Multimedia presentation (by students) as part of the project. N5. Learning about the project area through site visits and meetings with local residents N6. Development of the design concept N7. Preparation of project on paper or in digital form. N8. Project consultations N9. Project presentations N10. In-class assignment as part of the project.

ASSESSMENT OF ACHIEVEMENT OF LEARNING OUTCOMES

Assessment (F – formative (during the semester), S – summative (at the end of semester)	Number of learning outcome	Method of assessing the achievement of learning outcome
F1 – assessment of content quality of stage 1	PEK_W02, PEK_W03	test - $\alpha 1=1$
F2 – assessment of content quality of stage 2	PEK_W01, PEK_W03	Assessment of the content quality of the project - $\alpha_1=0,6$
F3 – assessment of content quality of stage 3	PEK_U01, PEK_K01	Assessment for the presentation of problems covered by the project - $\alpha_2=0,2$
F4 – assessment of content quality of stage 4	PEK_U02, PEK_K02	Assessment of the content quality of the project - $\alpha_1=0,6$
F5 – assessment of content quality of stage 5	PEK_U02, PEK_K02	Assessment for the presentation of

		problems covered by the project - $\alpha_{2=}0,2$
F6 – Assessment of content quality of work	PEK_U02, PEK_K02, PEK_U03	Assessment for graphic design of the project $\alpha_{3=}0,2$
F7 - Final grade for project	PEK_U02, PEK_K02, PEK_U03	Assessment for the presentation of problems covered by the project - $\alpha_{2=}0,2$
P 1= α1 F1 where α1=1, Σ α = 1 P 2= α1 F2 + α2F3 + α3F4, where α1=0,6, α2=02, α3=02, Σ α = 1		

BASIC AND ADDITIONAL LITERATURE

BASIC LITERATURE:

[12] SANOFF H., 2000, Community Participation Methods in Design and Planning, John Willey and Sons, New York, USA

[13] CHAMBERS R., 2002, Participatory Workshops, EarthScan Londyn

[14] GZELL S., 1996, Fenomen małomiejskosci, Wydawnictwo Akapit DTP, Warszawa

[15] PAWŁOWSKA K., 2001, Percepcja krajobrazu i partycypacja społeczna w działaniach na rzecz krajobrazu [w] Pawłowska K. (red.); Architektura krajobrazu a planowanie przestrzenne, Praca zbiorowa; Politechnika Krakowska, Kraków

[16] PUTNAM R.D., 2008, Samotna gra w kręgle. Upadek i odrodzenie wspólnot lokalnych w Stanach Zjednoczonych. Wydawnictwa Akademickie i profesjonalne, Warszawa

[17] BETSKY A., 2008. Architektura poza budynkami, W: Z:A 4/08, Warszawa

[18] BUCZEK G., CHWALIBÓG A., CHWALIBÓG K., GAWLICKI M., GROCHULSKI J., KALISZEWSKI A., KICIŃSKI A., LENART J., ŚMIECHOWSKI D., WOLSKI P., 2008, Polska Polityka Architektoniczna - Polityka jakości krajobrazu, przestrzeni publicznej i architektury, Poznań

[19] DRYLL I., 2007, Diagnoza Społeczna 2007. Warunki i jakość życia Polaków - raport. J. Czapiński, T. Panek (red), Rada Monitoringu Społecznego, Warszawa

[20] WISZNIOWSKI J., 2003, Wpływ partycypacji społecznej na proces projektowania architektonicznego, Praca Doktorska na Wydz.Architektury PWr, Wrocław

[21] Jak przetworzyć Miejsce. Podręcznik kreowania udanych przestrzeni publicznych. Project for Public Spaces, Fundacja Partnerstwo dla Środowiska, Kraków 2008

[22] World class places. The Government's strategy for improving quality of place. Communities and Local Government, London, Crown 2009

ADDITIONAL LITERATURE:

[27] - relevant bills, legal acts and websites

COURSE ADVISOR (NAME, SURNAME, E-MAIL)

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EQUIVALENCY MATRIX OF LEARNING OUTCOMES FOR COURSE
DESIGN STUDY: PROJECTS INVOLVING LOCAL COMMUNITIES
WITH THE LEARNING OUTCOMES FOR ARCHITECTURE AND URBAN PLANNING MAJOR

Course learning outcome	Relation of course outcome with learning outcomes formulated for the major and specialization (if applicable)**	Course objectives***	Curriculum content***	No. of teaching tool***
PEK_W01 (knowledge)	K1AIU_W01, K1AIU_W07, K1AIU_W09,	C1	W1-W9	N1
PEK_W02	K1AIU_W01, K1AIU_W15,	C2	W8-W14	N2
PEK_W03	K1AIU_W01, K1AIU_W21, K1AIU_W23, K1AIU_W26,	C3, C4	W1-W14	N3
PEK_U01 (skills)	K1AIU_U08,K1AIU_U17, K1AIU_U19,	C2, C3	W5, W7, W8	N4, N5
PEK_U02	K1AIU_U08, K1AIU_U18, K1AIU_U19,	C1	W12	N6, N7, N10
PEK_U03	K1AIU_U08, K1AIU_U18, K1AIU_U19,	C1	W12, W13	N6, N7, N10
PEK_K01 (competencies)	K1AIU_K02	C2	W12, W13	N5, N8
PEK_K02	K1AIU_K06, K1AIU_K08	C3	W14	N5, N7, N8

** - enter symbols for learning outcomes related to the academic concentration/specialization
*** - from the table above

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FACULTY OF ARCHITECTURE

COURSE SYLLABUS

DESIGN STUDY: DESIGNING OUTDOOR SPORTS AND RECREATIONAL FACILITIES

Course title in English DESIGN STUDIO: DESIGNING OUTDOOR SPORTS AND RECREATION FACILITIES
Academic major: ARCHITECTURE AND URBAN PLANNING
Course level and study mode: second cycle, full-time/part-time
Course type: elective
Course code: AUA107705wP
Group of courses YES

	Lecture	Tutorial	Lab	Project	Seminar
Number of contact hours	15			45	
Number of student workload hours				120	
Grading policy				pass with grade	
Mark (X) for final course in a group of courses				x	
ECTS points:				4	
including ECTS points for practical hours (P)				3	
including ECTS points for contact hours (CH)				1	

PREREQUISITES RELATING TO KNOWLEDGE, SKILLS AND OTHER COMPETENCIES

1. KNOWLEDGE

Understanding of problems related to (architectural and structural) design of structures. Elementary knowledge of architectural composition.
Elementary knowledge of problems of sustainable design and energy-saving technologies.

2. SKILLS:

Ability to determine the relationship of proposed buildings with the environment.
Ability to use computer-aided design programs.

3. OTHER COMPETENCIES:

Ability to work in a group.
Demonstrate the current knowledge and the latest trends in contemporary architecture.

COURSE OBJECTIVES

C1 – To introduce students to the specific character of designing recreation and sports areas in the city and the metropolitan zone,
C2 – To introduce students to the current legislation and applicable Polish law and legislation of other countries applicable in this scope,
C3 - To present problems related to the designing of sports surface structures.
C4 – To develop skills in using study materials, analyzing significant features of the natural, cultural and social, environment, and legal and administrative constraints, to prepare studies and analyses, formulate briefs on their basis related to the scope of the functional and usability program.
C5 – To develop skills in creating and presenting land use plans, locating surface sports structures, with account being taken of establishing the ordinate for large game fields; applying greenery,

landscaping features and small cubic structures that serve recreation and sport as the basic elements of contemporary composition of multifunctional recreation and sports areas.
C6 – To prepare students to implement architectural designs of small sport structures such as those built within government programs e.g. complexes of pitchces Moje boisko Orlik 2012, playgrounds Radosna Szkoła, etc..
C7 – To introduce students to contemporary trends in designing recreation areas and facilities

COURSE LEARNING OUTCOMES

Related to knowledge:

PEK_W01 – recognize basic legal regulations pertaining to designing sports and recreation areas and their constituent elements , understand their role on urbanized areas,

PEK_W02 – differentiate between types of sports and recreation activities, characterize them and propose appropriate spatial and functional solution,

PEK_W03 Demonstrate theoretically grounded detailed knowledge of selected issues of theory and principles of designing sports and recreation facilities

Related to skills:

PEK_U01 – analyze the existing condition, both in relation to architectural composition, and to environmental circumstances, design structures and recreation and sports areas in accordance with the principles of sustainable development and in relation to urban surroundings,

PEK_U02 – create briefs and choose diversified composition elements in appropriate proportions – greenery, cubic structures, landscaping features, communication,

PEK_U03 – apply contemporary energy-saving and proecological technologies in briefs.

PEK_U04 – create designs that match the location and are closely related in terms of function and landscape with the surrounding, use existing elements of urban tissue and the natural environment

Related to social competencies:

PEK_K01 – work in a team.

PEK_K02 Demonstrate an awareness and understanding of the consequences of the engineer's work related to architectural design, and its impact on the environment and the related responsibility.

CURRICULUM CONTENT

Mode of teaching - lectures		**Number of hours**
Lec1	Presentation of the scope of the lecture, course completion requirements, literature of the subject. Presentation of the connection between lectures and project. Basic concepts, definitions. Role and place of recreation on urbanized areas.	1
Lec2	Urban standards - their relevance and impact on the formation of recreational areas.	1
Lec3	Types of recreation. Division into corresponding area development. Functional diagrams of areas of recreation and sports facilities.	1
Lec4	Division of recreational areas. Urban context, Landscape aspects.	1
Lec5	Types of open areas serving recreation – principles of design, standards, constituent and accompanying structures.	1
Lec6	Golf courses - the phenomenon of artificially created landscapes. Basic principles of designing gold courses as multifunctional recreation areas.	1

Lec7	Complexes of equipment and multifunctional sports facilities.	1
Lec8	Construction elements of sports structures - synthetic surfacing.	1
Lec9	Construction elements of sports structures - substructures for surface facilities.	1
Lec10	Greenery on sport and recreation areas.	1
Lec11	Color and light. Open sports equipment, indoor spaces.	1
Lec12	Planning recreation areas – international examples – *Recreation plans*. *Standards Manual, Design Guides.*	1
Lec13	The influence of government programs on the designing process, structure and composition of the recreation base. *Moje Boisko Orlik 2012. Radosna Szkoła*. *Blisko Boisko.*	1
Lec14	Designing recreation areas in the context of sustainable management of urban space and areas in metropolitan zones.	1
Lec15	Test.	1
	Total hours	**15**

Mode of teaching - project		**Number of hours**
Pr1	**a** - Introduction do the course topics: presentation of the project trends in planning recreation areas; overview and illustration of the problems of designing that includes recreation areas into the urban tissue; course completion requirements and assessment criteria, list of literature of the subject and educational materials. Presentation of examples of student work. **b –** introduction to study task no 1. Presentations of contemporary examples of recreation areas, with the functional analysis of described developments.	3
Pr2	**a** - Presentation made by students of Study Assignment no 1 and discussion on the presented examples. **b** - Overview of the problems of pre-project studies, methods of analysis, their subject-matter (depending on the project topic), and the methods of creating and applying them in briefs **c** - Individual work of students on Project Assignment - studio part	3
Pr3	**a** - Overview of the problems of pre-project studies, methods of analysis, their subject-matter (depending on the project topic), and the methods of creating and applying them in briefs **a** - Individual work of students on Project Assignment - studio part	3
Pr4	**a –** collection, preparation and processing of study data required in the pre-project stage **b** - Completion of In-class Assignment no 1 (panel with project objectives), presentation of the results by students and discussion of results with special focus on the correctness and scope of performed pre-project analysis **c** - Individual work of students on Project Assignment - idea part, functional and spatial scheme	3
Pr5	**a** - Individual work of students on Project Assignment – functional and spatial scheme, urban composition **b –** Project critiques	3

Pr6	**a** - Presentation made by students of the Project Assignment – urban composition **b –** Project critiques	3
Pr7	**a** - Individual work of students on Project Assignment – urban and architectural composition, land development project **b –** Project critiques	3
Pr8	**a** - Individual work of students on Project Assignment – land development project, outdoor sports equipment, service facilities for designed areas **b –** Project critiques	3
Pr9	**a** - Completion of In-class Assignment no 2, (architectural concept of service facilities for designed areas) presentation of the results by students and discussion of results with special focus on the architectural and urban functionality and composition **b –** Project critiques	3
Pr10	**a** - Individual work of students on Project Assignment – outdoor sports equipment, service facilities for designed areas **b –** Project critiques	3
Pr11	**a** - Individual work of students on Project Assignment – service facilities for designed areas, landscaping features **b –** Project critiques	3
Pr12	**a** - Completion of In-class Assignment no 3 (urban detail design), presentation of the results by students and discussion of results with special focus on the functionality of solutions and correctness of structural and material solutions	3
Pr13	**a** - Individual work of students on Project Assignment – supplementing missing parts of the project, architectural detail, creating project descriptions **b –** Project critiques	3
Pr14	**a** - Presentation of the working version of the Project Assignment, discussion with special focus on project graphics standards and form of submission. **a** - Individual work of students on Project Assignment	3
Pr15	**a** - Presentation made by students and submission of the finished Project Assignment and discussion **b –** credit	3
	Total hours	**45**

TEACHING TOOLS
N1. Expository lecture with elements of problem-solving lecture - form: multimedia presentation, classical lecture with blackboard use. N2. Interactive project (lecture in justified cases). N3. Multimedia presentation (by students) as part of the project. N4. Development of the design concept for the working / computer 3D model. N5. Project consultations (skills in communicating through graphics). N6. Presentations of projects (improving methods of presentation) N7. In-class assignment as part of the project.

ASSESSMENT OF ACHIEVEMENT OF LEARNING OUTCOMES

Assessment (F – formative (during the semester), S – summative (at the end of semester)	Number of learning outcome	Method of assessing the achievement of learning outcome
F1		Grade for the content of Study task no 1
F2		Assessment of content quality of in-class assignments no 1, 2, 3
F3		Assessment of the content quality of the project task (analytical part)
F4		Assessment of the content quality of the project task (design part)
F5		attendance at lectures
F6		active participation in discussions, involvement of the student
F7		Test.
P1 - Final grade for project P1 = 0.5 x F4 + 0.3 x F3 + 0.2 x [(F1 + F2) : 2] Final grade for course may be increased or reduced by ½ depending on other factors (diligence, attendance, attitude to work, ability to work in a team) P2 - Final grade for lecture P2=0.3 x F5 + 0.2 x F6 + 0.5 x F7		

BASIC AND ADDITIONAL LITERATURE

BASIC LITERATURE:

[1] Wirszyłło R.: *Budownictwo urządzeń sportowych*. Warszawa 1961
[2] Bohdanowicz J, Wyrzykowski J.: *Urządzenia rekreacyjne*. Warszawa 1979
[3] Jarosiński S.: *Terenowe urządzenia rekreacyjne dla dzieci.* Warszawa 1986
[4] Kiełbasiewicz-Drozdowska I., Siwiński W.: *Teoria i metodyka rekreacji*. Poznań 2001
[5] Mokrzyński J.: *Architektura wolnego czasu*. Warszawa 1980

ADDITIONAL LITERATURE:

[1] Bell S.: *Design for Outdoor Recreation*. Kindle Edition 2007
[2] Drapella Hermansdorfer A. (red.): *Kształtowanie krajobrazu: idee, strategie, realizacje.* Część I-III. Wrocław 2005-7
[3] Stahle J. (red.): *Parks and Recreation Area Design Standards manual*. Suhuarita 2005
[4] Magazyn *Architektura i sport* i jego strona internetowa www.architekturaisport.pl
[5] Magazyn *Sport plus* i jego strona internetowa www.sportplusonline.pl

COURSE ADVISOR (NAME, SURNAME, E-MAIL)

Maciej Stojak PhD, maciej.stojak@pwr.wroc.pl

EQUIVALENCY MATRIX OF LEARNING OUTCOMES FOR COURSE
DESIGN STUDY: DESIGNING OUTDOOR SPORTS AND RECREATIONAL FACILITIES
WITH THE LEARNING OUTCOMES FOR MAJOR IN **ARCHITECTURE AND URBAN PLANNING**

Course learning outcome	Relation of course outcome with learning outcomes formulated for the major	Course objectives	Curriculum content	No. of teaching tool
PEK_W01	**K2AiU_W02** **K2AiU_W03** **K2AiU_W06**	C1, C2	Pr1, Pr2, Lec1, Lec2	N1, N2, N3
PEK_W02	**K2AiU_W01** **K2AiU_W04**	C1, C3, C4	Pr3, Pr4, Lec3, Lec4, Lec5	N1, N2, N8, N9
PEK_W03	**K2AiU_W04** **K2AiU_W08**	C4, C5	Lec3, Lec4, Lec5	N2, N8, N9
PEK_U01	**K2AiU_U01** **K2AiU_U02** **K2AiU_U07**	C3, C4, C5, C7	Pr5-Pr10, Lec12, Lec14	N1, N2, N8, N9
PEK_U02	**K2AIU_U03** **K2AIU_U04** **K2AiU_U05**	C5, C6	Pr9-Pr13, Lec5, Lec10, Lec11, Lec13	N1, N2, N4, N7, N8, N9
PEK_U03	**K2AiU_U09**	C7	Pr11, Pr12, Lec12, Lec14	N1, N8, N9
PEK_U04	**K2AiU_U06** **K2AIU_U08**	C4, C5, C7	Pr4-Pr9, Lec2, Lec5, Lec12, Lec14	N1, N2, N6, N7, N8, N9
PEK_K01	**K2AIU_K02**	C4, C5, C6	Pr4, Pr9-Pr14	N4, N7, N8, N9
PEK_K02	**K2AIU_K03** **K2AIU_K05**	C6, C7	Lec14	N2, N4, N7, N8, N9

Zał. nr 4 do ZW 33/2012

FACULTY OF ARCHITECTURE

COURSE SYLLABUS

DESIGN STUDY: DESIGNING HOTELS, OFFICES, BANKS AND STOCK MARKETS.

Academic major: Architecture and Urban Planning
Course level and study mode: second cycle, full-time/part-time
Course type: elective
Course code: AUA107701wP
Group of courses YES

	Lecture	Tutorial	Lab	Project	Seminar
Number of contact hours	15			45	
Number of student workload hours				120	
Grading policy				pass with grade	
Mark (X) for final course in a group of courses				X	
ECTS points:				4	
including ECTS points for practical hours (P)				3	
including ECTS points for contact hours (CH)				1	

PREREQUISITES RELATING TO KNOWLEDGE, SKILLS AND OTHER COMPETENCIES

1. KNOWLEDGE Students demonstrate knowledge of designing commercial buildings with a simple structure and form.
2. SKILLS: Students can independently solve simple design tasks. Use CAD computer aided design software and computer graphic programs to create presentations.

COURSE OBJECTIVES

C1 The objective of the course is to acquaint students with architecture of structures with a dominating office and hotel function, as well as banks and stock markets.
C2 The objective of the course is to equip students with skills in designing offices, hotels, banks and stock market buildings with the accompanying functions in a specific urban context by solving a selected project topic.
C3 The objective of the course is to equip students with a creative approach to designing such structures and to searching for innovative solutions.

COURSE LEARNING OUTCOMES

Related to knowledge:

PEK_W01 demonstrate elementary knowledge of commercial architecture with a office, hotel, bank, and stock market function and its typology necessary to design such structures; demonstrate knowledge of technical problems related to their design and construction, including evacuation and fire safety.

Related to skills:

PEK_U01 Design commercial structures with dominating office and hotel function, as well as banks and stock markets; analyze the relationship with the surrounding, accessibility and service facility for the proposed structures, analyze the functional relations and the used construction solutions; demonstrate skills in preparing and formulating architectural documentation for selected structure

Related to social competencies:

PEK_K01 Understand the need and identify the opportunities for continuous learning and improving professional, personal and social competencies

PEK_K02 Demonstrate an awareness and understanding of the importance of non-technical aspects and consequences of the architect's work, including its impact on the environment and the related responsibility for decisions.

PEK_K03 think and operate in a resourceful manner

CURRICULUM CONTENT		
Mode of teaching - lectures		**Number of hours**
Lec1	Hotels, offices, banks – in tall buildings, development architectural technologies and solutions	2
Lec2	Hotels - development of the hotel industry, typology, functional solutions	2
Lec3	Hotels - architecture of hotel buildings	2
Lec4	Office buildings – origins, development and typology	2
Lec5	Office buildings – functional solutions, architecture of office buildings	2
Lec6	Banks – origins, typology, functional solutions, architecture	2
Lec7	Stock market buildings – origins, typology, functional solutions and architecture	2
Lec8	Presentation of original projects, credit.	1
	Total hours	**15**

Mode of teaching - project		**Number of hours**
Pr1	Overview and choice of topics, analysis of constraints	3
Pr2	Functional and spatial concept, land use plan - 1:500 scale	6
Pr3	Presentation I, discussion.	3
Pr4	Architectural concept, including: - views of all floors, elevations - 1:200 scale, selected fragment - 1:100 scale, -characteristic sections and projections - 1:200 scale, chosen section - 1:100 scale	18
Pr5	Presentation 2, overview of projects and discussion	3

Pr6	Architectural detail, project visualizations	9
Pr7	Submission of final project, assessment of the project	3
	Total hours	**45**

TEACHING TOOLS
N1. Expository lecture N2. problem-solving lecture N3. multimedia presentation, N4. Presentation of project. N5. consultation N6. discussion

ASSESSMENT OF ACHIEVEMENT OF LEARNING OUTCOMES

Assessment (F – formative (during the semester), S – summative (at the end of semester)	Number of learning outcome	Method of assessing the achievement of learning outcome
F1	PEK_W01	Test α_1=1
F2	PEK_U01	Assessment of the content quality of the project - $\alpha_{2=}$0,8
F3	PEK_K01 PEK_K02	Class participation assessment (min. 50% critiques, credit for all reviews) $\alpha_{3=}$0,1
F4	PEK_K03	Assessment of oral presentation $\alpha_{4=}$0,1
P 1= α_1 F1 where α_1=1, Σ α = 1 P 1= α_2 F2+ α_3 F3+ α_4F4 where α_2=0,8, α_3=0,1, $\alpha_{4=}$0,1 Σ α = 1		

BASIC AND ADDITIONAL LITERATURE

BASIC LITERATURE:

[1] Błądek Z. *Hotele, Programowanie, projektowanie , wyposażenie,* Wyd. Palladium 2004
[2] Błądek Z., Tulibacki T., *Dzieje krajowego hotelarstwa. Od zajazdu do współczesności. Fakty, obiekty, ludzie.* Wyd. Palladium.
[3] Cool Hotels Europe (praca zbiorowa), Wyd. TE NEUES 2009
[4] Czarnecki J. *Projektowanie obiektów bankowych*, Gliwice 2005.
[5] Judd R., *Modern Office Standards. Polska. Wytyczne do projektowania oraz opracowywania specyfikacji współczesnych obiektów i przestrzeni biurowych*. Wyd. Rolfe Jud Architecture. CBRE.
[6] Karfik V. *Budynki Biurowe*, Wyd. Arkady 1976.
[7] Kretschnar-Joehnk, *1001 hotel rooms*, Wyd. Braun.
[8] Watson H., Hotel Revolution, 2005.
[9] Oparka s., Nowicka T. *Hotelarstwo. Zbiór zadań i testów.Trening przed egzaminem pisemnym i praktycznym* (Hotelarze.pl 2012).
[10] *Rozporządzenie Ministra Infrastruktury z dnia 12 kwietnia 2002 r. w sprawie warunków technicznych, jakim powinny odpowiadać budynki i ich usytuowanie.* (Dz. U. nr 75, poz. 690; z późniejszymi zmianami)
[11] Włodarczyk M. *Giełda Warszawska* (*Warsaw Stock Exchange)*, „A&B", lipiec-sierpień 1997, s. 27-36
[12] *Wytyczne projektowe budynków bankowych*. Instrukcje NBP

[13] Złowodzki M. *Technologiczne i środowiskowe projektowanie biur*, PK Kraków, 1997.
[14] Meyerson J., Ross P., *The XXI Century Office*, 2003.

ADDITIONAL LITERATURE:

[1] Czasopisma architektoniczne, np. *Architektura & Biznes*, *Architektura – murator*.
[2] Cerver F., A., *The World of Contemporary Architecture*.Keneman 2005.
[3] Jodidio P. Architecture Now!, Taschen (najnowsze wydania).
[4] Milewska M., Włodarczyk B., *Hotelarstwo.* 2009.
[5] Neufert E., *Podręcznik projektowania architektoniczno-budowlanego*, Warszawa 2011
[6] Wojtasik L., Tauber R.D., *Turystyka i rekreacja we współczesnym świecie*, 2011.

COURSE ADVISOR (NAME, SURNAME, E-MAIL)

Professor Elżbieta Trocka – Leszczyńska, elzbieta.trocka-leszczynska@pwr.wroc.pl

EQUIVALENCY MATRIX OF LEARNING OUTCOMES FOR COURSE
DESIGN STUDY: DESIGNING HOTELS, OFFICES, BANKS AND STOCK MARKETS.
WITH THE LEARNING OUTCOMES FOR ARCHITECTURE AND URBAN PLANNING MAJOR

Course learning outcome	Relation of course outcome with learning outcomes formulated for the major	Course objectives	Curriculum content	No. of teaching tool
PEK_W01 (knowledge)	**K1AIU_W21**	C1	Lec1-Lec8	N1, N2, N3
PEK_U01 (skills)	**K1AIU_U13**	C2	Pr1-Pr7	N1, N2, N3, N5
PEK_K01 (competencies)	**K1AIU_K01**	C1, C2	Lec1-Lec8	N1, N2, N3
PEK_K02	**K1AIU_K02**	C1, C2	Lec1-Lec8	N1, N2, N3
PEK_K03	**K1AIU_K05**	C1, C2	Pr1-Pr7	N6, N4

FACULTY OF ARCHITECTURE

COURSE SYLLABUS

Course title in Polish
Ergonomic Design of Hygiene and Sanitation Areas and Facilities
Academic major (if applicable):Architecture
Specialization (if applicable): Architecture
Course level and study mode: second cycle, full-time/part-time
Course type: elective
Course code AUA107718wP
Group of courses YES

	Lecture	Tutorial	Lab	Project	Seminar
Number of contact hours	15			45	
Number of student workload hours				120	
Grading policy				pass with grade*	
Mark (X) for final course in a group of courses				x	
ECTS points:				4	
including ECTS points for practical hours (P)				3	
including ECTS points for contact hours (CH)				1	

*delete as applicable

PREREQUISITES RELATING TO KNOWLEDGE, SKILLS AND OTHER COMPETENCIES

1. KNOWLEDGE:

Basic understanding of technical problems related to functional and spatial design of architectural structures.

2. SKILLS:

Ability to apply different techniques and materials in presenting architectural concepts. Knowledge of computer-aided architectural design software and the ability to use them.

COURSE OBJECTIVES

C1 - To introduce students to the basic problems of designing different types of sanitary facilities
C1.1 - Legal issues- regulations, law, norms etc.
Cl .2 - Ergonomics issues
C1.3 - Technical and construction issues
C2 - To develop skills in practical application of knowledge related to the aforementioned problems in the designing process of sanitary facilities

COURSE LEARNING OUTCOMES

Related to knowledge:

PEK_W01:

Demonstrate systematic theoretical general knowledge of designing sanitary facilities in residential and commercial buildings.

PEK_W02:

Demonstrate knowledge of regulations and law pertaining to designing sanitary facilities in residential and commercial buildings.

PEK_W03:

Demonstrate knowledge of ergonomic design of sanitary facilities and zones. Understand the concept of „ergonomic design".

PEK_W04:

Demonstrate knowledge of technical and construction issues related to designing sanitary facilities and zones.

Related to skills:

PEK_U01:

Apply the aforementioned theoretical knowledge in practical solutions to designing problems pertaining to developing sanitary facilities and zones.

PEK_U02:

Create a basic architectural design and interior design of sanitary facilities and zones in residential and commercial buildings, which incorporate functional and spatial solutions as well as solutions pertaining to building technology, structure, building services, equipment and materials.

PEK_U03:

Apply contemporary diversified technical and material media to present an architectural concept. Prepare technical documentation pertaining to the project assignment using computer-aided design software.

Related to social competencies:

PEK_K01:

Understand the broadly understood problems of designing ergonomic sanitary facilities and zones and their influence on the comfort and quality of life of all members of contemporary society.

CURRICULUM CONTENT		
Mode of teaching - lectures		**Number of hours**
Lec 1	Evolution of sanitary zones throughout the centuries	2
Lec2	Development of technology and methods of using sanitary zones	2
Lec 3	Psychosocial aspects of designing sanitary zones	2
Lec 4	Contemporary concept of home bathroom	2

Lec 5	Contemporary the concept of sanitary facilities in commercial buildings	2
Lec 6	Ergonomic criteria of designing sanitary zones	2
Lec7	Possibilities of adapting existing sanitary facilities to contemporary needs of occupants	2
Lec 8	Legal and normative conditions in designing sanitary facilities	1
	Total hours	15

Mode of teaching - project		**Number of hours**
Pr1	Overview of the scope of the project and course completion requirements. List of literature. Assignment and overview of project topics and tasks.	3
Pr2	Analysis of the subject - schemes of relations of the sanitary zone with other functional zones. Consultations.	3
Pr3	Analysis of the subject - functional and spatial schemes, zoning. Consultations.	3
Pr4	Ergonomics analysis. Use of equipment. Spatial and mobility requirements of users. Consultations.	3
Pr5	Ergonomics analysis. Designing space occupied by equipment and the space needed to operate it. Consultations.	3
Pr6	Ergonomics analysis. Adapting sanitary zones for the needs of the disabled. Consultations.	3
Pr7	Ergonomics analysis. Use of sanitary zones by children. Consultations.	3
Pr8	Conceptual design of furnishings - sanitary equipment. Consultations.	3
Pr9	Analysis of the micro climate in sanitary zones. Conceptual design of elements of building services. Consultations.	3
Pr10	Conceptual design of elements of furniture. Consultations.	3
Pr11	Ergonomics analysis. Operational health and safety. Choice of finishing materials. Consultations.	3
Pr12	Conceptual design - choice of materials and colors. Consultations.	3
Pr13	Conceptual design of the whole - projections, characteristic sections. Consultations.	3
Pr14	Conceptual design of the whole - projections, characteristic sections, details. Consultations.	3
Pr15	Presentation and submission of the project. Assessment and credit.	3
	Total hours	45

TEACHING TOOLS
N1.for lectures: expository lecture, multimedia presentation N2.for project: presentation of project, consultation

ASSESSMENT OF ACHIEVEMENT OF LEARNING OUTCOMES

Assessment (F – formative (during the semester), S – summative (at the end of semester)	Number of learning outcome	Method of assessing the achievement of learning outcome
F1	PEK_W01, PEK_W02, PEK_W03, PEK_W04, PEK_KO1	Oral examination – α1 = l
F2	PEK_U01, PEK_U02, PEK_KO1	Assessment of the contents of the project - α l= 0.6
F3	PEK-U03	Assessment for the presentation of problems covered by the project - α 2= 0.2
F4	PEK-U03	Assessment for the graphics of the project - α3= 0,2
P1 = α 1Fl, where α l=l, total α =l P2 = α lF2+ α2F3+ α 3F4, where α l=0.6, α 2=0.2, α 3=0.2 total α =l		

BASIC AND ADDITIONAL LITERATURE

BASIC LITERATURE:

[1] Grandjean E., Ergonomia mieszkania. Aspekty fizjologiczne i psychologiczne w projektowaniu, Arkady, Warszawa 1978

[2] Rozporządzenie Ministra Infrastruktury z dnia 12.04.1992 w sprawie warunków technicznych, jakim powinny odpowiadać budynki i ich usytuowanie (Dz.U nr 75 poz. 690)

[3] Rozporządzenie Ministra Pracy i Polityki Socjalnej z dnia 26 września 1997 r. w sprawie ogólnych przepisów bezpieczeństwa i higieny pracy (Dz. U. Nr 169, poz. 1650)

[4] PN-78/B-01056 Budownictwo mieszkaniowe. Pomieszczenia sanitarne. Układy funkcjonalne i wyposażenie. Nazwy i określenia.

[5] Polska Norma PN-88/B-01058 Budownictwo mieszkaniowe. Pomieszczenia sanitarne w mieszkaniach. Wymagania koordynacyjne elementów wyposażenia i powierzchni funkcjonalnych.

[6] Komfort sanitarny - ogólne zasady projektowania i wyposażania hotelowych węzłów higieniczno-sanitarnych, BIMs PLUS Wrocław

[7] Budny J., Projektowanie dla wszystkich, Stowarzyszenie Przyjaciół Integracji, Warszawa 2004

ADDITIONAL LITERATURE:

[1] Bonneville (de Bonneville) F., The Book of the Bath, Rizzoli International Publication Inc., New York 1998
[2] Bemdt - Kostyrzewska J., Szymańska M., Programowanie przestrzeni mieszkalnej gospodarstwa domowego, Wydawnictwo SGGW, Warszawa 1992, s. 104-113
[3] Meyer-Boke W., Budownictwo dla osób starszych i niepełnosprawnych, Arkady, Warszawa 1996

COURSE ADVISOR (NAME, SURNAME, E-MAIL)

Anna Jaglarz, PhD anna.jaglarz@pwr.wroc.pl

EQUIVALENCY MATRIX OF LEARNING OUTCOMES FOR COURSE
Ergonomic Design of Hygiene and Sanitation Areas and Facilities
WITH THE LEARNING OUTCOMES FOR ARCHITECTURE MAJOR
AND CONCENTRATION IN ARCHITECTURE

Course learning outcome	Relation of course outcome with learning outcomes formulated for the major and concentration	Course objectives	Curriculum content	No. of teaching tool
PEK_W01	K2AiU_W01, K2AiU_W02, K2AiU_W03,K2AiU_W04, K2AiU_W08, K2AiU_W09 S2AR_W03, S2AR_W04, S2AR_W08	Cl (Cl.l, C1.2, C1.3) C2	Lecl - Lec8	N1
PEK_W02	K2AiU_W01, K2AiU_W04, K2AiU_W09, S2AR_W04	Cl (Cl.l) C2	Lec 8	N1
PEK_W03	K2AiU_W01, K2AiU_W03, K2AiU_W04, S2AR_W04	Cl (C1.2) C2	Lec2, Lec3, Lec4, Lec5, Lec6, Lec7	N1
PEK_W04	K2AiU_W01, K2AiU_W02, K2AiU_W03, K2AiU_W04, K2AiU_W08,S2AR_W02, S2AR_W04, S2AR_W05, S2AR_W08	Cl (C1.3) C2	Lec2, Lec4, Lec5, Lec7	N1
PEK_U01	K2AiU_U03, K2AiU_U09, K2AiU_U10, S2AR_U03, S2AR_U07	Cl (Cl.l, Cl.2, C1.3), C2	Lecl - Lec8, Pr2 - Pr 14	NI, N2
PEK_U02	K2AiU_U04,K2AiU_U05, K2AiU_U11, S2AR_U04, S2AR_ U07	Cl (Cl.l, C1.2, C1.3), C2	Lec2, Lec3, Lec4, Lec5, Lec6, Lec7, Lec8 Pr2 - Prl4	NI, N2
PEK_U03	K2AiU_U01, K2AiU_U02, K2AiU_U05 S2AR_U03, S2AR_U04	Cl (Cl.l, C1.2, Cl.3), C2	Pr2 - Prl4	NI, N5
PEK_K03	K2AiU_K03, K2AiU_K04, K2AiU_K05 S2AR_KO1, S2AR_KO2	Cl (Cl.l, Cl.2, Cl.3), C2	Lec3, Lec4, Lec5, Lec6 Pr2 - Prl4	NI, N5

** - enter symbols for learning outcomes related to the academic concentration/specialization
*** - from the table above

FACULTY OF ARCHITECTURE

COURSE SYLLABUS

Course title in Polish
Design Study: Housing and services for the elderly and the disabled
Course title in English
Desing studio: Housing and services for elder and disabled
Academic major (if applicable): Architecture and Urban Planning
Specialization (if applicable): …….. Architecture
Course level and study mode: second cycle, full-time/part-time
Course type: elective
Kod przedmiotu AUA107714wP
Group of courses YES

	Lecture	Tutorial	Lab	Project	Seminar
Number of contact hours	15			45	
Number of student workload hours				120	
Grading policy				pass with grade*	
Mark (X) for final course in a group of courses				x	
ECTS points:				4	
including ECTS points for practical hours (P)				3	
including ECTS points for contact hours (CH)				1	

*delete as applicable

PREREQUISITES RELATING TO KNOWLEDGE, SKILLS AND OTHER COMPETENCIES
None

COURSE OBJECTIVES

C1- To introduce students to the types and degrees of disability that require the adjustment of the apartment layout and furnishings and services as well as land development.
C2 – To present criteria for diversification of form and function of homes, which result from the degree of ability of these people, pertaining to: types of homes, which they occupy, method of running them; types of residential units; the degree of their concentration; the purpose of the structure for specific ability groups, functions of the structure.
C3- To present information about world trends pertaining to designing apartments and services for the elderly and people with disabilities, about systems of distributing them in the city, about forms of property of investment resources and methods of their management.
C4 – To acquaint students with the location requirements for homes and services for this group of people in buildings, housing developments, city, removing spatial barriers.
C5 – To introduce students to the current legislation and Polish law in this scope.

COURSE LEARNING OUTCOMES

Related to knowledge:

PEK_W01

demonstrate elementary knowledge of the architecture of housing and services for older people and people with disabilities and their typology necessary for the design of such structures

Related to skills:

PEK_U01

design dwelling and structures related to rendering of services for the elderly and people with disabilities with particular focus on their specific needs;

perform analysis of the relationship with the environment, accessibility and servicing of the proposed structure (service)

PEK_U02

Design a building in accordance with the requirements of localization

Related to social competencies:

PEK_K01

Understand the need and identify the opportunities for continuous learning and improving professional, personal and social competencies

PEK_K02

Demonstrate awareness and understanding of the importance of non-technical aspects and consequences of the engineer's work, including its influence on the influence of surrounding environment and the associated responsibility for decisions

PEK_K03 Think and operate in a resourceful manner

CURRICULUM CONTENT		
Mode of teaching - lectures		**Number of hours**
Lec1	Presentation of the scope of the lecture and its connection with the project, course completion requirements, and literature of the subject. Demographic data for a group of elderly and disabled people, housing preferences, required services.	1
Lec2	Field trip to a retirement home	1
Lec3	Criteria for diversification of residential forms of the elderly and disabled.	1
Lec4	Types of residential development adapted to the degree of disability	1
Lec5	Factors that determine the methods of creating the development form. Program of home furnishings.	1
WY6	Legal regulations	1
Lec7	Global trends in the design of housing and services for the elderly and disabled	1
Lec8	Location requirements and principles of for locating homes and services for this group of people in buildings, housing developments, and city.	1
Lec9	Different systems of housing and services in the city.	1
Lec10	Reconstruction and adaptation of inner-city housing complexes for the needs of this group of people.	1
Lec11	Dispatch and information center and other service centers.	1
Lec12	Functional and spatial layout of tourist, therapeutic and geriatric center using the example of Selinunte on Sicily.	1

Lec13	Spatial barriers in the city. Reconstruction and adaptation of inner-city housing complexes for the needs of this group of people.	1
Lec14	Form of ownership of investment funds and methods of managing of these apartments and services in different countries.	1
Lec15	Final test	1
	Total hours	15

Mode of teaching - project		**Number of hours**
Pr1	Introduction to the course: course completion requirements and assessment criteria; project topics and their assignment; scope and scale of design study; presentation of examples of student work; overview of proposed locations for structures; information about filed trip to a retirement home during the next meeting. Introduction do study task no1 (during three meetings): presentation of contemporary examples of residential and commercial structures for the elderly and people with disabilities with the analysis of location, function and form of such structures	3
Pr2	Field trip to a retirement home, learning about the experience of the management and residents of the facility	3
Pr3	Presentation made by students of Study Assignment no 1 and discussion on the presented examples. Overview of the problems of pre-project studies, methods of analysis, their subject-matter and the methods of creating project guidelines. Individual work of students on the project - study part.	3
Pr4	Overview pre-project studies and analysis. Individual work of students on the project - project guidelines, functional program of the structure. Project critiques	3
Pr5	Overview of design guidelines and functional program for the project. Individual work of students on the project - functional scheme and the initial concept of the proposed facility. Project critiques.	3
Pr6	Individual work of students on the project - situation, projection of basement, underground, 1st floor, views, axonometric drawings. Project critiques.	3
Pr7	Individual work of students on the project - as above with views, axonometric drawings. Project critiques.	3
Pr8	Individual work of students on the project - as above Project critiques.	
Pr9	Presentation made by students of the project – inventory of land plot, analysis, design guidelines, situation, functional diagrams, preliminary briefs of the building. Project critiques.	3

Pr10	Individual work of students on the project – projections of selected apartment/rooms/halls (depending on the studies topic), building elevations and sections, visualization, development of land parcels. Project critiques.	3
Pr11	Individual work of students on the project - as above Project critiques.	3
Pr12	Individual work of students on the project - as above Project critiques.	3
Pr13	Individual work of students on the project - as above Project critiques.	3
Pr14	Individual work of students on the project - as above Project critiques.	3
Pr15	Presentation made by students and submission of the finished project and discussion.	3
	Total hours	45

TEACHING TOOLS
N1. Expository lecture with elements of problem-solving lecture - form: multimedia presentation, classical lecture with blackboard use. N2. Interactive project. N3. Multimedia presentation (by students) as part of the project. N4. Development of the design concept for the working / computer 3D model. N5. Project consultations (skills in communicating through graphics). N6. Presentations of projects (improving methods of presentation) N7. Educational field trip (trip to structure, interviews with the management and residents to learn the specifics of the structure).

ASSESSMENT OF ACHIEVEMENT OF LEARNING OUTCOMES

Assessment (F – formative (during the semester), S – summative (at the end of semester)	Number of learning outcome	Method of assessing the achievement of learning outcome
F1	PEK_U01 PEK_U02 PEK_K01- PEK_K03	Grade for the content of Study task no 1
F2	PEK_U01 PEK_U02 PEK_K01- PEK_K03	Assessment of the content quality of the project (analytical part)
F3	PEK_U01 PEK_U02 PEK_K01- PEK_K03	Assessment of the content quality of the project (design part)
F4	PEK_W01	Assessment of test (lecture)
P = (F1 + F2 + F3+F4)/4		

BASIC AND ADDITIONAL LITERATURE

BASIC LITERATURE:

[173] Meyer-Bohe W.: Budownictwo dla osób starszych i niepełnosprawnych. Arkady. Warszawa 1998
[174] Kuldschun H. Rossman E.: Budownictwo dla upośledzonych fizycznie. Arkady, Warszawa 1980
[175] ABC mieszkania bez barier. Wyd. DOM DOSTĘPNY. Warszawa 2003.
[176] Jaranowska K.: Osoby niepełnosprawne w środowisku miejskim. Warszawa 1996
[177] Vademecum projektanta- problemy osób niepełnosprawnych. Warszawa 1991

ADDITIONAL LITERATURE:

[119] Jurkowska-Kucharska B.: Klasyfikacja form zamieszkiwania dostosowanych do potrzeb ludzi starszych. Praca doktorska. Politechnika Wrocławska. Wrocław 1976
[120] Jurkowska-Kucharska B.: Systemy mieszkań i usług dla ludzi starszych. w: ARCHITECTUS nr 1-2/1998, s.99-101

COURSE ADVISOR (NAME, SURNAME, E-MAIL)

Barbara Jurkowska-Kucharska PhD, barbara.jurkowska@pwr.wroc.pl

EQUIVALENCY MATRIX OF LEARNING OUTCOMES FOR COURSE **Housing and services for the elderly and the disabled** WITH THE LEARNING OUTCOMES FOR ARCHITECTURE AND URBAN PLANNING MAJOR AND CONCENTRATION IN ARCHITECTURE

Course learning outcome	Relation of course outcome with learning outcomes formulated for the major and specialization (if applicable)**	Course objectives***	Curriculum content***	No. of teaching tool***
PEK_W01 (knowledge)	**S2AR_W03**	C1-C4	Lec1-Lec15	N1, N7
PEK_U01 (skills)	**S2AR_U04**	C1-C4	Pr1-Pr15	N2-N7
PEK_U02 SKILLS:	**S2AR_U04**	C1-C4	Pr1-Pr15	N2-N7
PEK_K01 (competencies)	**S2AR_K01**	C1-C4	Pr1-Pr15	N2-N7
PEK_K01 (competencies)	**S2AR_K01**	C1-C4	Pr1-Pr15	N2-N7
PEK_K01 (competencies)	**S2AR_K01**	C1-C4	Pr1-Pr15	N2-N7

** - enter symbols for learning outcomes related to the academic concentration/specialization
*** - from the table above

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FACULTY OF ARCHITECTURE

COURSE SYLLABUS

DESIGN STUDY: DESIGNING CONCERT HALLS

Academic major: **ARCHITECTURE AND URBAN PLANNING**
Course level and study mode: **second cycle, full-time**
Course type: **elective**
Course code **AUA107704wP**
Group of courses **YES**

	Lecture	Tutorial	Lab	Project	Seminar
Number of contact hours	15			45	
Number of student workload hours				120	
Grading policy				**pass with grade**	
Mark (X) for final course in a group of courses				X	
ECTS points:				4	
including ECTS points for practical hours (P)				3	
including ECTS points for contact hours (CH)				1	

PREREQUISITES RELATING TO KNOWLEDGE, SKILLS AND OTHER COMPETENCIES

1. KNOWLEDGE Students demonstrate knowledge of designing building with a simple structure and form. Have a completed course in preliminary design and architectural design in an undergraduate program. Prepare functional program for structures with a uniform function.
2. SKILLS: Students use computer aided design software and computer graphic programs to create presentations.

COURSE OBJECTIVES

C1 The objective of the course is to acquaint students with architecture of structures with a dominating auditorium function.
C2 The objective of the course is to equip students with skills in designing auditoriums with a hall and the accompanying functions by solving a selected project topic.
C3 The objective is to equip students with a creative approach to designing such structures and to searching for innovative solutions.

COURSE LEARNING OUTCOMES

Related to knowledge:

PEK_W01 demonstrate elementary knowledge of commercial architecture with a dominating auditorium function and its typology necessary to design such structures; demonstrate knowledge of technical problems related to their design and construction, including evacuation and fire safety.

Related to skills:

PEK_U01 Design commercial structures with dominating auditorium function; analyze the relationship with the surrounding, accessibility and service facility for the proposed structures, analyze the functional relations and the used construction solutions; demonstrate skills in preparing and formulating architectural documentation for selected structure

Related to social competencies:

PEK_K01 Understand the need and identify the opportunities for continuous learning and improving professional, personal and social competencies

PEK_K02 Demonstrate an awareness and understanding of the importance of non-technical aspects and consequences of the engineer's work, including its impact on the environment and the related responsibility for decisions.

PEK_K03 think and operate in a resourceful manner

CURRICULUM CONTENT		
Mode of teaching - lectures		**Number of hours**
Lec1	Auditorium in the structure of commercial building, functional relationships	2
Lec2	History of auditoria - ancient theater	2
Lec3	Structural development of Auditorium in historical periods (Renaissance, Baroque, etc.)	2
Lec4	Typology of contemporary autidorium	2
Lec5	Developing modern auditorium in terms of ergonomic considerations and the requirements of the construction law	2
Lec6	Problems of the stage - visibility diagrams and acoustics	2
Lec7	Review and analysis of selected examples of auditoria.	2
Lec8	Discussion of original projects, credit	1
	Total hours	**15**

Mode of teaching - project		**Number of hours**
Pr1	Overview and choice of topics, analysis of constraints	3
Pr2	Functional and spatial concept, land use plan - 1:500 scale	6
Pr3	Presentation I, discussion.	3
Pr4	Architectural concept, including: - views of all floors - 1:200 scale, selected fragment: hall projection – 1:100 scale, -characteristic sections and projections - 1:200, section of hall with visibility chart - 1:100 scale	18
Pr5	Presentation 2, overview of projects	3

Pr6	Architectural detail, project visualizations	9
Pr7	Submission of final project, assessment of the project	3
	Total hours	**45**

TEACHING TOOLS
N1. Expository lecture N2. problem-solving lecture N3. multimedia presentation, N4. Presentation of project. N5. consultation N6. discussion

ASSESSMENT OF ACHIEVEMENT OF LEARNING OUTCOMES

Assessment (F – formative (during the semester), S – summative (at the end of semester)	Number of learning outcome	Method of assessing the achievement of learning outcome
F1	PEK_W01	Test α_1=1
F2	PEK_U01	Assessment of the content quality of the project - $\alpha_{2=}$0,8
F3	PEK_K01 PEK_K02	Class participation assessment (min. 50% critiques, credit for all reviews) $\alpha_{3=}$0,1
F4	PEK_K03	Assessment of oral presentation $\alpha_{4=}$0,1
P 1= α_1 F1 where α_1=1, Σ α = 1 P 1= α_2 F2+ α_3 F3+ α_4F4 where α_2=0,8, α_3=0,1, $\alpha_{4=}$0,1 Σ α = 1		

BASIC AND ADDITIONAL LITERATURE

BASIC LITERATURE:

[1] Rozporządzenie Ministra Infrastruktury z dnia 12 kwietnia 2002 r. w sprawie warunków technicznych, jakim powinny odpowiadać budynki i ich usytuowanie. (Dz. U. nr 75, poz. 690; z późniejszymi zmianami)
[2] Beranek L. L., *Concert halls and opera houses: music, acoustics and architecture*, 2004
[3] Braun K., *Przestrzeń teatralna,* Wrocław 1982
[4] Frydecki A., *Projektowanie budynków widowiskowych dla teatru, muzyki i filmu,* Wrocław 1976
[5] Grudziński A., *Audytoria dydaktyczne*, Wrocław 1979
[6] Hammond M., *Performing architecture: opera houses, theatres and concert halls for the twenty-first century*, 2006
[7] Heathcote E., *Cinema builders*, 2001
[8] Izenour G.C., *Theater design,* 1996
[9] Neufert E., *Podręcznik projektowania architektoniczno-budowlanego*, Warszawa 2011
[10] Wirszyłło R., *Urządzenia sportowe*, Warszawa 1966

ADDITIONAL LITERATURE:

[1] czasopisma architektoniczne krajowe i zagraniczne, np. *Architektura & Biznes*, *Architektura – murator*.

COURSE ADVISOR (NAME, SURNAME, E-MAIL)

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EQUIVALENCY MATRIX OF LEARNING OUTCOMES FOR COURSE
DESIGN STUDY: DESIGNING CONCERT HALLS
WITH THE LEARNING OUTCOMES FOR ARCHITECTURE AND URBAN PLANNING MAJOR
AND CONCENTRATION IN ARCHITECTURE

Course learning outcome	Relation of course outcome with learning outcomes formulated for the major	Course objectives	Curriculum content	No. of teaching tool
PEK_W01 (knowledge)	**K1AIU_W21**	C1	Lec1-Lec15	N1, N2, N3
PEK_U01 (skills)	**K1AIU_U13**	C2	Pr1-Pr7	N1, N2, N3, N5
PEK_K01 (competencies)	**K1AIU_K01**	C1, C2	Lec1-Lec8	N1, N2, N3
PEK_K02	**K1AIU_K02**	C1, C2	Lec1-Lec8	N1, N2, N3
PEK_K03	**K1AIU_K05**	C1, C2	Pr1-Pr7	N6, N4

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FACULTY OF ARCHITECTURE

COURSE SYLLABUS

Course title in Polish DESIGN STUDY - DESIGNING PUBLIC SPACE.
Academic major: ARCHITECTURE AND URBAN PLANNING
Course level and study mode: second cycle, full-time/part-time
Course type: elective
Course code: AUA107703wP
Group of courses YES

	Lecture	Tutorial	Lab	Project	Seminar
Number of contact hours	15			45	
Number of student workload hours				120	
Grading policy				pass with grade	
Mark (X) for final course in a group of courses				x	
ECTS points:				4	
including ECTS points for practical hours (P)				3	
including ECTS points for contact hours (CH)				3	

*delete as applicable

PREREQUISITES RELATING TO KNOWLEDGE, SKILLS AND OTHER COMPETENCIES

31. Basic knowledge of spatial composition
32. Understanding of problems related to designing multifunctional centers and areas

COURSE OBJECTIVES

C1 – To introduce students to the problems of developing public space in cities and in the suburbs
C2 – to introduce students to the need to take into consideration the social and humanitarian values
C3 – To develop skills in using study materials, analyzing significant constraints of the natural, cultural and social, environment, to prepare studies and analyses, formulate briefs on their basis related to the scope of the functional and idea program.
C4 – To develop skills in preparing and formulating land use plans in the context of architectural structures, in relation with these structures and using landscaping features and urban detail.

COURSE LEARNING OUTCOMES

Related to knowledge:

PEK_W01: Demonstrate elementary knowledge of environmental circumstances of functioning of local community in urbanized space, identify trends in developing natural and cultural element of area development; creatively use this knowledge in designing based on environmental circumstances; substantiate the adopted solution; demonstrate skills in formulating design study in accordance with standards of project drawings.

PEK_W02: Demonstrate knowledge of performing pre-project studies and analysis of residential environment; create analytical study based on material studies and individual studies : properly classify important circumstances and environmental values (analyze them in the aspect of functional and spatial layout, the natural environment, cultural and social environment), appropriately evaluate them; clearly edit individual stages of analysis (resource, valorization, conclusions); creatively use conclusion of analysis to formulate briefs

PEK_W03: Analyze and interpret design solutions with regard to achieving the planned objectives of social development and accordance with the principles of sustainable development

Related to skills:

PEK_U01: Collect and apply knowledge of non-technical areas in solving design problems pertaining to public space at an urban and architectural scale.

PEK_U02: Apply contemporary techniques, multimedia and materials in presenting architectural concepts. Prepare project using computer aided design software and programs for multimedia presentations. Use appropriate computer aided design tools to simulate, design and verify elements.

Related to social competencies:

PEK_K01: Demonstrate an awareness and understanding of the importance of social aspects and consequences of designing public space and the associated responsibility for decisions.

PEK_K02: Understand the importance of the design of public space and its impact on quality of life of local communities.

CURRICULUM CONTENT

Mode of teaching - lectures		**Number of hours**
Lec1	Basic concepts. Definitions.	1 h
Lec2	Role of public space.	1 h
Lec3	Public space: possibilities and threats - 1	1 h
Lec4	Public space: possibilities and threats - 2	1 h
Lec5	Principles of creating good public space.	1 h
Lec6	Social circumstances of good public space.	1 h
Lec7	Public space: types, functions.	1 h
Lec8	Elements of public space.	1 h
Lec9	Contemporary trends in the development of public space.	1 h
Lec10	Stages of the process of creating a public space.	1 h
Lec11	Economic aspects of public space.	1 h
Lec12	Social participation in the designing process.	1 h
Lec13	Social participation in the spatial management process.	1 h
Lec14	Examples of good practices.	1 h
Lec15	test	1 h

	Total hours	**15**

Mode of teaching - project		**Number of hours**
Pr1	**a** - Introduction do the course topics: presentation of the objectives, project methods and trends in public space planning; overview and illustration of the problems of designing that takes into consideration the landscape, cultural and social values; course completion requirements and assessment criteria, list of literature of the subject and educational materials **b** - Introduction to Stage 1 - preliminary work and preparation of required materials and analysis	3
Pr2	**a** - Presentation made by students of the collected materials and photographs **b** - Overview of the problems of pre-project studies, methods of analysis, and the methods of creating and applying them in briefs	3
Pr3	**a** - Completion of In-class Assignment no 1, presentation of the results by students and discussion of results with special focus on the understanding of pre-project analysis method **b** - Individual work of students on conclusions of analysis	3
Pr4	**a** - Individual work of students on the analytical part (problem areas, problem tree, social structure of needs) **b** - Documenting the results of work and discussion.	
Pr5	**a** - Presentation made by students of the results of their work and discussion **b** - Introduction to stage 2 - work on the functional and spatial layout.	3
Pr6	**a** - Presentation made by students of the functional and spatial schemes and discussion **b** - Overview of the problems related to the function of public space	3
Pr7	**a** - Individual work by students on the functional and spatial scheme **b** - Overview of contemporary trends in developing public spaces.	3
Pr8	**a** - Completion of In-class Assignment no 2, presentation of the results by students and discussion of results **a** - Individual work of students on stage 3 - the concept	3
Pr9	**a** - Presentation made by students of the concept and discussion **b** - Individual work of students on the concept	3
Pr10	**a** - Individual work by students on stage 4 – public space development project **b** - Overview of contemporary trends in developing urban detail.	3
Pr11	**a** - Presentation of the working version of the land-use plan and discussion (with special focus on the appropriateness of chosen solutions). **b** - Individual work of students on the land development plan	3
Pr12	**a** - Completion of In-class Assignment no 3 (urban detail design), presentation of the results by students and discussion of results **a** - Individual work of students on stage 5 - detail design	3
Pr13	**a** - Individual work by students on the project	3

Pr14	**a** - Presentation of the working version of the public space project and discussion (with special focus on project graphics standards). **b** - Individual work of students on the project	3
Pr15	**a** - Presentation made by students and submission of the finished project and discussion **b** – credit	3
	Total hours	**45**

TEACHING TOOLS
N1. Expository lecture as part of the project. N2. Problem-solving lecture (with multimedia presentation or traditional) as part of the project. N3. Interactive project (in justified cases: concluded with notation of conclusions, documenting of the notation and publication on the website of the Department of Environmental Development) N4. Multimedia presentation (by students) as part of the project. N5. Learning about the project area through site visits and meetings with local residents N6. Development of the design concept N7. Preparation of project on paper or in digital form. N8. Project consultations N9. Project presentations N10. In-class assignment as part of the project.

ASSESSMENT OF ACHIEVEMENT OF LEARNING OUTCOMES

Assessment (F – formative (during the semester), S – summative (at the end of semester)	Number of learning outcome	Method of assessing the achievement of learning outcome
F1 – assessment of content quality of stage 1	PEK_W02, PEK_W03	test - $\alpha 1=1$
F2 – assessment of content quality of stage 2	PEK_W01, PEK_W03	Assessment of the content quality of the project - $\alpha_{1=}0,6$
F3 – assessment of content quality of stage 3	PEK_U01, PEK_K01	Assessment for the presentation of problems covered by the project - $\alpha_{2=}0,2$
F4 – assessment of content quality of stage 4	PEK_U02, PEK_K02	Assessment of the content quality of the project - $\alpha_{1=}0,6$
F5 – assessment of content quality of stage 5	PEK_U02, PEK_K02	Assessment for the presentation of problems covered by the project - $\alpha_{2=}0,2$
F6 – Assessment of content quality of work	PEK_U02, PEK_K02	Assessment for graphic design of the project $\alpha_{3=}0,2$
F7 - Final grade for project	PEK_U02, PEK_K02	Assessment for the presentation of problems covered by the project - $\alpha_{2=}0,2$

P 1= α1 F1 where α1=1, Σ α = 1
P 2= α1 F2 + α2F3 + α3F4, where α1=0,6, α2=02, α3=02, Σ α = 1

BASIC AND ADDITIONAL LITERATURE

BASIC LITERATURE:

[23] SANOFF H., 2000, Community Participation Methods in Design and Planning, John Willey and Sons, New York, USA
[24] CHAMBERS R., 2002, Participatory Workshops, EarthScan Londyn
[25] GZELL S., 1996, Fenomen małomiejskosci, Wydawnictwo Akapit DTP, Warszawa
[26] PAWŁOWSKA K., 2001, Percepcja krajobrazu i partycypacja społeczna w działaniach na rzecz krajobrazu [w] Pawłowska K. (red.); Architektura krajobrazu a planowanie przestrzenne, Praca zbiorowa; Politechnika Krakowska, Kraków
[27] PUTNAM R.D., 2008, Samotna gra w kręgle. Upadek i odrodzenie wspólnot lokalnych w Stanach Zjednoczonych. Wydawnictwa Akademickie i profesjonalne, Warszawa
[28] BETSKY A., 2008. Architektura poza budynkami, W: Z:A 4/08, Warszawa
[29] BUCZEK G., CHWALIBÓG A., CHWALIBÓG K., GAWLICKI M., GROCHULSKI J., KALISZEWSKI A., KICIŃSKI A., LENART J., ŚMIECHOWSKI D., WOLSKI P., 2008, Polska Polityka Architektoniczna - Polityka jakości krajobrazu, przestrzeni publicznej i architektury, Poznań
[30] DRYLL I., 2007, Diagnoza Społeczna 2007. Warunki i jakość życia Polaków - raport. J. Czapiński, T. Panek (red), Rada Monitoringu Społecznego, Warszawa
[31] WISZNIOWSKI J., 2003, Wpływ partycypacji społecznej na proces projektowania architektonicznego, Praca Doktorska na Wydz.Architektury PWr, Wrocław
[32] Jak przetworzyć Miejsce. Podręcznik kreowania udanych przestrzeni publicznych. Project for Public Spaces, Fundacja Partnerstwo dla Środowiska, Kraków 2008
[33] World class places. The Government's strategy for improving quality of place. Communities and Local Government, London, Crown 2009

ADDITIONAL LITERATURE:

[28] - relevant bills, legal acts and websites

COURSE ADVISOR (NAME, SURNAME, E-MAIL)

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EQUIVALENCY MATRIX OF LEARNING OUTCOMES FOR COURSE
DESIGN STUDY - DESIGNING PUBLIC SPACE.
WITH THE LEARNING OUTCOMES FOR ARCHITECTURE AND URBAN PLANNING MAJOR

Course learning outcome	Relation of course outcome with learning outcomes formulated for the major and specialization (if applicable)**	Course objectives***	Curriculum content***	No. of teaching tool***
PEK_W01 (knowledge)	K1AIU_W01, K1AIU_W07, K1AIU_W09,	C1	W1-W9	N1
PEK_W02	K1AIU_W01, K1AIU_W15,	C2	W8-W14	N2
PEK_W03	K1AIU_W01, K1AIU_W21, K1AIU_W23, K1AIU_W26,	C3, C4	W1-W14	N3
PEK_U01 (skills)	K1AIU_U08,K1AIU_U17, K1AIU_U19,	C2, C3	W5, W7, W8	N4, N5
PEK_U02	K1AIU_U08, K1AIU_U18, K1AIU_U19,	C1	W12	N6, N7, N10
PEK_K01 (competencies)	K1AIU_K02	C2	W12, W13	N5, N8
PEK_K02	K1AIU_K06, K1AIU_K08	C3	W14	N5, N7, N8

** - enter symbols for learning outcomes related to the academic concentration/specialization
*** - from the table above

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FACULTY OF ARCHITECTURE

COURSE SYLLABUS
DESIGN STUDY: MONUMENTAL ARCHITECTURE

Academic major: **ARCHITECTURE AND URBAN PLANNING**
Study cycle and study mode: Second cycle, full-time / part-time
Course type: elective
Course code AUA107687wP
Group of courses YES

	Lecture	Tutorial	Lab	Project	Seminar
Number of contact hours	15			45	
Number of student workload hours				120	
Grading policy				pass with grade	
Mark (X) for final course in a group of courses				X	
ECTS points:				4	
including ECTS points for practical hours (P)				3	
including ECTS points for contact hours (CH)				1	

PREREQUISITES RELATING TO KNOWLEDGE, SKILLS AND OTHER COMPETENCIES

33. Completion of all previous design courses

COURSE OBJECTIVES

C1 To introduce students to the problems of monumental architecture and equip them with tools which help to perceive monumental architecture and architecture as not only aesthetic and formal phenomena, but also as a social phenomena in a broad cultural context.
C2 To equip students with skills in identifying the relationship between spatial and social actions, an thus - the necessity to integrate knowledge of theory of architecture with cultural science, by means of self-education.

COURSE LEARNING OUTCOMES

Related to knowledge:
PEK_W01 Identify the role and problems of monumental architecture and its different aspects in relation to objects, buildings and urban space at a variety of scales.
PEK_W02 Demonstrate basic knowledge needed to understand the social circumstances of architectural work.
Related to skills:
PEK_U01 Perceive, analyze and interpret architecture as a phenomenon which is not only aesthetic and formal but also a social one, considered in a broad cultural perspective.
PEK_U02 Integrate knowledge of theory of architecture to build and develop design requirements in architecture.
PEK_U03 Identify further educational paths and carry out the process of self-learning.
Related to social competencies:
PEK_K01 Demonstrate awareness of the social relations and constraints of architecture and the consequences resulting from the cultural and historical context.
PEK_K02 Demonstrate an awareness and understanding of the importance of non-technical aspects and consequences of the architect's work and the responsibility for decisions.
PEK_K03 Understand the need for self-education.

CURRICULUM CONTENT

Mode of teaching - lectures		Number hours
Lec 1	Introduction to monumental architecture. Architects' views on monumentalism in architecture. Description of the adopted cognitive approach. Monumental architecture as a continuous phenomena. Three concepts of space by Siegfrid Giedion.	1
Lec2	Sensory „ideas" of space developed by archaic communities upper Paleolithic traveling space, archetypes of shapes, The Neolithic Era – model of symbolic space (toporov's universal sign complex – the abstract of the Tree of Heaven) - source of mutual homology of the time, spatial and social order of time-space of social mythopoetic communities. Ritual and myth. Radial space and its essence, basic binary oppositions encoded by the model: interior / exterior, top / bottom, center / edge. Introduction to the structural method; the idea of mythopoetic mind by Levi-Strauss. Opposites: nature / culture, metaphor / metonymy, harmony / melody, symbol / sign.	2
Lec 3	Model of symbolic space; Boundary as an invariant of monumental architecture; the sacred and the profane and their morphology. Monumentalization of boundaries. *Spatial aspect of sacrum*, its essence and sources in the context of the adopted method; the static concept of Eliade and dynamic concept of Czarnowski. Mobile and immobile manifestations of verticalism. Fetishes, totems, flags, lithic hierophanies, obelisks, Stonehenge, cosmic mountains: royal pyramids, Borobodur temple, statues of ancient Egypt, tholos tomb.	2
Lec 4	The ritual – ritualistic space complex and its examples. Meeting tent, Temple of Khonsu, Theban temple complex, structure of the Roman city. *Territorial religious unit of Czarnowski.*	2
Lec 5	Code, codification, social normativism. Topography of monumental architecture. *Monumental architecture of the center, the boundaries and zero-degree monumental architecture.* Monumentalization. Transgressions and retrogressions. Monumental and monumentalising architecture.	2
Lec 6	The ritual – ritualistic space complex - continued. Hadrian's pantheon. Summary - morphology of boundaries in space.	2
Lec 8	The idea of circulation – Harvey, Smith and its representation in the city structure of the Enlightenment period. L'Enfant's and Ellicot's plans of the city of Washington. *Architecture parlante*. Boullée's monumentalization of empty space. Cenotaph for Sir Isaac Newton Uprooted rituals of revolutionary France. Transformations of European tradition - historism and avant-garde as reflections of transgression and retrogression. Historism versus monumentalising architecture H. R. Hitchock – *New Tradition* – architecture of authority. Modern movement and New Tradition movement as emblems of transgression and retrogression.	2
Lec 8	Symbolic ritualistic space of the uprooted ritual of totalitarian countries. Examples: commemoration of the 1st anniversary of the October Revolution by Altman, Speer's Cathedral of Light, Palace of the Soviets public contest - designs by Corbusier and Iofan. Nine points on monumentalism – Giedion, Léger, Sert. Modernity Art of the second avant-garde. Earth art and conceptualism. Architectural avant-garde of the seventies versus monumentalism – Superstudio, Archizoom, OMA. Zero-degree monumental architecture of modernity. Summary.	2
	Total hours	**15**

Mode of teaching - project		Number of hours
Pr1	Introductory meeting - information on the objectives and methods of organizing the project.	3
Pr2	In-class assignments 1 Consultations.	3

Pr3	In-class assignments 2 Consultations.	3
Pr4	In-class assignments 3 Consultations.	3
Pr5	Analysis of proposed locations and problems – preliminary choice of design topics.	3
Pr6	Review 1 - presentation and discussion.	3
Pr7	Clarification of topic, critiques.	3
Pr8	Critiques and consultations.	3
Pr9	Review 2 - presentation and discussion.	3
Pr10	Critiques and consultations - project modifications after review.	3
Pr11	Critiques and consultations.	3
Pr12	Review 3 - presentation and discussion.	3
Pr13	Critiques and consultations - project modifications after review.	3
Pr14	Critiques and consultations.	3
Pr15	Submission of projects – presentation with discussion	3
	Total hours	**45**

TEACHING TOOLS
N1. for lectures: multimedia presentation, problem-solving lecture N2. For project: project presentation, consultations, discussion

ASSESSMENT OF ACHIEVEMENT OF LEARNING OUTCOMES

Assessment (F – formative (during the semester), S – summative (at the end of semester)	Number of learning outcome	Method of assessing the achievement of learning outcome
F1	PEK_W01 PEK_U01 PEK_K01	Project review, discussion Assessment of the quality of the substance, intellectual value, presentation and graphical content
F2	PEK_W01 PEK_W02 PEK_U01 PEK_U02 PEK_K01 PEK_K02	Project review, discussion Assessment of the quality of the substance, intellectual value, presentation and graphical content
F3	PEK_W01 PEK_W02 PEK_U01 PEK_U02 PEK_U03 PEK_K01 PEK_K02 PEK_K03	Project review, discussion Assessment of the quality of the substance, intellectual value, presentation and graphical content
P - Final project assessment - weighted average of grades from three project reviews and the grade for the process of developing the solution for the project assignment.		

BASIC AND ADDITIONAL LITERATURE

BASIC LITERATURE:

[18] S. CZARNOWSKI, *Dzieła,* T. 3, *Podział przestrzeni i jej rozgraniczanie w religii i w magii,* Warszawa 1956.

[19] S. CZARNOWSKI, *Dzieła,* T. 3, *„Góra" i"Dół" w systemie kierunków sakralnych*, Warszawa 1956.

[20] M. ELIADE, *Sacrum, mit, historia*, Warszawa 1993.

[21] J. MAISSONNEUVE, *Rytuały dawne i współczesne*, Gdańsk 1995.

[22] YI-FU-TUAN, *Przestrzeń i miejsce*, Warszawa 1987.

[23] B. SZMIDT, *Ład przestrzeni*, Warszawa 1979.

[24] P. KRAKOWSKI, *Teoretyczne podstawy architektury wieku XIX*, Warszawa, Kraków 1979.

[25] J. KORDYS, Mózg i znaki, Warszawa 1991.

[26] R. SENNET, Ciało i kamień, Gdańsk 1996.

[27] M. CZERWIŃSKI, *Profile kultury*, Warszawa 1980.

[28] M. CZERWIŃSKI, *Przyczynki do antropologii współczesności,* Warszawa 1988.

[29] S. GIEDION, *The Eternal Present, Volume I*: The Beginnings of Art., London 1962,

[30] S. GIEDION, *Architecture and the Phenomena of transition*, Cambridge, Ma., 1971.

[31] *Sacrum i sztuka*, Kraków 1989, (materiały z konferencji).

[32] K. FRAMPTON, *Modern architecture – a critical history*, London 1985.

[33] F. PAWLICKI, *Skarby architektury starożytnego Egiptu, Królewskie świątynie w Deir*

[34] *el-Bahari*, Warszawa 2000.

ADDITIONAL LITERATURE:

[5] M. ELIADE, *Traktat o historii religii,* Warszawa 1993.

[6] M. LEŚNIAKOWSKA, *Co to jest architektura?*, Warszawa 1996.

[7] J. LUDWIŃSKI, *Epoka błękitu*, Kraków 2003.

[8] S. MORAWSKI, *Na zakręcie od sztuki do po – sztuki*, Kraków 1985.

COURSE ADVISOR (NAME, SURNAME, E-MAIL)

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EQUIVALENCY MATRIX OF LEARNING OUTCOMES FOR COURSE
DESIGN STUDY: MONUMENTAL ARCHITECTURE
WITH THE LEARNING OUTCOMES FOR ARCHITECTURE AND URBAN PLANNING MAJOR

Course learning outcome	Relation of course outcome with learning outcomes formulated for the major	Course objectives	Curriculum content	No. of teaching tool
PEK_W01 (knowledge)		C1,	Lec1 – Lec15 Pr1 – Pr15	N1, N2
PEK_W02	**K2AiU_W01**	C1, C2	Lec1 – Lec15 Pr1 – Pr15	N1, N2
PEK_U01 (skills)		C1, C2	Lec1 – Lec15 Pr1 – Pr15	N1, N2
PEK_U02	**K2AIU_U03**	C1, C2	Lec1 – Lec15 Pr1 – Pr15	N1, N2
PEK_U03	**K2AiU_U01**	C2	Lec1 – Lec15 Pr1 – Pr15	N1, N2
PEK_K01 (competencies)		C2	Lec1 – Lec15 Pr1 – Pr15	N1, N2
PEK_K02	**K2AIU_K03**	C1	Lec1 – Lec15 Pr1 – Pr15	N1, N2
PEK_K03	**K2AiU_K01**	C2	Lec1 – Lec15 Pr1 – Pr15	N1, N2

FACULTY OF ARCHITECTURE

COURSE DESCRIPTION

DESIGN STUDY: DESIGNING FOR PEOPLE WITH DISABILITIES

Academic major: **ARCHITECTURE AND URBAN PLANNING**
Study cycle and study mode: Second cycle, full-time / part-time
Course type: elective
Course code: AUA107700wP
Group of courses: YES

	Lecture	Tutorial	Lab	Project	Seminar
Number of contact hours	15			45	
Number of student workload hours				120	
Grading policy				pass with grade	
Mark (X) for final course in a group of courses					
ECTS points:				4	
including ECTS points for practical hours (P)				3	
Including ECTS points for contact hours (CH)				1	

PREREQUISITES RELATING TO KNOWLEDGE, SKILLS AND OTHER COMPETENCIES

1. KNOWLEDGE

Knowledge of technical problems related to programming and designing
and construction of architectural structures: credit for courses in building engineering
and earlier project courses.

2. SKILLS:

Skills in analyzing the needs of occupants (including people with disabilities) and evaluating the mutual relations between small functional units in the interior. Ability to apply different methods of composition, technology and materials in presenting architectural concepts: ability to use freehand drawing techniques and knowledge of computer-aided architectural design software.

3. OTHER COMPETENCIES:

Ability to take into consideration the non-technical aspects of design (especially functional, psychological and aesthetic needs of future occupants in the proposed interiors).

COURSE OBJECTIVES

C1 - To introduce students to the basic problems of designing different types of rooms in terms of specific needs of people with different disabilities.
C2- To acquaint students with the influence of functional requirements on the spatial organization and ergonomic requirements on the functional quality of selected types of rooms.

C3- To develop skills in verifying the degree to which rooms are adapted to serve basic functional and spatial needs of people with lowered psychophysical ability.
C4- To present the possibilities of applying diversified solutions related to materials, finishes, decorations and aesthetics as well as specialist the furnishings for people with disabilities.
C5- To develop skills in applying color solutions in interiors.
C6- To acquaint students with the development prospects in interior design
for the disabled.
C7 - To develop skills in designing and presenting medium-complex architectural concepts

COURSE LEARNING OUTCOMES

1. KNOWLEDGE

PEK_W01: Demonstrate systematic and theoretically grounded general knowledge of programming and designing selected rooms in terms of specific needs of the disabled. Demonstrate rudimentary knowledge of technical problems related to programming, designing and creation of such structures.

PEK_W02: Demonstrate knowledge about the kinds of mental and physical disability people and the resulting specific functional - spatial needs.

PEK_W03: Describe characteristics of contemporary interior design.

PEK_W04: Demonstrate general knowledge of safety and designing standards and of selected types of rooms for the disabled. Recognize basic regulations pertaining to technical requirements technical requirements for buildings and their location in relation to specific needs of the disabled.

PEK-W05: Understand the relationships and dependencies between designing interiors and non-technical aspects that influence the architectural solutions and aspects of society, environment, humanization of space of work and leisure, investment economics, etc.

2. SKILLS:

PEK_U01: Integrate and apply technical and non-technical knowledge in solving a design problem pertaining to an interior, room, elements of finishes and furnishings (especially specialist for the disabled).

PEK_U02: Understand the cultural constraints and the mutual relations between the structure and the social surroundings. Create functional and spatial program of structures in accordance with functional, psychological and aesthetic needs of potential disabled occupants.

PEK_U03: Create a basic conceptual architectural design of interior design, taking into account the functional - spatial solutions and technical solutions pertaining to general construction, finishes and furnishings.

PEK_U04: Demonstrate the ability to apply traditional and electronic technical means in presenting concepts. Prepare documentation for the design task using computer aided design software. Use appropriate computer assisted design tools to simulate the proposed space and verify the correctness of interior elements, among others in adapting them to essential functional and spatial needs of people with reduced psychophysical ability.

3. SOCIAL COMPETENCIES

PEK_K01: Demonstrate awareness of the integrating, preventive and rehabilitative role of architectural space for all users - disabled and still fit.

PEK_K02: Understand the role of non-technical aspects and consequences of interior design, especially the influence on surrounding environment and the associated responsibility for decisions.

PEK_K03: Understand the importance of interior design and its impact on the quality of life of modern society.

CURRICULUM CONTENT

	Mode of teaching - lectures	**Number hours**
Lec1	Organizational meeting, justification of the need to complete the course	1
Lec2	Demographic trends vs. the disabled	1
Lec3	Types of disability.	1
Lec4	Integrated design, for everyone	1
Lec5	Dimensioning of space based on anthropometric data	1
Lec6	The disabled in open, public spaces	1
Lec7	The disabled in open, public spaces, cont	1
Lec8	The disabled in publically accessible spaces in buildings	1
Lec9	Residential rooms for the disabled.	1

Lec10	Furnishings, untypical requirements and solutions	1
Lec11	Kitchens for the disabled.	1
Lec12	Bathrooms for people with disabilities	1
Lec13	Orthopedic equipment assisting movement of the disabled	1
Lec14	Specialist equipment of everyday use	1
Lec15	The disabled vs. the building code in Poland and other countries	1
	Total hours	**15**

Mode of teaching - project		**Number hours**
Pr1	Scope of the project, course completion requirements, literature. Overview of backgrounds and choice of project topics (single rooms). Assignment of design topics to students.	3
Pr2	In-class assignment: functional program, conceptual sketch of the interior, scheme of functional zones, communication layout and interior composition (functional arrangement, mood and decor of the interior). Axonometric drawings or perspective of the whole development. Graphical technique chosen by students.	3
Pr3	Review of the in-class assignment. Analysis of the topics: functional programming, schemes of relations between main functional zones in the project. Consultations.	3
Pr4	Preliminary concept of the functional and spatial solution of interior. Functional diagrams. Black and white graphic. Consultations.	3
Pr5	Functional and spatial concept of interior, specialist equipment, determining the mood and decor, projections, typical cross sections, axonometric and perspective drawings. Black and white graphic. Consultations.	3
Pr6	Review of work, class presentation and discussion.	3
Pr7	Functional and spatial concept of interior, specialist equipment, determining the mood and decor, projections, typical cross sections, axonometric and perspective drawings. Black and white graphic. Consultations.	3
Pr8	Detailed functional and spatial concept of interior, specialist equipment, determining the mood and decor, projections, cross sections, axonometric and perspective drawings. Black and white graphic. Consultations.	3
Pr9	Detailed functional and spatial concept of interior, projections, specialist furnishings, sections, axonometric and perspective drawings. Samples of color and choice of materials. Consultations.	3
Pr10	Review of work, class presentation and discussion.	3
Pr11	Functional and spatial concept of an interior. Ergonomic analysis of a s selected fragment of the project in the relation man – technical product. Samples of color and choice of materials. Consultations.	3
Pr12	Functional and spatial concept of an interior. Ergonomic analysis of movement and maneuvering space of people with varying mobility. Samples of color in selected fragment of the project. Consultations.	3
Pr13	Functional and spatial concept of an interior - axonometric drawings and perspective. Colors of interiors, principles of graphical presentation. Consultations.	3
Pr14	Colors of interiors, detail, principles of graphical presentation and composition of project panels. Consultations.	3
Pr15	Submission of final project, A3 format. Assessment and credit.	3
	Total hours	**45**

TEACHING TOOLS
N1. for lectures: Expository lecture, multimedia presentation, problem-solving lecture N2 for project: project presentations, case study, consultation

ASSESSMENT OF ACHIEVEMENT OF LEARNING OUTCOMES

Assessment (F – formative (during the semester), S – summative (at the end of semester)	Number of learning outcome	Method of assessing the achievement of learning outcome
F1	K2AiU_W01, K2AiU_W02, K2AiU_U01, K2AiU_K01, K2AiU_K03	Written test covering lecture topics - $\alpha_{1=}0,1$
F2	K2AiU_W01, K2AiU_W02, K2AiU_W08, K2AiU_U04, K2AiU_K03	Assessment of the content quality of the project - $\alpha_{1=}0,6$
F3	K2AiU_W01, K2AiU_W02, K2AiU_U01, K2AiU_U04, K2AiU_K03	Assessment for the presentation of problems covered by the project - $\alpha_{2=}0,1$
F4	K2AiU_W01, K2AiU_W04, K2AiU_U04	Assessment for graphic design of the project $\alpha_{3=}0,3$
$P1 = \alpha_1 F1 + \alpha_2 F2 + \alpha_3 F3 + \alpha_4 F4$ gdzie $\alpha_1=0.1$; $\alpha_2=06$; $\alpha_3=01$; a4=02; $\Sigma\alpha = 1$ P1 - Project attendance and final grade for project (weighted average: for projects – 60% , for presentations 10% and graphical appeal 20% and the final written test covering the lectures – 10%).		

BASIC AND ADDITIONAL LITERATURE

BASIC LITERATURE:

[1] **Gedliczka A**., Atlas miar człowieka, CIOP 2001
[2] **Kuldschun H., Rossmann E**., Budownictwo dla upośledzonych fizycznie, Arkady 1980
[3] **Neufert E**., Podręcznik projektowania architektoniczno-budowlanego, Arkady, 1995
[4] **Ramsey Ch**., Architectural Graphic Standards, John Willey & Sons, 1988
[5] **Skaradzińska** ., Dane do projektowania i adaptacji wnętrz mieszkalnych dla osób niepełnosprawnych…, IWP, 1980
[6] zbiorowa, ABC… mieszkania bez barier, Fundacja DOM DOSTĘPNY, 2003

ADDITIONAL LITERATURE:

[1] **Charytonowicz J**., Projektowanie laboratoryjnych stanowisk pracy, Oficyna Wydawnicza Politechniki Wrocławskiej, 1994
[2] **Hugues T**., Die altengerechte Wohnung, Callwey 1975
[3] **Tilley A**., The measure of man and woman, Whitney 2001
[4] zbiorowa, Barrierefrei, Bauen fuer Behinderte und Betagte, A. Koch Verlag, 2003
[5] **Zeugner G**., Barwa i człowiek, Arkady 1965
Czasopisma architektoniczne i wnętrzarskie dostępne w bibliotekach wydziałowych

COURSE INSTRUCTOR (NAME, SURNAME, E-MAIL)

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EQUIVALENCY MATRIX OF LEARNING OUTCOMES FOR COURSE
DESIGN STUDY: DESIGNING FOR PEOPLE WITH DISABILITIES
WITH THE LEARNING OUTCOMES FOR ARCHITECTURE AND URBAN PLANNING MAJOR

Course learning outcome	Relation of course outcome with learning outcomes formulated for the major	Course objectives	Curriculum content	Number of teaching tool
PEK_W01	K2AIU_W01, K2AIU_W02	C1, C2, C3, C6	Lec1 – Lec15	N1
PEK_W02	K2AIU_W01, K2AIU_W02	C2, C3, C4	Lec2 – Lec4	N1
PEK_W03	K2AIU_W01, K2AIU_W02	C1, C2, C3, C4, C5, C6	Lec4, Lec15	N1
PEK_W04	K2AIU_W02, K2AIU_W04	C1, C2, C3, C4, C6, C7	Lec5 – Lec15	N1
PEK_W05	K2AIU_W01, K2AIU_W02, K2AIU_W04	C1, C2, C3, C4, C6	Lec2, Lec4, Lec11 – Lec13, Lec15	N1
PEK_U01	K2AIU_U01, K2AIU_U03	C1, C2, C3, C4	Pr2 – Pr14, Lec1 – Lec15	N1, N5
PEK_U02	K2AIU_U01, K2AIU_U03, K2AIU_U04	C2, C3, C4, C5, C6, C7	Pr2 – Pr14, Lec5 – Lec15	N1, N5
PEK_U03	K2AIU_U01, K2AIU_U03, K2AIU_U04	C1, C2, C3, C4, C5, C6, C7	Pr2 – Pr14	N5
PEK_U04	K2AIU_U01, K2AIU_U04	C1, C4, C5, C7	Pr2 – Pr14	N5
PEK_K01	K2AIU_K02, K2AIU_K03	C1 - C4, C6	Lec1 – Lec4	N1
PEK_K02	K2AIU_K02, K2AIU_K03	C1 - C4, C6	Lec1 – Lec4, Lec14, Lec15	N1
PEK_K03	K2AIU_K04,	C1 - C4, C6	Lec1 – Lec4	N1

FACULTY OF ARCHITECTURE

COURSE SYLLABUS

DESIGN STUDY: PROBLEMS OF CONSERVATION OF ARCHITECTURAL HERITAGE

Course title in English Problems of conservation of architectural heritage - design studies

Academic major: **ARCHITECTURE AND URBAN PLANNING**

Study cycle and study mode: Second cycle, full-time / part-time

Course type: elective

Course code AUA107684wP

Group of courses YES

	Lecture	Tutorial	Lab	Project	Seminar
Total number of contact hours	15			45	
Number of student workload hours				120	
Grading policy				pass with grade	
Mark (X) for final course in a group of courses				X	
ECTS points:				4	
including ECTS points for practical hours (P)				3	
including ECTS points for contact hours (CH)				1	

PREREQUISITES RELATING TO KNOWLEDGE, SKILLS AND OTHER COMPETENCIES

1. KNOWLEDGE:

General knowledge of architectural design in historic centers

General knowledge of concepts and definitions related to aesthetics, styles, history architecture

2. SKILLS:

Skills in collecting materials, preparing and presenting architectural ideas, lanscaping features and sculptures

COURSE OBJECTIVES

C1 - To introduce students to selected concepts and implementations related to the problems of heritage protection, conservation and non-conservation activities

C2 - To acquaint students with selected architectural implementations located in the context of a diversified cultural landscape,

C3 - To present examples of historic structures, to discuss basic heritage protection methods,

C4 - To introduce students to methods of diplaying museum exhibits, etc. directly in Wrocław, in Poland and in the European Union

C5 - To present problems related to the reconstruction, conservation, transfer, restitution, change in function, color and elevation surface, etc. of historic structures

C6 - To equip students with skills in characterizing and defining concepts and problems related to conservation and non-conservation activities

C7 - To prepare students to implement architectural designs of forms, details and other structures in the context of historic centers, historic architectural structures, archaeological and architectural reserves, etc.

C8 - To present basic criterions for designing architecture which is introduced into ensembles of historic centers

C9 - To present basic criterions for designing architecture which is introduced into ensembles of city centers

C10 - To equip students with skills in preparing and presenting designs of architectural detail, forms, landscaping features, greenery, conservation plans for historic buildings, historic interiors, and scientific bibliography

C11 - To interpret the influence of different conservation and non-conservation activities on the cultural landscape, the social interpretation of historic sites, the authenticity of architectural structures, etc.

C12 – To solidify the knowledge on main stylistic trends in local art, relationship between painting, scultpure and architecture, to analyze architectural detail and ornament

COURSE LEARNING OUTCOMES

Related to knowledge:

PEK_W01 demonstrate knowledge of the system of conservation and non-conservation activities (related to the reconstruction, conservation, relocation, restitution, change in function, color and elevation surface, etc. of historic structures) and the roles of conservation guidelines in the development process of a historic structure, ensemble or landscape

PEK_W02 understand the notions of: integration, recomposition, retrowersja, restoration, revitalization, unveiling, conservation, structure relocation, restitution and can provide examples of such in Wrocław, Poland or Europe

PEK_W03 list examples of translation and relocation of historic architectural structures

PEK_W04 recognize stylistic features of tented roofs and other roof ornaments (spirelets, pinnacles, spires) and list examples or original cupolas in contemporary buildings in Wrocław

PEK_W05 demonstrate general knowledge and identify the time period of heritage sites based on architectural detail, paint layer, display methods, and finishing materials of elevations

PEK_W06 identify the methods of presenting architectural-archaeological and archaeological relicts and list examples of architectural-archaeological reserves in Wrocław or Poland

PEK_W07 identify and describe methods of illuminating architectural structures in the past and in contemporary times

PEK_W08 demonstrate knowledge of methods of diplaying museum exhibits, etc. directly in Wrocław, in Poland and in the European Union

PEK_W09 describe basic methods of urban interior design, in particular in the period of Baroque, identify them in field studies and describe the methods of protecting them

Related to skills:

PEK_U01 describe contemporary methods of museum displays based on in situ presentation of exhibits in: Museum of Architecture, National Museum and Historical Museum of the city of Wrocław in the Royal Palace

PEK_U02 examine and describe the advantages and disadvantages of new architecture in a historical context (frontage, allotment, building shape, architectural composition, types of window openings and architectural detail solutions)

PEK_U03 identify methods of depicting sepulchral art presented in situ in a historical context - plate, tombstone, modern tombs and epitaphs

PEK_U04 describe contemporary and historic solutions of green areas in urban interiors, and, based on examples of green areas in four-sided porticos and gardens presented in lectures, describe the methods of displaying sculptures and other landscaping features

PEK_U05 design or propose methods of illuminating architectural structures

PEK_U06 apply principles of writing research papers, construct research paper outlines, apply citations, prepare a reference list

PEK_U07 - prepare architectural designs of forms, details and other structures in the context of historic centers and historic architectural structures, archaeological and architectural reserves, etc.
PEK_U08 prepare and present the results of their design work (drawing or multimedia presentation) in a clear and evocative manner.
PEK_U09 in their designs, apply the basic criterions for designing architecture which is introduced into ensembles of historic centers
PEK_U10 in their designs, apply the basic criterions for designing architecture which is introduced into ensembles of city centers

Related to social competencies:

PEK_K01 understand the role of the conservator in the society and the value of heritage sites
PEK_K02 acknowledge the role of the impact of architectural design on the cultural environment and landscape
PEK_K03 acknowledge the importance of creating and implementing conservation guidelines in historic urban and architectural ensembles
PEK_K04 adhere to the principles of professional ethics and professional conduct
PEK_K05 work in a team and are prepared for interdisciplinary cooperation

CURRICULUM CONTENT

Mode of teaching - lectures		**Number of hours**
Lec1	Scope of the lecture, course completion requirements, literature. Introduction to designing buildings of archaeological-architectural reserves. Entrance to the Cathedral of St. John in Wrocław- overview of conservation activities in chapels, aisle and outside the facility, presentation of the architectural-archaeological reserve in the cathedral crypt. Entrance to the Church of St. Cross, overview of problems related to the reconstruction of Cathedral Island after World War II Introduction to designing green areas in the context of historic urban ensembles	1
Lec2	Continuation of the topic related to designing building and structures in archaeological-architectural reserves - field trip to the Romanesque House and crypt under the church of St. Vincent- presentation of archaeological artifacts. Introduction to the topic related to characteristics of historic interiors- overview of contemporary pieces of religious art Field trip to the four-sided portico in the Ursuline convent- continuation of the topic related to designing green areas Field trip to the Piast Mausoleum in the Ursuline convent- introduction to the topic related to designing contemporary forms of sepulchral art Field trip to the courtyards of the Ossolineum- continuation of the topic related to designing green areas Presentation and overview of the unveilings in the Old Town in Wrocław	1
Lec 3	Introduction to the main University building – overview of problems related to secular historic interiors- the Leopoldinum Hall, Oratorium Marianum- issues related to reconstruction conservation, copying.	1

	Alternatively: Introduction to the Historic Museum of the City of Wrocław- – lecture on the problems related to secular historic interiors, overview of various problems related to museum displays, adaptation, extension of historic architectural structures, continuation of lecture on designing green areas	
Lec 4	Entrance to the Churches of St. Elizabeth and St. Mary Magdalene- overview of issues related to reconstructing or designing contemporary forms of tented roofs and finials, the role of dominant and subdominant in the panorama of the city. Continuation of the topic related to designing religious art and overview of sepulchral art. Overview of problems related to colors in church interiors Overview of forms of architectural detail using examples from the Old Town in Wrocław	1
Lec 5	Introduction to the Archaeological Museum - overview of various problems related to museum displays, adaptation, extension of historic architectural structures, continuation of the lecture on designing green areas in the context of the historic site	1
Lec 6	Field trip to the ensemble of Baroque post-Jesuit buildings in Wrocław. Baroque urban interior, transformations of the urban space in the founded city in the period of Baroque. Rules of composition. Criterions of heritage protection.	1
Lec7	The Old Town in Wrocław. Field trip. Analysis of contemporary architecture. Presentation of basic criterions for designing architecture which is introduced into ensembles of historic centers	1
Lec 8	Ensemble of the city center in Wrocław. Field trip. Analysis of contemporary architecture. Presentation of basic criterions for designing architecture which is introduced into ensembles of city centers	1
Lec 9	Field trip to the National Museum in Wrocław. Overview of the methods of displaying collections. Tour of the museum, Silesian art 14th to 20th century, Polish Painting 18th to 20th century Overview of the main stylistic trends in local art, relationship between painting, sculpture and architecture, analysis of detail and ornament	1
Lec10	Presentation of the basic principles of preparing a formal description of a building, a stylistic and structural analysis, basis of iconographic and iconological analysis.	1
Lec11	Presentation of basic principles of writing a research paper, methods of using citations, methods of bibliographic research and principles of creating a reference list.	1
Lec 12	Introduction to the Church of the Holy Name od Jesus. Baroque sacral interior, formal features and iconographic content. Trompe l'oeil. Presentation of other examples from the region of Lower Silesia.	1
Lec 14	Lecture on selected architectural designs related to the problems of heritage protection, conservation and non-conservation activities	1
Lec 14	Lecture on lighting and illumination of historic sites. Field trip to the Cathedral Island and Sand Island in Wrocław	1
Lec 15	Lecture on selected architectural designs related to the problems of heritage protection, conservation and non-conservation activities - continued	1

	Total hours	**15**

Mode of teaching - project		**Number of hours**
Pr1	Scope of the project, course completion requirements, literature. Assignment of individual design topics to students.	3
Pr2	Overview and summary of the problems associated with the design of an archaeological-architectural pavilion Students' individual project work.	3
Pr3	Overview and summary of the problems associated with the design of green areas in four-sided porticos. Students' individual project work.	3
Pr4	Overview and summary of the problems associated with the design of a ducal tomb. Students' individual project work.	3
Pr5	Overview and summary of the problems associated with the design of tented roof of a selected structure. Students' individual project work.	3
Pr6	Overview and summary of the problems associated with the designs of architectural details. Students' individual project work.	3
Pr7	Overview and summary of the problems associated with bibliographic exercises. Students' individual project work.	3
Pr8	Overview and summary of the problems associated with exercises in formulating conservation plans of historic buildings. Students' individual project work.	3
Pr9	Overview and summary of the problems associated with exercises in formulating conservation plans of interiors of historic buildings. Students' individual project work.	3
Pr10	Overview and summary of the problems associated with the projects. Students' individual project work.	3
Pr11	Overview and summary of the problems associated with the projects. Students' individual project work.	3
Pr12	Overview and summary of the problems associated with the projects. Students' individual project work.	3
Pr13	Overview and summary of the problems associated with the designs of illumination of selected historic sites. Students' individual project work.	3
Pr14	Overview and summary of the problems associated with the projects. Students' individual project work.	3
Pr15	Presentation and submission of final projects. Credit	3
	Total hours	**45**

TEACHING TOOLS
N1. expository lecture, N2. multimedia presentation,

N3. problem-solving lecture on the premises of selected historic secular and religious sites, museums and urban ensembles od the city center and the Old Town in Wrocław and on the premises of the Faculty of Architecture
N4. problem-solving discussion
N5. case study
N6. consultation

ASSESSMENT OF ACHIEVEMENT OF LEARNING OUTCOMES

Assessment (F – formative (during the semester), S – summative (at the end of semester)	Number of learning outcome	Method of assessing the achievement of learning outcome
F1	PEK_W01, PEK_W03,PEK_W06,PEK_W08 PEK_U01, PEK_U02, PEK_U03, PEK_U07, PEK_U08, PEK_U09, PEK_U10 PEK_K01-05	Alternatively: a design of a contemporary form of ducal tomb which combines the historic fragment of the structure with a modern style or a design of a contemporary pavilion for displaying archaeological-architectural artifacts on Cathedral Island
F2	PEK_W01, PEK_W04, PEK_W07 PEK_U02, PEK_U07, PEK_U08, PEK_U09, PEK_U10 PEK_K01-05	Alternatively: a design of illumination of a selected historic site or a design of a contemporary tented roof on a selected historic structure
F3	PEK_W01, PEK_W03, PEK_W04 PEK_U02, PEK_U04, PEK_U07, PEK_U08, PEK_U09, PEK_U10 PEK_K01-05	Alternatively: a design of a contemporary architectural detail for a selected historic site or a design of a contemporary solution for greenery in a four-sided portico of a selected site
F4	PEK_W01- 05 PEK_U02, PEK_U06 PEK_K01-05	Project assignment: bibliographical study
F5	PEK_W01- 05 PEK_U02, PEK_U06, PEK_U08, PEK_U09, PEK_U10 PEK_K01-05	Project assignment: description of a historic building
F6	PEK_W01- 05, 09 PEK_U02, PEK_U06, PEK_U08, PEK_U09, PEK_U10 PEK_K01-05	Project assignment: description of a historic interior
P = average of formative grades (F1+F2+F3+F4+F5+F6):6		

BASIC AND ADDITIONAL LITERATURE

BASIC LITERATURE:

[1] *Atlas architektury Wrocławia,* red. J. Harasimowicz, t.1, 2, Wrocław 1997, 1998.
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[7] L.Benevolo, Storia della citta, Bari 1975.
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[14] G.Dehio, Handbuch der deutschen Kunstdenkmaler, Berlin 1924.
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[21] *Encyklopedia Wrocławia*, red. J.Harasimowicz, Wrocław 2000
[22] R. Eysymontt, Studium historyczno – urbanistyczne centrum Legnicy, Wrocław 1989, mps. w zbiorach Konserwatora Miejskiego Legnicy.
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ADDITIONAL LITERATURE:

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COURSE ADVISOR (NAME, SURNAME, E-MAIL)
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EQUIVALENCY MATRIX OF LEARNING OUTCOMES FOR COURSE

DESIGN STUDY: PROBLEMS OF CONSERVATION OF ARCHITECTURAL HERITAGE

WITH THE LEARNING OUTCOMES FOR ARCHITECTURE AND URBAN PLANNING MAJOR

Efekt kształcenia	Relation of course outcome with learning outcomes formulated for the major	Course objectives	Curriculum content	Number of teaching tool	Assessment method
PEK_W01	**K1AIU_W01, K1AIU_W10, K1AIU_W22**	C1- C12	Wy1-Wy15, Pr1- Pr15	N1-6	P1
PEK_W02	**K1AIU_W01, K1AIU_W10, K1AIU_W15, K1AIU_W22**	C1- C3, C5-C9,C11-C12	Wy1-Wy15, Pr1-Pr15	N1-6	P1
PEK_W03	**K1AIU_W01, K1AIU_W10, K1AIU_W22**	C1- C3,C5-C6,C11,C12	Wy1, Wy13,Wy14,Wy15	N1-6	P1
PEK_W04	**K1AIU_W01, K1AIU_W10, K1AIU_W11, K1AIU_W13, K1AIU_W15, K1AIU_W22**	C1-C3,C5-C6,C10-C12	Wy1-Wy15, Pr5, Pr10-Pr12,Pr14-Pr15	N1-6	P1
PEK_W05	**K1AIU_W01, K1AIU_W10, K1AIU_W13, K1AIU_W22**	C1- C3,C5-C6,C11,C12	Wy1-Wy15	N1-6	P1
PEK_W06	**K1AIU_W01, K1AIU_W10, K1AIU_W15, K1AIU_W22**	C1-C12	Wy1,Wy2,Wy13-Wy15, Pr2,Pr10-Pr12,Pr14- Pr15	N1-6	P1
PEK_W07	**K1AIU_W01, K1AIU_W10, K1AIU_W22**	C1-C3, C6-C11	Wy1, Wy13- Wy15,Pr10-Pr15	N1-6	P1
PEK_W08	**K1AIU_W01 K1AIU_W10 K1AIU_W11 K1AIU_W15 K1AIU_W22**	C1,C2,C4	Wy1,Wy3,Wy5,Wy9,Wy13,Wy15	N1-6	P1
PEK_W09	**K1AIU_W01, K1AIU_W10, K1AIU_W11, K1AIU_W22, K1AIU_W12, K1AIU_W15, K1AIU_W19**	C1, C2, C3, C6-C11	Wy6, Wy12 Pr8, Pr9,	N1-6	F5, F6 P1
PEK_U01	**K1AIU_U01, K1AIU_U11, K1AIU_U14, K1AIU_U15, K1AIU_U23, K1AIU_U24**	C1,C4	Wy1-Wy2, Wy5,Wy12,Wy13,Wy15	N1-6	P1
PEK_U02	**K1AIU_U01, K1AIU_U11, K1AIU_U14, K1AIU_U15, K1AIU_U23, K1AIU_U24**	C1-C3,C5- C12	Wy1-Wy15, Pr1-Pr15	N1-6	P1
PEK_U03	**K1AIU_U01, K1AIU_U11, K1AIU_U14, K1AIU_U15, K1AIU_U23, K1AIU_U24**	C1-C3,C5-C7,C10	Wy1-Wy15,Pr4, Pr10-Pr12,Pr14-Pr15	N1-6	P1
PEK_U04	**K1AIU_U01, K1AIU_U11, K1AIU_U14, K1AIU_U15, K1AIU_U23, K1AIU_U24**	C1-C3, C10-C12	Wy1-Wy15, Pr3, Pr10-Pr12,Pr14-Pr15	N1-6	P1

PEK_U05	**K1AIU_U01, K1AIU_U12 , K1AIU_U13, K1AIU_U14 , K1AIU_U23**	C1-C3, C6,C7, C11-C12	Wy6,Wy10-Wy12, Pr7-Pr12,Pr14-15	N1-6	F2
PEK_U06	**K1AIU_U01, K1AIU_U11, K1AIU_U14**	C1,C6,C11	Wy1-Wy15, Pr1-Pr15	N1-6	F4,F5,F6
PEK_U07	**K1AIU_U12, K1AIU_U13, K1AIU_U14, K1AIU_U18, K1AIU_U22, K1AIU_U23, K1AIU_U25**	C1,C5-C7,C10,	Pr1-Pr15	N2,4,5,6	P1
PEK_U08	**K1AIU_U12, K1AIU_U13, K1AIU_U14, K1AIU_U18, K1AIU_U22, K1AIU_U23, K1AIU_U25**	C1,C7,C10	Pr1-Pr15	N2,4,5,6	P1
PEK_U09	**K1AIU_U12, K1AIU_U13, K1AIU_U14, K1AIU_U15, K1AIU_U18, K1AIU_U22, K1AIU_U23, K1AIU_U25, K1AIU_U26**	C1, C8	Pr1-Pr15	N2,4,5,6	P1
PEK_U10	**K1AIU_U12, K1AIU_U13, K1AIU_U14, K1AIU_U15, K1AIU_U18, K1AIU_U22, K1AIU_U23, K1AIU_U25, K1AIU_U26**	C1, C9	Pr1-Pr15	N2,4,5,6	P1
PEK_K01	**K1AIU_K01, K1AIU_K02, K1AIU_K07, K1AIU_K09**	C1-C6, C8-C9,C11-C12	Wy1 – Wy15, Pr1-Pr15	N1-6	P1
PEK_K02	**K1AIU_K01, K1AIU_K02, K1AIU_K07, K1AIU_K08, K1AIU_K09**	C1-C6, C8-C9,C11-C12	Wy1-Wy15	N1-6	P1
PEK_K03	**K1AIU_K01, K1AIU_K02, K1AIU_K04 ,K1AIU_K07, K1AIU_K09**	C1-C6, C8-C9,C11-C12	Wy1-Wy15	N1-6	P1
PEK_K04	**K1AIU_U26, K1AIU_K03, K1AIU_K08**	C1-C12	Pr1-Pr15	N1-6	P1
PEK_K05	**K1AIU_K04, K1AIU_K08**	C6-C11	Pr1-Pr15	N1-6	P1

OTHER USEFUL INFORMATION ABOUT THE COURSE (optional)
During the course students visit selected historic sites and museums- if it is impossible to enter the site on a given day or in the semester, alternative solutions are proposed or there is a change in the course schedule. **For most students this is the first encounter in situ with particular sites and museums in Wrocław.**

Zał. nr 4 do ZW 33/2012

FACULTY OF ARCHITECTURE

COURSE SYLLABUS

Course title in Polish Designing Stylistic and Stylish Interiors
Academic major (if applicable): Architecture
Specialization (if applicable): …….. Architecture
Course level and study mode: second cycle, full-time/part-time
Course type: elective
Course code: AUA107716wP
Group of courses YES

	Lecture	Tutorial	Lab	Project	Seminar
Number of contact hours	15			45	
Number of student workload hours				120	
Grading policy				Exam / Pass with grade*	
Mark (X) for final course in a group of courses				x	
ECTS points:				4	
including ECTS points for practical hours (P)				3	
including ECTS points for contact hours (CH)				1	

*delete as applicable

PREREQUISITES RELATING TO KNOWLEDGE, SKILLS AND OTHER COMPETENCIES

1. KNOWLEDGE

Knowledge of technical problems related to designing and construction of architectural structures

2. SKILLS:

Ability to analyze and distinguish between historical styles in architecture and evaluate the relationship between functional, construction and aesthetic features in interiors. Ability to apply different methods of composition, technology and materials in presenting architectural concepts: ability to use freehand drawing techniques and knowledge of computer-aided architectural design software.

3. OTHER COMPETENCIES:

Ability to take into consideration the non-technical aspects of design (especially functional, psychological and aesthetic needs of future occupants in the proposed interiors).

COURSE OBJECTIVES

C1 - To introduce students to the basic problems of designing different types of interiors of a representative character.
C2- To acquaint students with the influence of functional requirements on the spatial organization and interior design.
C3 - To develop skills in designing interiors in a specific historic style or historicizing style.
C4- To present the possibilities of applying diversified solutions related to materials, finishes, decorations and aesthetics.
C5- To develop skills in applying appropriate color solutions in old and contemporary interiors.
C6 - To acquaint students with the development prospects of styles and technology in interior

design.
C7 - To develop skills in designing and presenting medium-complex architectural concepts

COURSE LEARNING OUTCOMES

1. KNOWLEDGE

PEK_W01:
Demonstrate systematic and theoretically grounded general knowledge of designing selected types of historic interiors in specific styles. Demonstrate rudimentary knowledge of the historical construction techniques that affect the design and construction of facilities of this type in the past.

PEK_W02:
Demonstrate knowledge of functional values of interior design in the past.

PEK_W03:
Demonstrate general knowledge of orders in architecture and aesthetic values of selected types of interiors. Identify basic rules of composition and systems of stylish and stylized forms.

PEK_W04:
Understand the relationships and dependencies between historic interiors and the non-technical aspects that influence the architectural solutions and aspects of society, culture, environment, location, etc.

2. SKILLS:

PEK_U01:
Integrate and apply technical and non-technical knowledge in solving a design problem pertaining to an interior in a small scale building, room, as well as elements of finishes and furnishings

PEK_U02:
Understand the cultural constraints and the mutual relations between the structure and the historic social surroundings. Demonstrate the ability to create functional - spatial program of a structure in accordance with former and modern functional, technical and aesthetic requirements.

PEK_U03:
Create a basic conceptual architectural design of historic interior design and contemporary historicizing interior, taking into account the functional - spatial solutions and technical solutions pertaining to general construction, finishes and furnishings.

PEK_U04:
Demonstrate the ability to apply traditional and electronic technical means in presenting architectural concepts. Prepare documentation for the design task using computer aided design software. Use appropriate computer design tools to simulate the proposed space and verify the correctness of interior elements, including the method of design, function and stylistic appeal.

3. SOCIAL COMPETENCIES

PEK_K01:
Understand the role of non-technical aspects and consequences of designing historic interiors, and

especially the impact on the welfare of old buildings and the associated responsibility for decisions.
PEK_K02:
Understand the importance of interior design and its impact on the quality of life of modern society in a historic environment.

CURRICULUM CONTENT		
Mode of teaching - lectures		**Number of hours**
Lec1	**Organizational meeting, justification of the need to complete the course**	**1**
Lec2	**Former techniques of erecting buildings**	**1**
Lec3	**Historic evolution of forms of residential development**	**1**
Lec4	**Evolution of the functional structure of residential interiors**	**1**
Lec5	**Work and leisure spaces (representative rooms, bedrooms)**	**1**
Lec6	**Work and leisure spaces (kitchens and storage spaces)**	**1**
Lec7	**Work and leisure spaces (bathrooms), examples**	**1**
Lec8	**Permanent indoor enclosures (ceilings and floors), examples**	**1**
Lec9	**Permanent indoor enclosures (door and window woodwork)**	**1**
Lec10	**Permanent indoor enclosures (stairs and wall cladding)**	**1**
Lec11	**Heating of rooms (furnaces, stoves, fireplaces, heaters, etc.)**	**1**
Lec12	**Artificial lighting (flame, electric)**	**1**
Lec13	Furniture (mobile and integrated)	1
Lec 14	Additional features in interiors (drapes, paintings, clocks, sculptures, etc.)	1
Lec15	Interior colors	1
	Total hours	15

Mode of teaching - project		**Number of hours**
Pr1	Scope of the project, course completion requirements, literature. Overview of backgrounds and choice of project topics. Assignment of design topics to students.	3
Pr2	Definition of the style and functional program of the interior. Any graphic method.	3
Pr3	Interior concept. Function and structure vs building layout. Consultations.	3
Pr4	The size, proportions and covering of room. Arrangement of windows, doors, etc. Black and white graphic. Consultations.	3
Pr5	Functional and spatial concept of interior, determining the mood and decor, projections, typical cross sections, axonometric and perspective drawings. Black and white graphic. Consultations.	3
Pr6	Review of project, presentation and discussion.	3
Pr7	Functional and spatial concept of interior, determining the mood and decor, projections, typical cross sections, axonometric and perspective drawings. Black and white graphic. Consultations.	3

Pr8	Detailed functional and spatial concept of interiors, determining the mood and decor, projections, typical cross sections, axonometric and perspective drawings. Black and white graphic. Consultations.	3
Pr9	Detailed functional and spatial concept of interior, projections, typical cross sections, axonometric and perspective drawings. Samples of color and choice of materials. Consultations.	3
Pr10	Review of project, presentation and discussion.	3
Pr11	Functional and spatial concept of an interior. Selected detail in an interior. Samples of color and choice of materials. Consultations.	3
Pr12	Functional and spatial concept of an interior. Selected detail in an interior. Samples of color in a fragment of the project. Consultations.	3
Pr13	Functional and spatial concept of an interior - axonometric drawings and perspective. Colors of interiors, detail, principles of graphical presentation. Consultations.	3
Pr14	Colors of interiors, detail, principles of graphical presentation and mposition of project panels. Consultations.	3
Pr15	Submission of final project, A3 format. Assessment and credit.	3
	Total hours	45

TEACHING TOOLS
N1 -Expository lecture, multimedia presentation, problem-solving lecture. N2 - project presentations, case Study, consultation

ASSESSMENT OF ACHIEVEMENT OF LEARNING OUTCOMES

Assessment (F – formative (during the semester), S – summative (at the end of semester)	Number of learning outcome	Method of assessing the achievement of learning outcome
F1F1	PEK_W01, PEK_W02, PEK_W03,	Attendance at lectures – $\alpha_1 = 1$
F2F2	PEK_U01, PEK_U02, PEK_K01	Assessment of the content quality of the project – $\alpha_1 = 0{,}5$
F3F3	PEK_U03, PEK_K02, PEK_K01	Assessment for the presentation of problems covered by the project – $\alpha_1 = 1$
F4F4	PEK_U01	Assessment for graphic design of the project – α_3
P1= α_1 F1 where $\alpha_1 = 1$, total $\alpha = 1$		
P2= α_1 F2 + α_2F3 + α_3F4 where α_1=0,5; α_2=02; α_3=03; **total** $\alpha = 1$		

BASIC AND ADDITIONAL LITERATURE

BASIC LITERATURE:

[1] Camessaca E., Die geschichte des Hauser, E. A. Seemann Verlag 1983
[2] Hinz S., Wnętrza mieszkalne i meble, Arkady, 1980
[3] Kaesz G., Meble stylowe, Ossolineum 1990
[4] Koch W., Style w architekturze, Bertelsmann Publishing 1996
[5] Sienicki St., Historia architektury wnętrz mieszkalnych, Budownictwo i Architektura 1956
[6] Sienicki St., Wnętrza mieszkalne, Arkady, 1962
[7] Ramsey Ch., Architectural Graphic Standards, John Willey & Sons, 1988

ADDITIONAL LITERATURE:

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[2] Calloway S., The elements of Style, Octopus Publishing Group Ltd. 1996
[3] Jacobeit S., Illustrierte Alltagsgeschichte des deutschen Volkes, Urania Verlag 1987 (3 tomy)
[4] Meier- Oberist E., Kulturgeschichte des Wohnens..., Ferdinand Holzmann Verlag 1956
[5] Schrader M., Bauhistorisches Lexikon, Edition Anderweit 2003
[6] zbiorowa, Geschichte des Wohnens, Wuestenrot Stiftung 1999 (5 tomów)
[7] Zeugner G., Barwa i człowiek, Arkady 1965

COURSE ADVISOR (NAME, SURNAME, E-MAIL)

Przemysław Nowakowski PhD, przemysław.nowakowski@pwr.wroc.pl

EQUIVALENCY MATRIX OF LEARNING OUTCOMES FOR COURSE
Designing Stylistic and Stylish Interiors
WITH THE LEARNING OUTCOMES FOR ARCHITECTURE MAJOR
AND CONCENTRATION IN ARCHITECTURE

Course learning outcome	**Relation of course outcome with learning outcomes formulated for the major and specialization (if applicable)****	**Course objectives*****	**Curriculum content*****	**No. of teaching tool*****
PEK_W01	K2AIU W02, K2AIU W03, K2AIU W05, S2AR W01, S2AR_W03, S2AR_W04	01,03,04, C5, C6	Lec1 - Lec15	N1
PEK_W02	K2AIU W02, K2AIU W03, S2AR W01.S2AR W03, S2AR_W04	C1,C2, C3, 04, C7	Lec2 - Lec4	N1
PEK_W03	K2AIU W02, K2AIU W03, K2AIU W05, S2AR W01, S2AR_W04	C1,C2, C3, C4, C5, C6, C7	Lec2 - Lec4	N1
PEK_W04	K2AIU W03, K2AIU W05, S2AR W01, S2AR W03, S2AR_W04	C2, C6	Lec1 - Lec4	N1
PEK_U01	K2AIU U03, K2AIU U04, K2AIU_U06, S2AR_U01	01, C2, C3, 04, C5, 06	Pr2-Pr14, Lec5-Lec15	N1,N2
PEK_U02	K2AIU U01, K2AIU U06, S2AR_U01	C1.C2, C3, C4, C5	Pr2 — Pr14, Lec2-Lec15	N1,N2
PEK_U03	K2AIU U04, K2AIU U06, S2AR_U03, S2AR_U04	C6, C7	Pr2-Pr14, Lec5-Lec15	N2
PEK_U04	K2AIU U04, K2AIU U06, S2AR_U03, S2ARJJ04	C6, C7	Pr2 — Pr14	N2
PEK_K01	K2AIU K03, K2AIU K04, S2AR_K01, S2AR_K02	C1.C2, C3, C4, C5	Pr2- Pr14, Lec1 - Lec4	N1,N2
PEK_K02	K2AIU K03, K2AIU K04, S2AR K01, S2AR K02	C6	Pr2-Pr14, Lec1 - Lec4	N1,N2

** - enter symbols for learning outcomes related to the academic concentration/specialization
*** - from the table above

FACULTY OF ARCHITECTURE

COURSE SYLLABUS

DESIGN STUDY: **HABITAT - DESIGNING RESIDENTIAL ARCHITECTURE**

Course title in English Habitat – Residential Architecture and Design
Academic major: **ARCHITECTURE AND URBAN PLANNING**
Course level and study mode: second cycle, full-time/part-time
Course type: elective
Course code AUA107692wP
Group of courses YES

	Lecture	Tutorial	Lab	Project	Seminar
Number of contact hours	15			45	
Number of student workload hours				120	
Grading policy				**pass with grade**	
Mark (X) for final course in a group of courses				x	
ECTS points:				4	
including ECTS points for practical hours (P)				3	
including ECTS points for contact hours (CH)				1	

PREREQUISITES RELATING TO KNOWLEDGE, SKILLS AND OTHER COMPETENCIES

1. KNOWLEDGE

Knowledge of technical problems related to designing and construction of architectural structures Knowledge of typology of residential single-family and multi-family architecture and typology of dwellings.

2. SKILLS:

Design single-family and multi-family residential complexes using basic types and layouts.
Draw freehand sketches of architectural solutions, develop variants of concepts and present their ideas in a public forum.Use specialized computer aided design software.

3. OTHER COMPETENCIES:

Students can take into consideration non-technical aspects of design, in particular the impact on the environment.

COURSE OBJECTIVES

C1 - To introduce students to the advanced problems of designing the residential environment.
C2 – To develop skills in expanding interdisciplinary knowledge, carrying out individual studies and analysis
C3 – To present problems of designing in the context of social and environmental problems
C4 - To introduce students to development prospects of residential architecture.
C5 – To develop skills in using a non-standard and creative approach to designing problems with consideration of the widest possible spectrum of constraints

COURSE LEARNING OUTCOMES

Related to knowledge:

PEK_W01 define the habitat and its constitutive features.
PEK_W02 appropriate define limit size parameters of the residential complex, define the scale of the complex, choose the number of apartments and inhabitants with account being taken of data related to environmental sociology and psychology .
PEK_W03 Characterize current and future trends in residential architecture with account being taken of social transformations and technological development.

Related to skills:

PEK_U01: Analyze the location in terms of existing social circumstances, urban layout, spatial and communication relations and architecture.
PEK_U02: Propose inspiring values of a place and characterize the emotional impact of the location (genius loci)
PEK_U03: Take into consideration the specificity of location in developing a residential complex with account being taken of the scale of surroundings, economic values of space, protecting the landscape and cultural values of the place.

PEK_U04: Define the residential structure and formulate functional program of the proposed complex with account being taken of individual needs and character of neighborhood community.
PEK_U05: Creatively develop spatial layouts of residential complexes, including experimental.
Related to social competencies:
PE_K01: Understand designing residential complexes as part of a comprehensive process of organization of man's living environment which in each case takes into consideration the individual needs and circumstances.
PEK_K02 :Demonstrate awareness of the social consequences of architectural design and the influence of the spatial environment on the quality of man's life, creating and function community. Understand the risks of solutions limited to the technical and economical aspects, excluding the social aspect.

CURRICULUM CONTENT		
Mode of teaching - lectures		**Number of hours**
Lec1	Introduction to Habitat design	2
Lec2	Humanization of residential complexes	2
Lec3	Habitats on water	2
Lec4	Social circumstances of designing residential complexes	2
Lec5	Architecture and technology in the organization of man's living environment	2
Lec6	Architecture and plastic arts in contemporary art - connections and disconnections	2
Lec7	Development of urban space.	2
Lec8	Habitats of tomorrow	1
	Total hours	**15**

Mode of teaching - project		**Number of hours**
Pr1	Overview of the form of the course, scope of the project, course completion requirements, literature. Self-presentation of students with focus on experience related to the residential environment. Personal interview on the selection of the location and profile of the proposed habitat.	2
Pr2	In-class work. Definition of the social structure of habitat. Need analysis. Formulating of functional program. Determining the limit magnitude parameters. Consultations.	2
Pr3	In-class work. Processing of data from site trip. Analysis of location conditions. Study of relationships. Identification of values and problems of the studies location. Variants of the concept of Land Development Plan Consultations.	2
Pr4	In-class work. conceptual sketch of land development, scheme of functional zones, communication system and development composition. Axonometric drawings or perspective of the whole development. Consultations.	2
Pr5	In-class work. Continuation of the Land Development Project-vehicular and pedestrian communication system, greenery and landscaping features. Terrain sections. Consultations.	2
Pr6	In-class work. Continuation of the Land Development Project-vehicular and pedestrian communication system, greenery and landscaping features. Terrain sections. Perspective. Approval of the Land-Use Plan. Consultations.	2

Pr7	In-class work. Preliminary concepts of functional and spatial solution of a development complex. Functional diagrams. Consultations.	2
Pr8	In-class work. Functional and spatial concept of a development, projections and typical sections. Consultations.	3
Pr9	In-class work. Functional and spatial concept of a development, projections and typical sections, cont. Consultations.	4
Pr10	Submission of project - presentation and discussion.	4
Pr11	In-class work. Functional and spatial concept of a development, structure, construction solutions cont. Consultations.	4
Pr12	In-class work. Functional and spatial concept of a development, creating the structural system. Consultations.	4
Pr13	In-class work. Functional and spatial concept of a development, interior perspectives. Consultations.	4
Pr14	In-class work. Functional and spatial concept of a development. Graphical presentation of the project. Consultations.	4
Pr15	Presentation and submission of project. Assessment and credit.	4
	Total hours	**45**

TEACHING TOOLS
N1. for lectures: multimedia presentation, N2. for project: consultations N3. for project: project presentation N4 for project : in-class work (hand drawing, work on the model, works in files deposited with the instructor after class)

ASSESSMENT OF ACHIEVEMENT OF LEARNING OUTCOMES

Assessment (F – formative (during the semester), S – summative (at the end of semester)	Number of learning outcome	Method of assessing the achievement of learning outcome
F1	PEK_W01. PEK_W02 PEK_W03 PE_K01 PEK_K02	Oral examination - $\alpha_{1=}1$
F2	PEK_U01 PEK_U02 PEK_U03 PEK_U04 PEK_U05	Assessment of the content quality of the project - $\alpha_{1=}0,6$
F3	PEK_U05:	Assessment of the presentation of the project, including the graphic design of the project $\alpha_{2=}0,4$
P 1= α_1 F1 where α_1=1, $\Sigma\ \alpha = 1$ P 2= α_1 F2 + α_2F3, where α_1=0,6, α_2=04, , $\Sigma\ \alpha = 1$		

P1 - Final grade for oral examination

P2 - Final grade for project (weighted average: for projects – 60% , for presentations and graphical appeal 40%).

BASIC AND ADDITIONAL LITERATURE

BASIC LITERATURE

[178] Neal P., *Urban villages – and the making of communities*, Spoon Press, Londyn 2003
[179] Sakamoto T., Hwang I., Ferre A. , *Total Housing: Alternatives to Urban Sprawl*, Actar, Barcelona – New York 2010
[180] Baranowski A. *Projektowanie zrównoważone w architekturze*, Wydawnictwo Politechniki Gdańskiej, Gdańsk 1998
[181] Schneider-Skalska G., *Kształtowanie zdrowego środowiska mieszkaniowego*, Wydawnictwo Politechniki Krakowskiej, Kraków 2004
[182] Misiak W., *Jakość życia w osiedlach miejskich*, Wydawnictwo Uniwersytetu Wrocławskiego, Wrocław 1993
[183] Alexander Ch., Ishikawa S., i in., *Język wzorców*, Gdańskie Wydawnictwo Psychologiczne, Gdańsk 2008
[184] Bell P.A., Greene T.C., Fisher J.D., Baum A. , *Psychologia środowiskowa*, Gdańskie Wydawnictwo Psychologiczne, Gdańsk 2004
[185] Newman O. *Creating Defensible Space*, U.S. Department of Housing and Urban Developent, Washington 1996.
[186] Mostafavi M., *Ecological Urbanism*, Lars Müller Publishers, Baden 2010
[187] Bang J. M., *Ecovillages: A Practical Guide to Sustainable Communities*, New Society Publishers, Gabriola Island, Candada 2005

ADDITIONAL LITERATURE

[1] Castells M., *Społeczeństwo sieci*, Wydawnictwo Naukowe PWN, Warszawa 2007
[2] Palej A., *Miasta cywilizacji informacyjnej. Poszukiwanie równowagi między światem fizycznym a światem wirtualnym*, Wydawnictwo Politechniki Krakowskiej, Kraków 2003
[3] Brayer M. , Simont B. (red.) *Archilab's Future House*, Thames & Hudson, City of Orleans 2002.
[4] Włodarczyk J.A, *Żyć znaczy mieszkać*, Arkady, Warszawa-Kraków 1997
[5] Hall E.T., *Ukryty wymiar*, Wydawnictwo Literackie Muza S.A., Warszawa 1997
[6] Bać Z. (red. pracy zbiorowej), *Psychologia Organizacji Przestrzeni Środowiska Mieszkaniowego – HABITATY 2003*, Oficyna Wydawnicza Politechniki Wrocławskiej Wrocław, 2004
[7] Bać Z. (red. pracy zbiorowej), *Habitaty pro-ekologiczne – HABITATY 2009*, Oficyna Wydawnicza Politechniki Wrocławskiej, Wrocław 2010
[8] Bać Z. (red. pracy zbiorowej), *Zrównoważony rozwój środowiska mieszkaniowego – HABITATY 2010*, Oficyna Wydawnicza Politechniki Wrocławskiej, Wrocław 2011
[9] Nillesen, A.L. & Singelenberg, J., 2010. *Amphibious Housing in The Netherlands. Architecture and Urbanism on the Water*, RotterdamNAI Publishers.
[10] F.-B. Rait, L. Hertelt, R. van Gool, *Inszenierte Architektur. Wochnungsbau jenseits des Standards.* Deutsche Verlags-. Anstalt, Stuttgart-München 2003.

COURSE ADVISOR (NAME, SURNAME, E-MAIL)

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EQUIVALENCY MATRIX OF LEARNING OUTCOMES FOR COURSE
DESIGN STUDY: HABITAT - DESIGNING RESIDENTIAL ARCHITECTURE
WITH THE LEARNING OUTCOMES FOR ARCHITECTURE AND URBAN PLANNING MAJOR

Course learning outcome	Relation of course outcome with learning outcomes formulated for the major and concentration	Course objectives	Curriculum content	No. of teaching tool
PEK_W01	**K2AiU_W01** **K2AiU_W02** **K2AiU_W03**	C1, C3, C4	Lec1-Lec5, Lec8	N1
PEK_W02	**K2AiU_W01** **K2AiU_W02** **K2AiU_W03** **K2AiU_W05**	C1, C2, C3, C4	Lec1, Lec2, Lec4, Lec5, Lec7	N1
PEK_W03	**K2AiU_W01** **K2AiU_W02** **K2AiU_W03** **K2AiU_W05**	C1, C2,C3, C4, C5	Lec3, Lec5, Lec6, Lec8	N1
PEK_U01	**K2AIU_U04** **K2AIU_U05**	C1, C2,C3, C4, C5	Pr1, Pr2, Pr3	N2, N4
PEK_U02	**K2AIU_U04** **K2AIU_U05**	C1, C2,C3, C4, C5	Pr1, Pr2, Pr3	N2, N4
PEK_U03	**K2AIU_U04** **K2AIU_U05** **K2AiU_U08**	C1, C2,C3, C4, C5	Pr1- Pr9	N2, N4
PEK_U04	**K2AIU_U04** **K2AIU_U05** **K2AiU_U08**	C1, C2,C3, C4, C5	Pr1- Pr14	N2, N4
PEK_U05	**K2AIU_U04** **K2AIU_U05** **K2AiU_U08**	C1, C2,C3, C4, C5	Pr1- Pr14	N2, N4
PEK_K01	**K2AIU_K02** **K2AIU_K04**	C1, C2,C3, C5	Lec1-Lec8	N1
PEK_K02	**K2AIU_K02** **K2AIU_K04**	C1, C2,C3, C4, C5	Lec1, Lec2, Lec4, Lec5, Lec7, Lec8	N1

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FACULTY OF ARCHITECTURE

COURSE SYLLABUS

Course title in Polish **DESIGN STUDY: DESIGNING AND MODERNIZING HOSPITALS**
Course title in English DESIGN AND MODERNISATION OF THE HOSPITALS
Academic major: ARCHITECTURE AND URBAN PLANNING
Study cycle and study mode: Second cycle, full-time / part-time
Course type: elective
Course code AUA107702wP
Group of courses YES

	Lecture	Tutorial	Lab	Project	Seminar
Total number of contact hours	15			45	
Number of student workload hours				120	
Grading policy				credit	
Mark (X) for final course in a group of courses				x	
ECTS points:				4	
Including ECTS points for practical hours (P)				3	
Including ECTS points for contact hours (CH)				1	

PREREQUISITES RELATING TO KNOWLEDGE, SKILLS AND OTHER COMPETENCIES

1. **KNOWLEDGE:** understanding of technical problems related to designing and construction of architectural structures: credit for courses in building engineering : credit for courses in building engineering, structures, designing.
2. SKILLS: Ability to analyze and evaluate the mutual relationships between structure and the environment, ability to apply different techniques and materials in presenting architectural concepts: knowledge of computer-aided architectural design software. Use specialized computer aided design software., demonstrate basic knowledge needed to understand the cultural and aesthetic circumstances of professional design.
3. **OTHER COMPETENCIES**: take into consideration non-technical aspects of design, in particular the impact on the environment, and on social relations.

COURSE OBJECTIVES

COURSE OBJECTIVES

C1- To introduce students to the development of hospital architecture and the influence of medical technology on its development
C1 - To introduce students to the principles of creating space for health care function
C2- To acquaint students with the influence of technological processes on the spatial organization of a hospital or surgery
C3- To introduce students to recent trends in designing health care architecture
C4 - To develop skills in designing and presenting highly complex architectural projects

COURSE LEARNING OUTCOMES

	Related to knowledge:
K2AiU_W02	Demonstrate systematic and theoretically grounded knowledge of selected aspect of architecture and urban planning.
K2AiU_W03	Demonstrate theoretically grounded detailed knowledge of selected issues of theory and principles of architectural, urban, and conservation design related to the topic of the selected project.
K2AiU_W02	Demonstrate systematic and theoretically grounded knowledge of selected aspect of architecture and urban planning.
	Related to skills:
K2AIU_U04	Create an architectural, urban and conservation design using the most recent knowledge and scientific research related to the chosen topic of the design. Formulate main design objectives and interpret them in a creative manner based on the acquired knowledge.
K2AiU_U06	Conduct historical studies and formulate conservation objectives. Prepare a design and adaptation study of architectural heritage sites (including historical detail) and historic urban complexes and incorporate new architecture in the existing context with consideration of appropriate formal, spatial and functional relations.

CURRICULUM CONTENT		
Mode of teaching - lectures		**Number of hours**
Lec1	History of hospitals in Europe, models of hospital developments.	2
Lec2	Scientific and medical achievements affecting the development of hospitals in the 19th, 20th and 21st century	2
Lec3	Current medical functions and their influence on architecture of hospitals	2
Lec4	Latest solutions in designing and modernizing hospitals	2
Lec5	The health care system in Poland and in selected countries, their impact on hospital construction	2
Lec6	Review of norms pertaining to designing and buildings hospitals	2
Lec7	Latest medical technologies and their impact on designing and modernizing hospitals	2
Lec8	Modernization of hospitals with historical origins	2
	Total hours	**15**

Mode of teaching - project		**Number of hours**
Pr1	Overview of the scope of the project and course completion requirements, basic literature.	3
Pr2	Project analysis: main functions of hospitals, their mutual dependencies, the needs of patients, requirements of hospital staff	3

Pr3	Relationships between space in hospital building and and land plot, analysis of location determinants	3
Pr4	In-class assignment: the concept of spatial development	3
Pr5	Assessment of in-class assignment, validation of spatial development	3
Pr6,7,8	Functional relationships: the movement of patients, medical staff, technological requirements	9
Pr9	Preliminary concept of functional and spatial solutions	3
Pr10	In-class assignment: functional and spatial concept	3
Pr11	Assessment of in-class assignment, validation of the functional and spatial model of a hospital	3
Pr12, 13.14	Spatial layout, structure, spatial organization of patients, medical-technology-consulting spaces	9
Pr 15	Presentation and assessment of projects	3
	Total hours	**45**

TEACHING TOOLS
N1. for lectures: Expository lecture, multimedia presentation. N. for project: project presentation, consultations, problem-solving discussion.

ASSESSMENT OF ACHIEVEMENT OF LEARNING OUTCOMES

Assessment (F – formative (during the semester), S – summative (at the end of semester)	Number of learning outcome	Method of assessing the achievement of learning outcome
F1	PE_U01,	Assessment of the content quality of project presentation a1=0,2
F2	PE_U03	Assessment of the content quality of the project, applied architectural solutions a2=0,6
F3	PE_U03	Assessment for graphic design of the project a3=0,2
P1 is the final summative assessment of the project which is a weighted average of F1, F2, F3		

BASIC AND ADDITIONAL LITERATURE

BASIC LITERATURE:

1.A.H. Murken Von Armenhospital zum Grossklinikum. Koln 1995
2.M. Wójtowicz Dawne szpitale Wrocławia. Wrocław 2007
3.Z. Domosławski, Wprowadzenie do medycyny. Jelenia Góra 2007
4.H. Schott, Kronika Medycyny, Warszawa 2002
5.Susan Francis, Rosemary Glanville, Building a 2020 vision: Future Health care environments, Nuffield Trusr 2001
6.Pascale Blin, Cliniques et hopitaux prives 10 questions d'architecture, Editions Le Montieur, Paris 2009
7.Dominique Carre, Hospital Heritage, A journey through Europe, Paris 2001
8. Architectes Ingenieurs Associes, Grands Projets, Paris 2010
9.Cristine Nickl-Weller, Hans Nickl, Hospital Architecture and Design, Braun Publishing AG 2009
10.The American Institute of Architects Academy of Architecture for Health, Health 11.Facilities Review 2003-2004Victoria Australia 2004
12.Encarna Castillo, Ana G. Canizares, Spa and Health Club Design, teNeues Publishing Group, Kempen 2005
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ADDITIONAL LITERATURE:

1.Historia Hospitalium. Zeitschrift der Deutschen Gesellschaft fur Krankenhausgeschihte.2006-2007
2.H. Schott, Kronika Medycyny, Warszawa 2002
3.M. Schaerer S.A. The Construction of Modern Hospitals and their Equipment. Berne, Switzerland 1935
4.Susan Francis, Rosemary Glanville, Building a 2020 vision: Future Health care environments, Nuffield Trusr 2001
5.Better by design. Pursuit of excellence in healthcare buildings, London HMSO 1994
6.Alphonse de Calonne, Modern Hospitals in Erope. W The Architectural Record volume VI 1896-1897, published by The Architectural Record CO. NY City

COURSE INSTRUCTOR (NAME, SURNAME, E-MAIL)

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EQUIVALENCY MATRIX OF LEARNING OUTCOMES FOR COURSE
DESIGN STUDY: DESIGNING AND MODERNIZING HOSPITALS

Course learning outcome	Relation of course outcome with learning outcomes formulated for the major	Course objectives	Curriculum content
PEK_W01 KNOWLEDGE	K1AIU_W15	C1, C2	Lec1 – Lec8, Se1 – Se10
PEK_U01 (skills)	K1AIU_U24	C1, C2, C3, C4	Lec1 – Lec8, Se1 – Se10

FACULTY OF ARCHITECTURE

COURSE SYLLABUS

DESIGN STUDY: DESIGNING ARCHITECTURAL DETAIL

Academic major: ARCHITECTURE AND URBAN PLANNING
Specialization: ARCHITECTURE
Study cycle and study mode: Second cycle, full-time / part-time
Course type: elective
Course code: AUA107699wP
Group of courses: YES

	Lecture	Tutorial	Lab	Project	Seminar
Number of contact hours	15			45	
Number of student workload hours				120	
Grading policy				**pass with grade**	
Mark (X) for final course in a group of courses					
ECTS points:				4	
including ECTS points for practical hours (P)				3	
Including ECTS points for contact hours (CH)				21	

PREREQUISITES RELATING TO KNOWLEDGE, SKILLS AND OTHER COMPETENCIES

1. KNOWLEDGE

Knowledge of technical problems related to designing and construction of architectural structures

2. SKILLS: Ability to analyze the structure of the building; ability to express architectural ideas and concepts in the construction and material structure of a building; ability to create a building and architectural detail.

Ability to apply different techniques and materials in presenting architectural concepts: knowledge of computer-aided architectural design software.

Use specialized computer aided design software.

3. OTHER COMPETENCIES: Take into consideration the non-technical aspects of design, in particular the relations between man and architecture.

COURSE OBJECTIVES

C1 - To introduce students to the basic problems of designing architectural detail
C2- To acquaint students with the influence of requirements and technological processes and characteristics of materialson the development of an architectural and building structure
C3- To present architectural details created in modern structures
C4- To develop skills in using the language of design to describe own architectural idea
C5 - To introduce students to development prospects in in designing architectural detail.
C6 - To develop skills in designing, recording and presenting details of medium-complex architectural projects

COURSE LEARNING OUTCOMES

Related to knowledge:

K2AiU_W01

Identify basic methods of psychology.

Demonstrate basic knowledge needed to understand the social and psychological circumstances of engineering work.

Retrieve information from databases, interpret the obtained data, critically evaluate, draw conclusions and formulate and justify opinions.

Identify basic methods of engineering ethics. Demonstrate basic knowledge needed to understand the ethical and social circumstances of engineering work.

K2AiU_W04

Demonstrate theoretically grounded detailed knowledge of theory and principles of architectural design of functionally and spatially complex commercial facilities and workplaces.

K2AiU_W08

Demonstrate systematic knowledge of developing architectural form on the basis of a structural system, identify basic structural systems, understand the influence of the shape of elements on their structural properties, define criteria for selecting and select a structural system for a given functional system, characterize and suggest the main element of contemporary advanced structural systems.

Related to skills:

K2AiU_U05

Create a complex architectural design of commercial buildings and workplaces including the surrounding area – in accordance with technical, usability, aesthetic and cultural.

Integrate and creatively combine the function, form, structure and technology in an architectural design of a commercial facility or workplace.

K2AiU_U09

Compare and analyze the applicability of different structural system in a given situation, obtain information from literature, databases and other sources, design the general structural system and main structural elements, use computer aided design tools in calculating the distribution of internal forces, create preliminary designs of basic structural details.

PE_U02: Understand the cultural environment and the mutual relations between the structure and its surroundings. Create a basic architectural design of commercial architecture, which takes into consideration the functional and spatial solutions and technical solutions: buildings, structural and installation solutions.

PE_U03: Apply contemporary techniques and materials in presenting architectural concepts. Prepare documentation related to the design task using computer aided design software. Use appropriate computer aided design tools to simulate, design and verify elements.

Related to social competencies:

K2AiU_K01

Understand the need for self-learning, identify their strengths and limitations and define the direction of their future career.

K2AIU_K03

Demonstrate an awareness and understanding of the importance of non-technical aspects and consequences of the engineer's work and the responsibility for decisions.

K2AIU_K05

Understand the social responsibility of the architectural profession.

CURRICULUM CONTENT		
Mode of teaching - lectures		**Number of hours**
Lec1	The form and matter of an architectural structure. Architectural detail.	2
Lec2	Architect's tool vs the reality of implementaion	2
Lec3	Detail vs decoration. Two details - technological and architectural.	2
Lec4	Dialectics of development of material. Time of building; time of materials	2
Lec5	Extreme states of building and its details; usage.	2
Lec6	Adjacency of a building and its window with the area; the cornice and attic of the building; the entrance of the building	1
Lec7	Stairs and balustrades	1
Lec8	Materials and the structure of the elevation of the building; identification elements	2
Lec9	Rules of coordination between trades	1
	Total hours	**15**

Mode of teaching - project		**Number of hours**
Pr1	Introduction to designing, definition of requirements and form of the course. The subject of the course, assignment of building fragments for architectural detail design of the building designed in the course of the 4th year Designing Commercial Architecture.	3
Pr2	In-class assignment - proposed materials, technology and spatial design of a selected fragment of the building designed in the 4th year.	3
Pr3	Analysis of the project idea based on the completed in-class assignment. Overview of the justification for selected materials. Consultations.	3
Pr4	Analysis of external influence on selected architectural details. Choice of the best solution for the detail. Critiques in groups.	3
Pr5	Individual corrections. Analysis of building structure and its detail. Choice of the best material for the architectural detail.	3
Pr6	Individual corrections. Discussion of the detail implementation, craftsmanship, fitting problems, etc.	3
Pr7	Corrections in groups. Overview of alternative solutions of architectural details implemented in published examples or instruction manuals.	3
Pr8	In-class assignment. Investor's identification elements in the architectural detail of the entrance to the building.	3
Pr9	Review of results of the in-class assignment.	3
Pr10	Further detail studies and their mutual coordination in projections, sections and elevations. Individual corrections.	3
Pr11	Analysis of elevation design.	3
Pr12	Designing elevations , floors and ceilings. Individual corrections.	3

Pr13	Individual corrections. Improvement and revision of detail solutions, conformity of projections with sections and elevations.	3
Pr14	Mid-course review of projects. Discussion, instructor's comments. Summary of the necessary corrections.	3
Pr15	Presentation and submission of the project. Assessment and credit.	3
	Total hours	**45**

TEACHING TOOLS
EXAMPLE: N1. for lectures: **problem-solving lecture** N2. for project: project presentation, consultations

ASSESSMENT OF ACHIEVEMENT OF LEARNING OUTCOMES

Assessment (F – formative (during the semester), S – summative (at the end of semester)	Number of learning outcome	Method of assessing the achievement of learning outcome
F1	PE_W01, PE_W02, PE_W03, PE_W04, PE_K01	Oral examination - $\alpha_{1=}1$
F2	PE_U01, PE_U02, PE_K01	Assessment of the contents of the project- $\alpha_{1=}0,6$
F3	PE_U03	Assessment for the presentation of problems covered by the project - $\alpha_{2=}0,2$
F4	PE_U03	Grade for the graphical appeal of the project $\alpha_{3=}0,2$
P 1= α_1 F1 where α_1=1, Σ α = 1 P 2= α_1 F2 + α_2F3 + α_3F4, where α_1=0,6, α_2=02, α_3=02, Σ α = 1		

P1 - Final grade for oral examination

P2 - Final grade for project (weighted average: for projects – 60% , for presentations - 20% and graphical appeal 20%).

BASIC AND ADDITIONAL LITERATURE

BASIC LITERATURE:

[188] **DETAIL** - czasopismo
[2] technological information and solutions of manufacturers and producers of building elements; instructional materials of producers of building materials and construction
[3] Rozporządzenie Ministra Infrastruktury z dnia 12 kwietnia 2002 r. w sprawie warunków technicznych, jakim powinny odpowiadać budynki i ich usytuowanie (Dz. U. Nr 75 z 15 czerwca 2002 r., poz. 690)
[4] Stanisław Lose "detal architektoniczny" Raport PWr. 2005 (manuscript)

ADDITIONAL LITERATURE:

Attestations and approval certificates of the Building Research Institute

COURSE INSTRUCTOR (NAME, SURNAME, E-MAIL)

Stanisław Lose PhD; stanislaw.lose@pwr.wroc.pl;

EQUIVALENCY MATRIX OF LEARNING OUTCOMES FOR COURSE
DESIGN STUDY: DESIGNING ARCHITECTURAL DETAIL
WITH THE LEARNING OUTCOMES FOR ARCHITECTURE AND URBAN PLANNING MAJOR

Course learning outcome	Relation of course outcome with learning outcomes formulated for the major and concentration	Course objectives	Curriculum content	Number of teaching tool
PE_W01	**K1AIU_W01, K1AIU_W07, K1AIU_W09, K1AIU_W16, K1AIU_W21,**	C1, C2,C3, C4, C5	Lec1-Lec8	N1
PE_W02	**K1AIU_W01, K1AIU_W21 K1AIU_W15,**	C1, C2,C3, C4, C5	Lec1, Lec2,Lec4,Lec6, Lec8	N1
PE_W03	**K1AIU_W01, K1AIU_W21, K1AIU_W23, K1AIU_W26,**	C1, C2,C3, C4, C5	Lec3, Lec5,	N1
PE_W04	**K1AIU_W01, K1AIU_W21, K1AIU_K02,**	C1, C2,C3, C4, C5	Lec1, Lec2, Lec6,Lec7, Lec8,	N1
PE_U01	**K1AIU_U08, K1AIU_U17, K1AIU_U19,**	C1, C2,C3, C4, C5,C6	Pr2 – Pr14, Lec2,Lec7,Lec8	N1,N5
PE_U02	**K1AIU_U08, K1AIU_U18, K1AIU_U19,**	C1, C2,C3, C4, C5,C6	Pr2 – Pr14, Lec3, Lec4, Lec5, Lec6, Lec7,	N1,N5
PE_U03	**K1AIU_U16, K1AIU_U19 K1AIU_U21,**	C1, C2,C3, C4, C5,C6	Pr2 – Pr14,	N1,N5

PE_K01	**K1AIU_K02**	C1, C2,C3, C4, C5,C6	Pr2 – Pr14, Lec1,Lec2	N1,N5
PE_K02	**K1AIU_K06** **K1AIU_K08**	C1, C2,C3, C4, C5,C6	Pr1 – Pr10, WyWy1,Lec2, Lec7, Lec8	N1,N5

Zał. nr 3 do ZW

Faculty of Architecture of WrUT

COURSE SYLLABUS

Design Study: Regeneration - designing multi-active areas

Course title in English Design Studio: Regeneration: design of mixuse areas
Academic major: **ARCHITECTURE AND URBAN PLANNING**
Study cycle and study mode: Second cycle, full-time / part-time
Course type: elective
Course code: AUA107707wP
Group of courses: YES

	Lecture	Tutorial	Lab	Project	Seminar
Number of contact hours	15			45	
Number of student workload hours				120	
Grading policy				credit	
ECTS points:				4	
				X	
Including ECTS points for practical hours (P)				3	
Including ECTS points for contact hours (CH)				1	

PREREQUISITES RELATING TO KNOWLEDGE, SKILLS AND OTHER COMPETENCIES

Knowledge of principles of composition, functions of functional and spatial structures, technical infrastructure at the level of district, principles of creating functional program, principles of design presentations

COURSE OBJECTIVES

C1. To develop knowledge, taking into account aspects of its applications, related to design of independent functional and spatial structures in an urban environment with a suitable definition of the functional program and supporting technical infrastructure.
C2. To develop skills in understanding, interpretation and quantitative analysis of the output factors as the basis for urban analysis
C3. To develop and consolidate social skills related to emotional intelligence involving the skills in cooperation in a student group aimed at effective problem solving. Responsibility, honesty and reliability in conduct: respecting the rules that govern academic and social environments.

COURSE LEARNING OUTCOMES

I. Related to knowledge: **Demonstrate knowledge of urban composition, propose the right tools of urban planning analysis, name and to characterize elements of the functional-spatial structure, indicate possible variants of solutions and then choose an optimal solution, describe the process of formation of structure and explain rules of operation in the city fabric**

PEK_W01 - identify and determine the components of technical infrastructure
PEK_W01 - identify and understand the relationships between elements of the spatial structure
PEK_W03 - demonstrate knowledge of determining the size of residential structures and the needs of residents
PEK_W04 - demonstrate knowledge of determining the size of service structures and the needs of users
PEK_W05 - determine the communication links with the rest of the city structure

PEK_W06 - demonstrate knowledge of the hierarchy of services and is able to determine the size of the center-forming services
PEK_W07 - identify and distinguish a group of residential and non-residential services
PEK_W08 - demonstrate knowledge of the design and functioning of the public and private space
PEK_W09 - determine the parameters of intensity, depending on the expected character of the proposed multi-active complex with a diversified program
PEK_W10 - perform a critical analysis of variants of the project
PEK_W11 - propose a solution that meets the established functional and spatial criteria
PEK_W12 - identify rules of presentation

II. Related to skills: Properly and effectively apply the learned laws of physics in the qualitative and quantitative analysis of selected physical engineering problems

PEK_U01 – demonstrate skills in identifying elements of technical and functional infrastructure on project area
PEK_U02 - Demonstrate the ability to recognize the potential of project area and define the basic advantages and disadvantages
PEK_U03 - Demonstrate the ability to analyze the links of project area with surrounding areas
PEK_U04 - determine the parameters of range and access to basic elements of public transport
PEK_U05 - Develop a variant of functional and spatial idea for project area with the appropriate classification of features
PEK_U06 - determine the functional program and prepare area summary for the studies area
PEK_U07 - determine the functional program for the studied area
PEK_U08 create a land development plan.
PEK_U09 - develop and present the results of project work (paper report)
PEK_U10 - present the idea in multimedia form with participation in the discussion of the essential objectives of the project

III Related to social competencies: Develop and consolidate competencies in:

PEK_K01 – searching for information and its critical analysis,
PEK_K02 – working in a team and cooperating in order to improve methods of choosing strategy aimed at finding optimal solutions to problems assigned to the team,
PEK_K03 – understanding the necessity of self-education, including improvement of skills of attention and concentration on significant things and development of the ability to apply the existing skills and knowledge,
PEK_K04 – developing the ability of self-assessment and self-control and the responsibility for the results of performed actions,
PEK_K05 – respecting the rules and customs that govern academic environments.
PEK_K06 – thinking independently and creatively,
PEK_K07 – the influence of achievements related to theory of architecture and urbanism on technological, social development and environmental protection,
PEK_K08 – objectively evaluating arguments, rationally explaining and substantiating one's opinion using knowledge of architecture and urban planning.

CURRICULUM CONTENT

Mode of teaching - lectures		Number hours
Lec 1	Scope of the lecture, course completion requirements, literature. Description of the project area. Spatial program and provisions.	1
Lec 2	Overview of notions of brownfield and greenfield and the influence on strategy of revitalization activities in the city	1
Lec 3	Overview of methods of searching for solutions to problems	1
Lec 4	Overview of contemporary urban strategies	1
Lec 5	Creative explorations - overview of examples of the transformation of coastal areas	1
Lec 6	Creative explorations - overview of examples of the transformation of post-railroad areas	1

Lec 7	Creative explorations - overview of examples of the transformation of brownfields	1
Lec 8	Determining the potential of the place and needs of the residents of housing areas	1
Lec 9	Determining the potential of the space and the needs of users of center-forming services	1
W-d 10	Overview of principles of rendering communication services	1
W-d 11	Overview of principles of creating technical infrastructure	1
W-d 12	Creation and functioning of public and private space	1
W-d 13	Creating green and recreational areas.	1
W-d 14	Overview of strategies and staging of investments	1
W-d 15	Overview of selected planning provisions	1
	Total hours	**15**

Mode of teaching - project		Number Hours
Pr.1	Scope of the project, course completion requirements, literature. Introduction and discussion of issues	3
(PR) 2	Overview and summary of the problems associated with projects. Students' individual project work.	3
(PR) 3	Overview and summary of the problems associated with projects. Students' individual project work.	3
(PR) 4	Presentation of project idea, discussion and overview of presentation results.	3
(PR) 5	Students' individual project work.	3
(PR) 6	Students' individual project work.	3
(PR) 7	Students' individual project work.	3
(PR) 8	Concept presentation, discussion and overview of presentation results.	3
(PR) 9	Students' individual project work.	3
(PR) 10	Students' individual project work.	3
(PR) 11	Students' individual project work.	3
(PR) 12	Students' individual project work.	3
(PR) 13	Students' individual project work.	3
(PR) 14	Students' individual project work.	3
(PR) 15	Presentation of Regeneration Project and submission of final projects. Credit	3
	Total hours	**45**

TEACHING TOOLS
1. Expository lecture with elements of problem-solving lecture. 2. Multimedia presentations 3. Problem-oriented discussion as part of the project. 4. Presentation of topics by invited guest - a representative of the city 5. Presentation of the project, with a discussion of the basic design objectives 6. Consultations. 7. Individual work – preparation for tutorial. 8. Individual work – study and preparation for the final examination.

ASSESSMENT OF ACHIEVEMENT OF LEARNING OUTCOMES

Assessment (F – formative (during the semester), S – summative (at the end of semester)	Number of learning outcome	Method of assessing the achievement of the learning outcome
F1	PEK_U01 ÷ PEK_U10; PEK_K01 ÷ PEK_K08	discussions, preliminary presentations
F2	PEK_W01 ÷ PEK_W11; PEK_U01 ÷ PEK_U10 PEK_K03 ÷ PEK_K07	Presentation of project, written and oral exam
P = F2		

BASIC AND ADDITIONAL LITERATURE

BASIC LITERATURE:

[189] Bogdanowski J., Kompozycja i planowanie w architekturze krajobrazu, Ossolineum 1976
[190] Chmielewski J., Teoria Urbanistyki w projektowaniu i planowaniu miast, Oficyna wydawnicza PW, Warszawa 2001
[191] Czarnecki W., Planowanie miast i osiedli, PWN, Warszawa 1970
[192] Gehl Jan, Życie między budynkami, Warszawa 2010
[193] Korzeniewski Władysław, Budownictwo mieszkaniowe. Poradnik projektanta, Arkady, Warszawa 1989
[194] Nowakowski M., Komunikacja a kształtowanie centrum miasta, Arkady, Warszawa 1976
[195] Wallis A., Socjologia i kształtowanie przestrzeni, PIW, Warszawa 1971

ADDITIONAL LITERATURE:

[121] Adamczewska-Wejchert Hanna, Kształtowanie Zespołów Mieszkaniowych, Arkady Warszawa 1985
[122] Kononowicz Wanda, Wrocław. Kierunki rozwoju urbanistycznego w okresie międzywojennym, Oficyna Wydawnicza PWr. Wrocław 1997

ADDITIONAL LITERATURE IN ENGLISH:

[1] Alexander Ch., Angel S., A pat tern Language, New York 1977
[2] Ching Francis D.K., Architecture, Space & Order, Van Nostrand Reinhold, Rotterdam 1996
[3] Eisenmann P., Frankfurt Rebstock Park – Folding in time, Prestel Verlag, Munchen 1992
[4] Ibelings H., The artificial Landscape, , Contemporary Architecture, NAi Publishers
[5] LLevelyn-Davies, Urban Design Compendium 1 & 2, www.urbandesigncompendium.co.uk
[6] Lynch K., The image of the city, MIT Press, Cambridge 1960
[7] Rossi A., The architecture of the city, MIT Press, Cambridge 1984
[8] Tschumi B., Event city, MIT Press, Cambridge 1982

COURSE ADVISOR (NAME, SURNAME, E-MAIL)

Maciej Hawrylak PhD, maciej.hawrylak@pwr.wroc.pl

EQUIVALENCY MATRIX OF LEARNING OUTCOMES FOR COURSE
Design Study: Regeneration - designing multi-active areas
WITH THE LEARNING OUTCOMES FOR ARCHITECTURE AND URBAN PLANNING MAJOR

Course learning outcome	Relation of course outcome with learning outcomes formulated for the major and concentration	Course objectives	Curriculum content	Number of teaching tool
S2AR_W04	**OT2A_W04** **OT2A_W07** **OT2A_W08**	C 1	Wd-4	1,2,6,7,8
S2AR_W05	**OT2A_W02** **OT2A_W06**	C 1	Wd-2,3,5,7	1,2,6,7,8

S2AR_W06	**OT2A_W03** **OT2A_W08**	C 1	Wd-1,2,3,14,15	1,2,6,7,8
S2AR_U03	**OT2A_U11** **OT2A_U12**	C 2	Pr-4,8,15	3,4,5
S2AR_U04	**OT2A_U11** **OT2A_U16** **OT2A_U18**	C 2	Pr-4,8,15	3,4,5
S2AR_K01	**OT2A_K08**	C 3		1-6
S2AR_K02	**OT2A_K01**	C 3		7.8

FACULTY OF ARCHITECTURE

COURSE SYLLABUS

DESIGN STUDY: INVENTIVE METHODS IN ARCHITECTURAL DESIGN

Course title in English Inventive Methods in Architectural Design
Academic major: ARCHITECTURE AND URBAN PLANNING
Study cycle and study mode: Second cycle, full-time / part-time
Course type: elective
Course code AUA107695wP
Group of courses YES

	Lecture	Tutorial	Lab	Project	Seminar
Number of contact hours	15			45	
Number of student workload hours				120	
Grading policy				**pass with grade**	
Mark (X) for final course in a group of courses				X	
ECTS points:				4	
including ECTS points for practical hours (P)				3	
including ECTS points for contact hours (CH)				1	

PREREQUISITES RELATING TO KNOWLEDGE, SKILLS AND OTHER COMPETENCIES

1. KNOWLEDGE

Knowledge of problems related to aesthetics, theory of architectural concepts and principles of spatial composition

2. SKILLS:

Ability to present architectural ideas in the form of freehand drawings.

3. OTHER COMPETENCIES:

Openness, creativity, active involvement in learning about architecture, art and science

COURSE OBJECTIVES

C1- To develop creativity and skills, stimulate creative thinking by applying inventive methods in architectural design.
C2- To introduce students to different methods of designing used by known architects
C3- To present strategies and methods of stimulating creative thinking in architecture
C4- To acquaint students with criterions for evaluating and interpreting architectural works as a tool for validating and choosing the best option from the possible solutions

COURSE LEARNING OUTCOMES

Related to knowledge:

PE_W01 Demonstrate theoretically grounded knowledge in theory of architecture, including: History of architectural ideas and manifestos
PE_W02 Demonstrate theoretically grounded knowledge in theory of aesthetics, including: criterions of evaluating and interpreting a work of architecture

PE_W03 Demonstrate theoretically grounded knowledge in theory of creativity, including: methods and strategies of designing, efficiency and algorithm of decision-making

PE_W04 Describe the principles of composition and principles of creating architectural forms, including problems related to durability (*firmitas*), utility (*utilitas*) and beauty (*venustas*) in architecture

PE_W05 Define basic features of contemporary architecture styles and recognize the most recent trends in developing architectural forms

Related to skills:

PE_U01 Demonstrate the ability to retrieve information from literature of the subject, databases and other sources, draw conclusions and formulate and justify opinions, and interpret such information in the form of freehand drawings

PE_U02 Demonstrate creativity by using a modern language of architectural forms

PE_U03 Demonstrate innovation in developing structural-technological problems of architecture

PE_U04 Present an architectural concept in a graphically appealing manner

PE_U05 Work individually and in a team, prepare an architectural design in accordance with the adopted work schedule

PE_U06 Demonstrate skills in self-teaching and develop critical thinking

Related to social competencies:

PE_K01 Demonstrate openness, creativity, and active involvement in learning about architecture, art and science, and in continuous development of architectural skills

PE_K02 Demonstrate readiness to improve professional, personal and social competencies and to expand thinking horizons

CURRICULUM CONTENT		
Mode of teaching - lectures		**Number of hours**
Lec1	Introduction to theory of creativity: How to stimulate creative thinking? Plagiarism and creation in architecture	1
Lec2	Designs of famous architects. Creativity and designing methods: Le Corbusier	1
Lec 3	Designs of famous architects. Creativity and designing methods: Mies van der Rohe	1
Lec 4	Designs of famous architects. Creativity and designing methods: Alvar Aalto	1
Lec 5	Designs of famous architects. Creativity and designing methods: Mario Botta	1
Lec 6	Kitsch vs a work of architecture: architectural criticism	1
Lec7	Designs of famous architects. Creativity and designing methods: Archigram and Haus-Rucker.Co	1
Lec 8	Designs of famous architects. Creativity and designing methods: Ricardo Bofill	1
Lec 9	Designs of famous architects. Creativity and designing methods: Norman Foster	1
Lec10	Evaluation and interpretation of a work of architecture	1
Lec 11	Designs of famous architects. Creativity and designing methods: Gustav Peichl	1

Lec 12	Study of the behavior of users	1
Lec 13	Designs of famous architects. Creativity and designing methods: Tadao Ando	1
Lec 14	Designs of famous architects. Creativity and designing methods: Jean Nouvel	1
Lec 15	Efficiency in creativity – algorithm of decision-making	1
	Total hours	**15**

Mode of teaching - project		**Number of hours**
Pr1	Intuitive methods: circept (workshop)	3
Pr2	Intuitive methods: crushing (workshop)	3
Pr3	Intuitive methods: superposition (workshop)	3
Pr4	Intuitive methods: totems (workshop)	3
Pr5	Intuitive methods: discovery matrix (workshop)	3
Pr6	Presentation of projects and discussion	3
Pr7	Creative methods: teratos (workshop)	3
Pr8	Creative methods: lambda (workshop)	3
Pr9	Creative methods: Altszuller method (workshop)	3
Pr10	Methods of visual inconsistencies Presentation of projects and discussion	3
Pr11	Creative methods: Gordon method (workshop)	3
Pr12	Universal methods: method of identification with the user (warsztaty)	3
Pr13	Universal methods: brainstorming (workshop)	3
Pr14	Universal methods: visual transposition (workshop)	3
Pr15	Presentation of projects and discussion. Credit	3
	Total hours	**45**

TEACHING TOOLS
N1. for lectures: **multimedia presentation, problem-solving lecture** N5. for project: **project presentation, designing workshop,**

ASSESSMENT OF ACHIEVEMENT OF LEARNING OUTCOMES

Assessment (F – formative (during the semester), S – summative (at the end of semester)	Number of learning outcome	Method of assessing the achievement of learning outcome
F1	PE_W01, PE_W02, PE_W03, PE_W04, PE_W05, PE_U05, PE_U06, PE_K01, PE_K02	Pass with grade - α_1=1
F2	PE_U01, PE_U02,	Grade for functional-spatial innovation of the project (*utilitas, venustas*) - α_1=0,4

	PE_K01, PE_K02	
F3	PE_U01, PE_U03, PE_K01, PE_K02	Grade for structural-technological innovation of the project (*firmitas*) - $\alpha_{2=}0,4$
F4	PE_U01, PE_U04, PE_K01	Grade for the graphical appeal of the project $\alpha_{3=}0,2$
P 1= α_1 F1 where α_1=1, Σ α = 1 P 2= α_1 F2 + α_2F3 + α_3F4, where α_1=0,4 α_2=0,4 α_3=0,2 Σ α = 1		

P1 - Final grade for lecture in the form of a report: architect's sketchbook

P2 - Final grade for project (weighted average: functional and spatial innovation – 40% , structural and technological innovation - 40% and graphical appeal 20%).

BASIC AND ADDITIONAL LITERATURE

BASIC LITERATURE:

[196] Buzan, Tony, Buzan, Barry, *Mapy twoich myśli,* (*The Mind Map Book. Radiant Thinking: The Major Evolution in Human Thought*), Warszawa, Łódź: Ravi, 1998.

[197] Conrads, Ulrich, *Programs and Manifestoes on the 20 th –Century Architecture*, Cambridge: The MIT Press, 1990.

[198] *Die Grosse Architekten*, Berlin: Hauserbuch, 1989.

[199] Eco, Umberto, *Dzieło otwarte: Forma i nieokreśloność w poetykach współczesnych*, Warszawa: Czytelnik, 1994.

[200] Gelb, Michael J., *Myśleć jak Leonardo da Vinci: Siedem kroków do genialności na co dzień* (*How to Think like Leonardo da Vinci*), Poznań: REBIS, 1999.

[201] Hays, Michael K., *Architecture Theory since 1968*, Cambridge: The MIT Press, 1998.

[202] Jencks, Charles, *Ruch nowoczesny w architekturze* (*Modern Movements in Architecture*), Warszawa: Wydawnictwa Artystyczne i Filmowe, 1987.

[203] Nesbitt, Kate, *Theorizing a New Agenda for Architecture: An Anthology of Architectural Theory 1965-1995*, New York: Princeton Architectural Press, 1996.

[204] Proctor, Tony, *Twórcze rozwiązywanie problemów* (*Creative Problem Solving for Managers*), Gdańskie Wydawnictwo Psychologiczne, 2002.

[205] Spiller, Neil, *Visionary Architecture: Blueprints of the Modern Imagination*. London: Thames&Hudson, 2006.

ADDITIONAL LITERATURE:

[123] Alleva de, Anne, *Metody i teorie historii sztuki* (*Methods and Theories of Art History*), Kraków: Universitas, 2008

[124] *Art Now – Artists of the Rise of the New Millennium*, London: Taschen, 2005.

[125] Banham, Reyner, *Rewolucja w architekturze* (*Theory and Design in the First Machine Age*), Warszawa: Wydawnictwa Artystyczne i Filmowe, 1979.

[126] Brayer, Marie-Ange, Migayrou, Frédéric, *ArchiLab: Radical Experiments in Global Architecture*, Orléans: Thames & Hudson, 2001.

[127] Cohen, Jean-Louis, *Le Corbusier: The Lyricism of Architecture in the Machine Age*, London: Taschen, 2004.

[128] Giedion, Sigfried, *Space, Time and Architecture: The Growth of a New Tradition*, Harvard University Press, 2008

[129] *Haus-Rucker-Co 1967 bis 1983*, Braunschweig, Wiesbaden: Friedr.Vieweg und Sohn, 1984.

[130] Jencks, Charles, *Le Corbusier – tragizm współczesnej architektury*, Warszawa: WAiF, 1982.

[131] Ricoeur, Paul, *Język, tekst, interpretacja*, Warszawa: PIW, 1989.

[132] Spiller, Neil, *Digital Architecture Now: A Global Survey of Emerging Talent*, London: Thames & Hudson Ltd., 2008.

COURSE ADVISOR (NAME, SURNAME, E-MAIL)

Ada Kwiatkowska (PhD), ada.kwiatkowska@pwr.wroc.pl

EQUIVALENCY MATRIX OF LEARNING OUTCOMES FOR COURSE
DESIGN STUDY: INVENTIVE METHODS IN ARCHITECTURAL DESIGN
WITH THE LEARNING OUTCOMES FOR ARCHITECTURE AND URBAN PLANNING MAJOR
AND CONCENTRATION IN **ARCHITECTURE**

Course learning outcome	**Relation of course outcome with learning outcomes formulated for the major and concentration**	**Course objectives**	**Curriculum content**	**No. of teaching tool**
PEK_W01 (knowledge)	**K2AiU_W02** **K2AiU_W04** **K2AiU_W08** **S2AR_W01** **S2AR_W02** **S2AR_W03**	C2, C4	Lec1-Lec15	N1
PEK_W02	**S2AR_W01**	C2, C4	Lec1, Lec10 Pr10	N1,N5
PEK_W03	**S2AR_W03**	C2, C3	Lec1-Lec15 Pr1-Pr15	N1, N5
PEK_W04	**S2AR_W02** **S2AR_W03**	C2, C4	Lec1, Lec6, Lec12	N1
PEK_W04	**S2AR_W02** **S2AR_W03**	C1, C4	Lec1-Lec15	N1
PEK_U01 (skills)	**S2AR_U01**	C1	Lec1, Lec15 Pr1-Pr15	N1, N5
PEK_U02	**K2AiU_U01** **K2AIU_U04** **K2AIU_U05** **S2AR_U03**	C1, C3	Lec1 Pr1-Pr15	N1, N5
PEK_U03	**K2AiU_U01** **S2AR_U04** **S2AR _U07**	C1, C2, C3	Pr1-Pr15	N5
PEK_U04	**K2AiU_U01** **S2AR_U03**	C1, C4	Pr6, Pr10, Pr15	N5
PEK_U05	**K2AiU_U01** **S2AR_U04**	C1, C3	Lec7 Pr10-Pr13	N1, N5
PEK_U06	**K2AiU_U01**	C1, C4	Pr1-Pr15	N5
PEK_K01 (kompetencje)	*K2AIU_K02*	C1	Pr1-Pr15	N5
PEK_K02	**K2AIU_K02**	C3, C4	Pr1-Pr15	N5

FACULTY OF ARCHITECTURE

COURSE SYLLABUS

DESIGN STUDY – INTERIOR DESIGN - HISTORY AND MODERNITY

Academic major: **ARCHITECTURE AND URBAN PLANNING**
Study cycle and study mode: Second cycle, full-time / part-time
Course type: elective
Course code: AUA107683wP
Group of courses: NO

	Lecture	Tutorial	Lab	Project	Seminar
Number of contact hours	15			45	
Number of student workload hours				120	
Grading policy				**pass with grade**	
Mark (X) for final course in a group of courses					
ECTS points:				4	
Including ECTS points for practical hours (P)				3	
Including ECTS points for contact hours (CH)				1	

PREREQUISITES RELATING TO KNOWLEDGE, SKILLS AND OTHER COMPETENCIES

1. KNOWLEDGE

Knowledge of technical problems related to programming and designing and construction of architectural structures

Skills in analyzing the needs of occupants and evaluating the mutual relations between small functional units in interiors and in designing interior elements at different scales. Ability to apply different methods of composition, technology and materials in presenting architectural concepts: ability to use freehand drawing techniques and knowledge of computer-aided design software.

3. OTHER COMPETENCIES:

Ability to take into consideration the non-technical aspects of design (especially functional, psychological and aesthetic needs of future occupants in the proposed interiors).

COURSE OBJECTIVES

C1 - To introduce students to the advanced problems of designing different types of interiors.
C2- To acquaint students with the influence of functional requirements on the spatial organization and ergonomic requirements on the functional quality of selected types of interiors.
C3- To develop skills in verifying the degree to which interiors are adapted to serve basic functional and spatial needs of people, including those with diversified psychophysical ability.
C4- To learn examples of technological requirements in designing interiors using examples of interior details.
C4- To present the possibilities of applying diversified solutions related to materials, finishes, decorations and aesthetics.

C5- To develop skills in applying color solutions in interiors.
C6- To acquaint students with the development prospects in interior design
C7 - To develop skills in designing and presenting concepts
of medium-complex architectural structure.

COURSE LEARNING OUTCOMES

1. KNOWLEDGE

PEK_W01: Demonstrate systematic and theoretically grounded general knowledge of programming and designing selected types of interiors and interior details. Demonstrate rudimentary knowledge of technical problems related to designing and creating such structures.

PEK_W02: Describe characteristics of contemporary interior design, and interior details.

PEK_W03: Demonstrate general knowledge of designing standards for selected types of interiors. Identify basic technological requirements for designing and implementing elements interior furnishings.

PEK-W04: Understand the relationships and dependencies between the design of interiors, and non-technical aspects that influence the architectural sols and aspects of society, environment, investment economics, etc.

2. SKILLS:

PEK_U01: Integrate and apply technical and non-technical knowledge in solving a design problem pertaining to interiors at a scale of a room, elements of finishes and furnishings.

PEK_U02: Understand the cultural constraints and the mutual relations between the structure and the social surroundings. Demonstrate the ability to design a structure in accordance with former and modern functional, technical and aesthetic requirements of potential occupants.

PEK_U03: Create a conceptual architectural design of interior design and technical design of interior detail, taking into account the functional - spatial solutions and technical solutions pertaining to general construction, finishes and furnishings.

PEK_U04: Demonstrate the ability to apply traditional and electronic technical means in presenting architectural concepts. Prepare documentation of project assignment using software for computer-aided design. Use appropriate computer aided design tools to simulate, the proposed space and verify the correctness of interior elements.

3. SOCIAL COMPETENCIES

PEK_K01: Understand the role of non-technical aspects and consequences of designing interior, especially the influence on the surrounding environment and the associated responsibility for decisions.

PEK_K02: Understand the importance of interior design and its impact on on the quality of contemporary life of the society.

CURRICULUM CONTENT		
Mode of teaching - lectures		**Number hours**
Lec1	Functioning stages of technological structures	2
Lec2	Designing criteria, conditions of use of interiors.	2
Lec3	Design criteria, conditions for designing elements of the interior furnishings (housing and wooden furniture)	2
Lec4	Design criteria, conditions for designing elements of the interior furnishings (stone, plaster casing, etc.)	2
Lec5	Design criteria, conditions for designing elements of the interior furnishings (metal parts)	2
Lec6	Design criteria, conditions for designing elements of the interior furnishings (elements of upholstery, fabrics)	2

Lec7	Color and light in interiors	2
Lec8	General principles for design of industrial forms	1
	Total hours	**15**

Mode of teaching - project		**Number hours**
Pr1	Scope of the project, course completion requirements, literature. Overview of backgrounds and choice of project topics. Assignment of design topics to students.	3
Pr2	In-class assignment: conceptual sketch of the interior, functional arrangement, mood and decor of the interior. Graphical technique of student's choosing.	3
Pr3	Review of the in-class assignment. Analysis of the topics: functional programming, schemes of relations between main functional zones in the project. Consultations.	3
Pr4	Preliminary concept of the functional and spatial solution of interior. Functional diagrams. Black and white graphic. Consultations.	3
Pr5	Functional and spatial concept of interior, determining the mood and decor, projection, typical cross sections, axonometric and perspective drawings. Black and white graphic. Choice of interior element for detailed study. Consultations.	3
Pr6	Review of work, class presentation and discussion.	3
Pr7	Functional and spatial concept of interior, determining the mood and decor, projections, typical cross sections, axonometric and perspective drawings. Interior detail. Black and white graphic. Consultations.	3
Pr8	Detailed functional and spatial concept of interior, determining the mood and decor, projections, typical cross sections, axonometric and perspective drawings. Interior detail. Black and white graphic. Consultations.	3
Pr9	Detailed functional and spatial concept of interior, projections, typical cross sections, axonometric and perspective drawings. Samples of color and choice of materials. Interior detail. Consultations.	3
Pr10	Review of work, class presentation and discussion.	3
Pr11	Interior detail. Samples of color and choice of materials. Consultations.	3
Pr12	Interior detail. Samples of color in selected fragment of the project. Consultations.	3
Pr13	Functional and spatial concept of an interior - axonometric drawings and perspective. Interior colors. Interior detail. Principles of graphical presentation. Consultations.	3
Pr14	Colors of interiors, detail, principles of graphical presentation and composition of project panels. Consultations.	3
Pr15	Submission of final project, A3 format. Assessment and credit.	3
	Total hours	**45**

TEACHING TOOLS
N1. for lectures: Expository lecture, multimedia presentation, **problem-oriented lecture**
N5 for project: project presentations, case study, consultation

ASSESSMENT OF ACHIEVEMENT OF LEARNING OUTCOMES

Assessment (F – formative (during the semester), S – summative (at the end of semester)	Number of learning outcome	Method of assessing the achievement of learning outcome
F1	K2AiU_W01, K2AiU_W02, K2AiU_U01, K2AiU_K01, K2AiU_K03	Written test covering lecture topics - $\alpha_{1=}0,8$ Attendance at lectures - $\alpha_{2=}0,2$
F2	K2AiU_W01, K2AiU_W02, K2AiU_W08, K2AiU_U04, K2AiU_K03	Assessment of the content quality of the project - $\alpha_{1=}0,6$
F3	K2AiU_W01, K2AiU_W02, K2AiU_U01, K2AiU_U04, K2AiU_K03	Assessment for the presentation of problems covered by the project - $\alpha_{2=}0,1$
F4	K2AiU_W01, K2AiU_W04, K2AiU_U04	Assessment for graphic design of the project $\alpha_{3=}0,3$
P 1= $(\alpha_{1+}\alpha_2)$F1 where $\Sigma\ \alpha = 1$ P 2= α_1 F2 + α_2F3 + α_3F4 where α_1=0,6; α_2=01; α_3=03; $\Sigma\ \alpha = 1$ P1 - Attendance, final grade for written test P2 - Project attendance and final grade for project (weighted average for projects – 60% , for presentations 10% and graphical appeal 30%).		

BASIC AND ADDITIONAL LITERATURE

BASIC LITERATURE:

[1] **Gedliczka A**., Atlas miar człowieka, CIOP 2001
[2] **Grandjean E**., Ergonomia mieszkania, Arkady, 1978
[4] **Kreft W**., Ladenplanung, Alexander Koch Verlag 2002
[6] **Lawson F**., Restaurants, Clubs & Bars, Design…, Architectural Press 1998
[7] **Neufert E**., Podręcznik projektowania architektoniczno-budowlanego, Arkady, 1995
[8] **Ramsey Ch**., Architectural Graphic Standards, John Willey & Sons, 1988

ADDITIONAL LITERATURE:

[1] **Charytonowicz J**., Projektowanie laboratoryjnych stanowisk pracy, Oficyna Wydawnicza Politechniki Wrocławskiej, 1994
[3] **Marmot A**., Office Space Planning, McGraw – Hill 2000
[4] **Tilley A**., The measure of man and woman, Whitney 2001
[5] **Zeugner G**., Barwa i człowiek, Arkady 1965

Czasopisma architektoniczne i wnętrzarskie dostępne w bibliotekach wydziałowych

COURSE INSTRUCTOR (NAME, SURNAME, E-MAIL)
Professor **Jerzy Charytonowicz**, jerzy.charytonowicz@pwr.wroc.pl

EQUIVALENCY MATRIX OF LEARNING OUTCOMES FOR COURSE
DESIGN STUDY – INTERIOR DESIGN - HISTORY AND MODERNITY
WITH THE LEARNING OUTCOMES FOR ARCHITECTURE AND URBAN PLANNING MAJOR

Course learning outcome	Relation of course outcome with learning outcomes formulated for the major	Course objectives	Curriculum content	Number of teaching tool (
PEK_W01	K2AIU_W01, K2AIU_W04,	C1, C2, C3, C4, C5, C6	Lec1 – Lec8	N1
PEK_W02	K2AIU_W01, K2AIU_W04,	C4, C5, C6	Lec1 – Lec8	N1
PEK_W03	K2AIU_W01, K2AIU_W02, K2AIU_W04	C2, C3, C4, C5, C6	Lec3 – Lec8	N1
PEK_W04	K2AIU_W01, K2AIU_W02, K2AIU_W04	C1, C2, C3, C4, C5, C6, C7	Lec1 – Lec8	N1
PEK_U01	K2AIU_U01, K2AIU_U03, K2AIU_U04	C1, C2, C3	Pr2 – Pr14, Lec1 – Lec8	N1, N5
PEK_U02	K2AIU_U01, K2AIU_U03, K2AIU_U04	C1, C2, C3	Pr2 – Pr14, Lec3 – Lec8	N1, N5
PEK_U03	K2AIU_U01, K2AIU_U03, K2AIU_U04	C4, C5, C6, C7	Pr2 – Pr14, Lec3 – Lec8	N1, N5
PEK_U04	K2AIU_U01, K2AIU_U03, K2AIU_U04	C4, C5, C6, C7	Pr2 – Pr14	N1, N5
PEK_K01	K2AIU_K02, K2AIU_K03, K2AIU_K04	C1, C2, C3, C6	Pr1 – Pr14, Lec1 – Lec8	N1, N5
PEK_K02	K2AIU_K02, K2AIU_K04	C1, C2, C3, C4, C5, C6, C7	Pr1 – Pr14, Lec1 – Lec8	N1, N5

FACULTY OF ARCHITECTURE

COURSE SYLLABUS

STUDIUM PROJEKTOWE: MIEJSKIE STREFY NADWODNE PROJEKTOWANIE TERENÓW NADWODNYCH

Course title in English Design Studio: WATERFRONT - URBAN WATERSIDE ZONES
Academic major: Architecture and Urban Planning
Study cycle and study mode: Second cycle, full-time / part-time
Course type: elective
Course code: AUA107727wP
Group of courses YES

	Lecture	Tutorial	Lab	Project	Seminar
Number of contact hours	15			45	
Number of student workload hours				120	
Grading policy				pass with grade	
Mark (X) for final course in a group of courses				x	
ECTS points:				4	
including ECTS points for practical hours (P)				3	
including ECTS points for contact hours (CH)				1	

PREREQUISITES RELATING TO KNOWLEDGE, SKILLS AND OTHER COMPETENCIES

None

COURSE OBJECTIVES

C1 - To introduce students to development prospects of cities with consideration of the influence of waterside locations.

C2 - To prepare students to implement tasks related to developing waterfront zones – public spaces, semi-public space, private space, recreation and sports areas.

C3 - To introduce students to notions and problems of regulating rivers, coast lines, hydrotechnical structures, waterways.

C4 - To understand the values of opening the city towards the water, in the context of elements of landscape and spatial and functional composition - sport, recreation, transport and other advantages e.g.. economic.

C5 - To develop skills in acquiring knowledge, through analysis and presenting examples of urban solutions related to streams and water reservoirs.

C6 - To acquaint students with principles of designing space and structures related to waterways.

COURSE LEARNING OUTCOMES

Related to knowledge:

PEK_W01 - Demonstrate knowledge of the structure of example urban solutions related to streams and water reservoirs.

PEK_W02 identify and understand advantages and possibilities resulting from connecting urban structure with streams and water reservoirs.

PEK_W03 demonstrate general knowledge of historic development of urban structures with account being taken of the influence of waterside location.

Related to skills:

PEK_U01 Independently create a project of coastal area development with special regard to building structures, prepare appropriate documentation for this project and present it.

PEK_U02 Prepare and present results of research and analysis pertaining to relations between urban structure and streams and water reservoirs.

Related to social competencies:

PEK_K01 Understand the responsibility for decisions.

CURRICULUM CONTENT		
Mode of teaching - lectures		**Number of hours**
Lec1	Introduction to the course; overview of educational scope, course completion requirements, presentation of basic and additional literature. Description of development of structures of selected cities located by streams or water reservoirs	1
Lec2	Tradition and contemporaneity of building in coastal areas in Poland and in the world. Development of tourism and water recreation.	2
Lec3	Basic legal regulations. Description of Wrocław's Water Station.	2
Lec4	Water engineering in urban areas, hydraulic structures, flood control systems. Conditions of navigability of seaways. Economic and tourist docks in cities.	2
Lec5	Developing coastal areas – recreation and sports areas.	2
Lec6	Developing coastal areas - public spaces, semi-private and private.	2
Lec7	Revitalization of postindustrial and port areas – e.g. Rotterdam, London etc.	2
Lec8	New waterside districts - e.g. HafenCity Hamburg, Ijburg in Amsterdam or others. Water cities, houses on water – development trends.	2
	Total hours	**15**

Mode of teaching - project		**Number of hours**
Pr1	Scope of the project, course completion requirements, literature. Assignment of individual or group design topics to students.	3
Pr2	Overview and summary of the problems associated with projects. Students' individual project work.	3
Pr3	Overview and summary of the problems associated with projects. Students' individual project work.	3
Pr4	Overview and summary of the problems associated with projects. Students' individual project work. Presentation and assessment of the first drafts of projects.	3

Pr5	Overview and summary of the problems associated with projects. Students' individual project work.	3
Pr6	Overview and summary of the problems associated with projects. Students' individual project work.	3
Pr7	Overview and summary of the problems associated with projects. Students' individual project work.	3
Pr8	Overview and summary of the problems associated with projects. Students' individual project work. Presentation and assessment of the second stage of projects.	3
Pr9	Overview and summary of the problems associated with projects. Students' individual project work.	3
Pr10	Overview and summary of the problems associated with projects. Students' individual project work.	3
Pr11	Overview and summary of the problems associated with projects. Students' individual project work. Presentation and assessment of the third stage of projects.	3
Pr12	Overview and summary of the problems associated with projects. Students' individual project work.	3
Pr13	Overview and summary of the problems associated with projects. Students' individual project work.	3
Pr14	Overview and summary of the problems associated with projects. Students' individual project work. Presentation, submission and assessment of final projects by students.	3
Pr15	Presentation and submission of final projects. Credit	3
	Total hours	**45**

TEACHING TOOLS
N1. Expository lecture with elements of problem-solving lecture. N2. Multimedia presentations N3. Interactive lecture and project. N4. Individual work – preparation for project. N5. Consultations. N6. Individual work – study and preparation for the final test.

ASSESSMENT OF ACHIEVEMENT OF LEARNING OUTCOMES

Assessment (F – formative (during the semester), S – summative (at the end of semester)	Number of learning outcome	Method of assessing the achievement of learning outcome
F1	PEK_U01, PEK_U02, PEK_K01	Assessment of the presentation of intermediate stages of the project and submission of the finished project.
F2	PEK_W01, PEK_W02, PEK_W03	Assessment of active participation in discussions and final grade for the test covering lectures.
P = 0.7 F1 + 0.3 F2		

BASIC AND ADDITIONAL LITERATURE

BASIC LITERATURE:

[34] Ast Robert „Architektura wybrzeża: uwarunkowania i rozwój.", Wydawnictwo Politechniki Poznańskiej, Poznań 1999

[35] Pancewicz, Alina. „Rzeka w krajobrazie miasta" Gliwice : Wydaw. Politechniki Śląskiej, 2004.

[36] Siemiński Janusz, „Śródlądowe zespoły miejsko – portowe. Przyczynek do planowania przestrzennego" PWN Warszawa 1973

[37] "Współczesne tendencje w turystyce i rekreacji"praca zbiorowa, Wydawnictwo AWF, Wrocław 2004

[38] Wróbel Tadeusz, "Zarys historii budowy miast", Zakład Narodowy im. Ossolińskich Wrocław – Warszawa – Kraków – Gdansk 1971

[39] Gastil Raymond W. "Beyond the edge. New York's new waterfront" New York Princeton Architectural Press, cop. 2002.

[40] Wierzbicka Bożena "Miasto tyłem do rzeki: materiały sesji naukowej, Warszawa, 22-23 czerwca 1995", Warszawa Towarzystwo Opieki nad Zabytkami 1996

ADDITIONAL LITERATURE:

[29] Kaniecki Alfred „Poznań. Dzieje miasta woda pisane. Część I Przemiany rzeźby i sieci wodnej". Poznań 1993

[30] Czerner Olgierd, red. "Oa we Wrocławiu" Wrocław Ossolineum 1984 PhD

[31] Moretti Marta " 10 Zasad Zrównoważonego Rozwoju Miejskich Terenów Nabrzeżnych" materiały konferencyjne "Tereny nadrzeczne przestrzenią integracji mieszkańców" Gdańsk 2010

COURSE ADVISOR (NAME, SURNAME, E-MAIL)

Anna Lower PhD, anna.lower@pwr.wroc.pl

EQUIVALENCY MATRIX OF LEARNING OUTCOMES FOR COURSE
STUDIUM PROJEKTOWE: MIEJSKIE STREFY NADWODNE PROJEKTOWANIE TERENÓW NADWODNYCH

WITH THE LEARNING OUTCOMES FOR ARCHITECTURE AND URBAN PLANNING MAJOR

Course learning outcome	Relation of course outcome with learning outcomes formulated for the major	Course objectives	Curriculum content	No. of teaching tool
PEK_W01 (knowledge)	**K2AiU_W02, K2AiU_W06,**	C1, C2, C3	Lec1 – Lec8,	N1, N2, N3, N5, N6,
PEK_W02	**K2AiU_W02, K2AiU_W06,**	C4	Lec1 – Lec8,	N1, N2, N3, N6
PEK_W03	**K2AiU_W06**	C1, C3	Lec1 – Lec8,	N1, N2, N3, N6
PEK_U01 (skills)	**K2AIU_U04, K2AIU_U07**	C6	P1, P15	N2, N3, N4, N5,
PEK_U02	**K2AIU_U03**	C5	P1, P15	N2, N3, N5
PEK_K01 (competencies)	**K2AIU_K03**	C4, C5, C6	P1, P15	N2, N3, N4, N5,

FACULTY OF ARCHITECTURE

COURSE SYLLABUS

STUDIUM PROJEKTOWE: MIEJSKIE STREFY NADWODNE PROJEKTOWANIE TERENÓW NADWODNYCH

Course title in English Design Studio: WATERFRONT - URBAN WATERSIDE ZONES
Academic major: Architecture and Urban Planning
Study cycle and study mode: Second cycle, full-time / part-time
Course type: elective
Course code: AUA107727wP
Group of courses YES

	Lecture	Tutorial	Lab	Project	Seminar
Number of contact hours	15			45	
Number of student workload hours				120	
Grading policy				pass with grade	
Mark (X) for final course in a group of courses				x	
ECTS points:				4	
including ECTS points for practical hours (P)				3	
including ECTS points for contact hours (CH)				1	

PREREQUISITES RELATING TO KNOWLEDGE, SKILLS AND OTHER COMPETENCIES

None

COURSE OBJECTIVES

C1 - To introduce students to development prospects of cities with consideration of the influence of waterside locations.

C2 - To prepare students to implement tasks related to developing waterfront zones – public spaces, semi-public space, private space, recreation and sports areas.

C3 - To introduce students to notions and problems of regulating rivers, coast lines, hydrotechnical structures, waterways.

C4 - To understand the values of opening the city towards the water, in the context of elements of landscape and spatial and functional composition - sport, recreation, transport and other advantages e.g.. economic.

C5 - To develop skills in acquiring knowledge, through analysis and presenting examples of urban solutions related to streams and water reservoirs.

C6 - To acquaint students with principles of designing space and structures related to waterways.

COURSE LEARNING OUTCOMES

Related to knowledge:

PEK_W01 - Demonstrate knowledge of the structure of example urban solutions related to streams and water reservoirs.

PEK_W02 identify and understand advantages and possibilities resulting from connecting urban structure with streams and water reservoirs.

PEK_W03 demonstrate general knowledge of historic development of urban structures with account being taken of the influence of waterside location.

Related to skills:

PEK_U01 Independently create a project of coastal area development with special regard to building structures, prepare appropriate documentation for this project and present it.

PEK_U02 Prepare and present results of research and analysis pertaining to relations between urban structure and streams and water reservoirs.

Related to social competencies:

PEK_K01 Understand the responsibility for decisions.

CURRICULUM CONTENT		
Mode of teaching - lectures		**Number of hours**
Lec1	Introduction to the course; overview of educational scope, course completion requirements, presentation of basic and additional literature. Description of development of structures of selected cities located by streams or water reservoirs	1
Lec2	Tradition and contemporaneity of building in coastal areas in Poland and in the world. Development of tourism and water recreation.	2
Lec3	Basic legal regulations. Description of Wrocław's Water Station.	2
Lec4	Water engineering in urban areas, hydraulic structures, flood control systems. Conditions of navigability of seaways. Economic and tourist docks in cities.	2
Lec5	Developing coastal areas – recreation and sports areas.	2
Lec6	Developing coastal areas - public spaces, semi-private and private.	2
Lec7	Revitalization of postindustrial and port areas – e.g. Rotterdam, London etc.	2
Lec8	New waterside districts - e.g. HafenCity Hamburg, Ijburg in Amsterdam or others. Water cities, houses on water – development trends.	2
	Total hours	**15**

Mode of teaching - project		**Number of hours**
Pr1	Scope of the project, course completion requirements, literature. Assignment of individual or group design topics to students.	3
Pr2	Overview and summary of the problems associated with projects. Students' individual project work.	3
Pr3	Overview and summary of the problems associated with projects. Students' individual project work.	3
Pr4	Overview and summary of the problems associated with projects. Students' individual project work. Presentation and assessment of the first drafts of projects.	3

Pr5	Overview and summary of the problems associated with projects. Students' individual project work.	3
Pr6	Overview and summary of the problems associated with projects. Students' individual project work.	3
Pr7	Overview and summary of the problems associated with projects. Students' individual project work.	3
Pr8	Overview and summary of the problems associated with projects. Students' individual project work. Presentation and assessment of the second stage of projects.	3
Pr9	Overview and summary of the problems associated with projects. Students' individual project work.	3
Pr10	Overview and summary of the problems associated with projects. Students' individual project work.	3
Pr11	Overview and summary of the problems associated with projects. Students' individual project work. Presentation and assessment of the third stage of projects.	3
Pr12	Overview and summary of the problems associated with projects. Students' individual project work.	3
Pr13	Overview and summary of the problems associated with projects. Students' individual project work.	3
Pr14	Overview and summary of the problems associated with projects. Students' individual project work. Presentation, submission and assessment of final projects by students.	3
Pr15	Presentation and submission of final projects. Credit	3
	Total hours	**45**

TEACHING TOOLS
N1. Expository lecture with elements of problem-solving lecture. N2. Multimedia presentations N3. Interactive lecture and project. N4. Individual work – preparation for project. N5. Consultations. N6. Individual work – study and preparation for the final test.

ASSESSMENT OF ACHIEVEMENT OF LEARNING OUTCOMES

Assessment (F – formative (during the semester), S – summative (at the end of semester)	Number of learning outcome	Method of assessing the achievement of learning outcome
F1	PEK_U01, PEK_U02, PEK_K01	Assessment of the presentation of intermediate stages of the project and submission of the finished project.
F2	PEK_W01, PEK_W02, PEK_W03	Assessment of active participation in discussions and final grade for the test covering lectures.
P = 0.7 F1 + 0.3 F2		

BASIC AND ADDITIONAL LITERATURE

BASIC LITERATURE:

[41] Ast Robert „Architektura wybrzeża: uwarunkowania i rozwój.", Wydawnictwo Politechniki Poznańskiej, Poznań 1999

[42] Pancewicz, Alina. „Rzeka w krajobrazie miasta" Gliwice : Wydaw. Politechniki Śląskiej, 2004.

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ADDITIONAL LITERATURE:

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[34] Moretti Marta " 10 Zasad Zrównoważonego Rozwoju Miejskich Terenów Nabrzeżnych" materiały konferencyjne "Tereny nadrzeczne przestrzenią integracji mieszkańców" Gdańsk 2010

COURSE ADVISOR (NAME, SURNAME, E-MAIL)

Anna Lower PhD, anna.lower@pwr.wroc.pl

EQUIVALENCY MATRIX OF LEARNING OUTCOMES FOR COURSE
STUDIUM PROJEKTOWE: MIEJSKIE STREFY NADWODNE PROJEKTOWANIE TERENÓW NADWODNYCH

WITH THE LEARNING OUTCOMES FOR ARCHITECTURE AND URBAN PLANNING MAJOR

Course learning outcome	Relation of course outcome with learning outcomes formulated for the major	Course objectives	Curriculum content	No. of teaching tool
PEK_W01 (knowledge)	**K2AiU_W02, K2AiU_W06,**	C1, C2, C3	Lec1 – Lec8,	N1, N2, N3, N5, N6,
PEK_W02	**K2AiU_W02, K2AiU_W06,**	C4	Lec1 – Lec8,	N1, N2, N3, N6
PEK_W03	**K2AiU_W06**	C1, C3	Lec1 – Lec8,	N1, N2, N3, N6
PEK_U01 (skills)	**K2AIU_U04, K2AIU_U07**	C6	P1, P15	N2, N3, N4, N5,
PEK_U02	**K2AIU_U03**	C5	P1, P15	N2, N3, N5
PEK_K01 (competencies)	**K2AIU_K03**	C4, C5, C6	P1, P15	N2, N3, N4, N5,

FACULTY OF ARCHITECTURE

COURSE SYLLABUS

DESIGN STUDY: Workplace ergonomics

Academic major: **ARCHITECTURE AND URBAN PLANNING**
Study cycle and study mode: Second cycle, full-time / part-time
Course type: elective
Course code: AUA107689wP
Group of courses: YES

	Lecture	Tutorial	Lab	Project	Seminar
Number of contact hours	15			45	
Number of student workload hours				120	
Grading policy				pass with grade	
Mark (X) for final course in a group of courses					
ECTS points:				4	
including ECTS points for practical hours (P)				3	
Including ECTS points for contact hours (CH)				1	

PREREQUISITES RELATING TO KNOWLEDGE, SKILLS AND OTHER COMPETENCIES

1. KNOWLEDGE

Knowledge of technical problems related to programming and designing of architectural structure and their furnishings: credit for courses in building engineering and earlier project courses.

2. SKILLS:

Skills in analyzing the needs of occupants and evaluating the mutual relations between small functional units in interiors. Ability to apply different methods of composition, technology and materials in presenting architectural concepts: ability to use freehand drawing techniques and knowledge of computer-aided architectural design software.

3. OTHER COMPETENCIES:

Ability to take into consideration the non-technical aspects of design, especially functional, psychological and aesthetic needs of future occupants in the proposed interiors and their furnishings.

COURSE OBJECTIVES

C1 - To introduce students to the basic problems of designing different types of rooms and their furnishings in terms of work comfort.
C2- To acquaint students with the influence of functional requirements on the spatial organization and ergonomic requirements on the functional quality of selected types of rooms.
C3- To develop skills in verifying the degree to which rooms are adapted to serve basic functional and spatial needs of people at work.
C4- To present the possibilities of applying diversified solutions related to materials, finishes, decorations and aesthetics as well as specialist the furnishings for different kind of work.
C5- To develop skills in applying color solutions in interiors.
C6- To acquaint students with the development prospects in interior design and diversified work stations.
C7 - To develop skills in designing and presenting medium-complex architectural concepts

COURSE LEARNING OUTCOMES

1. KNOWLEDGE

PEK_W01: Demonstrate systematic and theoretically grounded general knowledge of programming and designing selected types of rooms and work spaces (mainly offices). Demonstrate rudimentary knowledge of technical problems related to programming, designing and creating such structures.
PEK_W02: Describe the types and character of work (in the office, kitchen, etc..) and functional and spatial needs of people working.
PEK_W03: Describe characteristics of contemporary interior design and work spaces.
PEK_W04: Demonstrate general knowledge of safety and designing standards and of selected types of of rooms with work spaces. Recognize basic regulations pertaining to technical requirements for rooms and work spaces in terms of ergonomics standards.
PEK-W05: Understand the relationships and dependencies between designing interiors and non-technical aspects that influence the architectural solutions and aspects of society, environment, humanization of space of work, investment economics, etc.

2. SKILLS:

PEK_U01: Integrate and apply technical and non-technical knowledge in solving a design problem pertaining to an interior, room, elements of finishes and furnishings (especially work spaces).
PEK_U02: Understand the cultural constraints and the mutual relations between the structure and the social surroundings. Create functional and spatial program of structures in accordance with functional, psychological and aesthetic needs of working occupants.
PEK_U03: Create a basic conceptual architectural design of interior design and design of work spaces, taking into account the functional - spatial solutions and technical solutions pertaining to general construction, finishes and furnishings.
PEK_U04: Demonstrate the ability to apply traditional and electronic technical means in presenting architectural concepts. Prepare documentation for the design task using computer aided design software. Use appropriate computer assisted design tools to simulate the proposed space and verify the correctness of interior elements, among others in adapting them to essential functional and spatial needs of people and the specificity and requirements associated with work spaces.

3. SOCIAL COMPETENCIES

PEK_K01: Understand the role of architectural space in the shaping of processes, rooms, work spaces and work comfort.
PEK_K02: Understand the role of non-technical aspects and consequences of interior design and design of work spaces, and especially the influence on the surrounding space and the associated responsibility for decisions.
PEK_K03: Understand the importance of the design of work spaces and its impact on quality of life of contemporary society.

CURRICULUM CONTENT		
Mode of teaching - lectures		**Number hours**
Lec1	Organizational meeting, justification of the need to complete the course	1
Lec2	Work in the past and present, history and the interdisciplinary nature of ergonomics	1
Lec3	Anthropometric features, percentile measures, demographic trends	1
Lec4	Man as the measure for creating rooms and work spaces	1
Lec5	Ergonomics and physiology of sitting, working in a seated position	1
Lec6	Working surfaces, diversified functional arrangements and levels of work	1
Lec7	Basic types of work and workplaces.	1
Lec8	Ergonomics of storage furniture in the work environment	1
Lec9	Work comfort vs rooms microclimate	1
Lec10	Influence of daylight and artificial light on the comfort of work	1
Lec11	Psychological aspects of the work environment	1
Lec12	Operational Health and Safety issues	1
Lec13	Technical aspects vs work quality	1
Lec14	Housework, their specificity and the role in the household	1

Lec15	Work spaces vs. the legislation in Poland and other countries	1
	Total hours	**15**

Mode of teaching - project		**Number hours**
Pr1	Scope of the project, course completion requirements, literature. Overview of backgrounds and choice of project topics (single rooms). Assignment of design topics to students.	3
Pr2	In-class assignment: functional program, conceptual sketch of the interior, scheme of functional zones, communication layout and interior composition (functional arrangement, mood and decor of the interior). Axonometric drawings or perspective of the whole development. Graphical technique of the student's choosing.	3
Pr3	Review of the in-class assignment. Analysis of the topics: functional programming, schemes of relations between main functional zones in the project. Consultations.	3
Pr4	Preliminary concept of the functional and spatial solution of interior. Functional diagrams. Black and white graphic. Consultations.	3
Pr5	Functional and spatial concept of interior, specialist equipment, determining the mood and decor, projections, typical cross sections, axonometric and perspective drawings. Black and white graphic. Consultations.	3
Pr6	Review of work, class presentation and discussion.	3
Pr7	Functional and spatial concept of interior, specialist equipment, determining the mood and decor, projections, typical cross sections, axonometric and perspective drawings. Black and white graphic. Consultations.	3
Pr8	Detailed functional and spatial concept of interior, specialist equipment, determining the mood and decor, projections, cross sections, axonometric and perspective drawings. Black and white graphic. Consultations.	3
Pr9	Detailed functional and spatial concept of interior, projections, specialist furnishings, sections, axonometric and perspective drawings. Samples of color and choice of materials. Consultations.	3
Pr10	Review of work, class presentation and discussion.	3
Pr11	Functional and spatial concept of an interior. Ergonomic analysis of a s selected fragment of the project in the relation man – technical product. Samples of color and choice of materials. Consultations.	3
Pr12	Functional and spatial concept of an interior. Ergonomic analysis of movement and maneuvering space of people working. Samples of color in selected fragment of the project. Consultations.	3
Pr13	Functional and spatial concept of an interior - axonometric drawings and perspective. Colors of interiors, principles of graphical presentation. Consultations.	3
Pr14	Colors of interiors, detail, principles of graphical presentation and composition of project panels. Consultations.	3
Pr15	Submission of final project, A3 format. Assessment and credit.	3
	Total hours	**45**
TEACHING TOOLS		
N1. for lectures: Expository lecture, multimedia presentation, problem-solving lecture N5 for project: project presentations, case study, consultation		

ASSESSMENT OF ACHIEVEMENT OF LEARNING OUTCOMES

Assessment (F – formative (during the semester), S – summative (at the end of semester)	Number of learning outcome	Method of assessing the achievement of learning outcome

F1	K2AiU_W01, K2AiU_W02, K2AiU_U01, K2AiU_K01, K2AiU_K03	Written test covering lecture topics - $\alpha_{1=}0,1$
F2	K2AiU_W01, K2AiU_W02, K2AiU_W08, K2AiU_U04, K2AiU_K03	Assessment of the content quality of the project - $\alpha_{2=}0,6$
F3	K2AiU_W01, K2AiU_W02, K2AiU_U01, K2AiU_U04, K2AiU_K03	Assessment for the presentation of problems covered by the project - $\alpha_{3=}0,1$
F4	K2AiU_W01, K2AiU_W04, K2AiU_U04	Assessment for graphic design of the project $\alpha_{4=}0,2$
$P1 = \alpha_1 F1 + \alpha_2 F2 + \alpha_3 F3 + \alpha_4 F4$ gdzie $\alpha_1=0.1$; $\alpha_2=06$; $\alpha_3=01$; a4=02; $\Sigma\alpha = 1$ P1 - Project attendance and final grade for project (weighted average: for projects – 60% , for presentations 10% and graphical appeal 20% and the final written test covering the lectures – 10%).		

BASIC AND ADDITIONAL LITERATURE

BASIC LITERATURE:

[1] **Gedliczka A**., Atlas miar człowieka, CIOP 2001
[2] **Neufert E**., Podręcznik projektowania architektoniczno-budowlanego, Arkady, 1995
[3] **Olszewski J**., Podstawy ergonomii i fizjologii pracy, Wydawnictwo Akademii Ekonomicznej w Poznaniu 1997
[4] **Ramsey Ch**., Architectural Graphic Standards, John Willey & Sons, 1988
[5] zbiorowa, Bezpieczeństwo pracy i ergonomia, CIOP 1997

ADDITIONAL LITERATURE:

[1] **Charytonowicz J**., Projektowanie laboratoryjnych stanowisk pracy, Oficyna Wydawnicza Politechniki Wrocławskiej, 1994
[2] **Górska E**., Ergonomia w projektowaniu stanowisk pracy…, Oficyna Wydawnicza PW 1998
[3] **Tilley A**., The measure of man and woman, Whitney 2001
[4] **Zeugner G**., Barwa i człowiek, Arkady 1965

Czasopisma architektoniczne i wnętrzarskie dostępne w bibliotekach wydziałowych

COURSE INSTRUCTOR (NAME, SURNAME, E-MAIL)

Dr inż. arch. **Przemysław Nowakowski**, przemysław.nowakowski@pwr.wroc.pl

EQUIVALENCY MATRIX OF LEARNING OUTCOMES FOR COURSE
DESIGN STUDY: WORKPLACE ERGONOMICS
WITH THE LEARNING OUTCOMES FOR ARCHITECTURE AND URBAN PLANNING MAJOR

Course learning outcome	Relation of course outcome with learning outcomes formulated for the major	Course objectives	Curriculum content	Number of teaching tool
PEk_W01	K2AIU_W01, K2AIU_W02	C1, C2, C3	Lec1 – Lec15	N1

PEk_W02	K2AIU_W01, K2AIU_W02	C1, C2, C3	Lec3 – Lec14	N1
PEk_W03	K2AIU_W01, K2AIU_W02,	C1, C2, C3, C4, C5, C6, C7	Lec2, Lec15	N1
PEk_W04	K2AIU_W02, K2AIU_W03	C1, C2, C3, C4, C6, C7	Lec3 – Lec7, Lec9, Lec10, Lec12, Lec 14, Lec15	N1
PEk_W05	K2AIU_W01, K2AIU_W02, K2AIU_W04	C1, C2, C3, C4, C5, C6, C7	Lec2, Lec4, Lec11 – Lec13, Lec15	N1
PEk_U01	K2AIU_U01, K2AIU_U03, K2AIU_U04	C1, C2, C3, C4, C5, C6	Pr2 – Pr14, Lec2 – Lec15	N1, N5
PEk_U02	K2AIU_U01, K2AIU_U03, K2AIU_U04	C1, C2, C3, C4, C5, C6	Pr2 – Pr14, Lec2 – Lec15	N1, N5
PEk_U03	K2AIU_U01, K2AIU_U04, K2AIU_U04	C1, C2, C3, C4, C5,C6	Pr2 – Pr14	N5
PEk_U04	K2AIU_U01, K2AIU_U03	C1, C5, C6	Pr2 – Pr14	N5
PEk_K01	K2AIU_K02, K2AIU_K03,	C1, C2, C3, C4, C5	Pr2 – Pr14, Lec2 – Lec4, Lec11, Lec12	N1, N5
PEk_K02	K2AIU_K02, K2AIU_K03,	C5, C6	Lec2, Lec11, Lec12, Lec15	N1
PEk_K03	K2AIU_K04,	C6	Lec1 – Lec15	N1

FACULTY OF ARCHITECTURE

COURSE SYLLABUS

DESIGN STUDY: Workplace ergonomics

Academic major: **ARCHITECTURE AND URBAN PLANNING**
Study cycle and study mode: Second cycle, full-time / part-time
Course type: elective
Course code: AUA107689wP
Group of courses: YES

	Lecture	Tutorial	Lab	Project	Seminar
Number of contact hours	15			45	
Number of student workload hours				120	
Grading policy				pass with grade	
Mark (X) for final course in a group of courses					
ECTS points:				4	
including ECTS points for practical hours (P)				3	
Including ECTS points for contact hours (CH)				1	

PREREQUISITES RELATING TO KNOWLEDGE, SKILLS AND OTHER COMPETENCIES

1. KNOWLEDGE

Knowledge of technical problems related to programming and designing of architectural structure and their furnishings: credit for courses in building engineering and earlier project courses.

2. SKILLS:

Skills in analyzing the needs of occupants and evaluating the mutual relations between small functional units in interiors. Ability to apply different methods of composition, technology and materials in presenting architectural concepts: ability to use freehand drawing techniques and knowledge of computer-aided architectural design software.

3. OTHER COMPETENCIES:

Ability to take into consideration the non-technical aspects of design, especially functional, psychological and aesthetic needs of future occupants in the proposed interiors and their furnishings.

COURSE OBJECTIVES

C1 - To introduce students to the basic problems of designing different types of rooms and their furnishings in terms of work comfort.
C2- To acquaint students with the influence of functional requirements on the spatial organization and ergonomic requirements on the functional quality of selected types of rooms.
C3- To develop skills in verifying the degree to which rooms are adapted to serve basic functional and spatial needs of people at work.
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C6- To acquaint students with the development prospects in interior design and diversified work stations.
C7 - To develop skills in designing and presenting medium-complex architectural concepts

COURSE LEARNING OUTCOMES

1. KNOWLEDGE

PEK_W01: Demonstrate systematic and theoretically grounded general knowledge of programming and designing selected types of rooms and work spaces (mainly offices). Demonstrate rudimentary knowledge of technical problems related to programming, designing and creating such structures.
PEK_W02: Describe the types and character of work (in the office, kitchen, etc..) and functional and spatial needs of people working.
PEK_W03: Describe characteristics of contemporary interior design and work spaces.
PEK_W04: Demonstrate general knowledge of safety and designing standards and of selected types of of rooms with work spaces. Recognize basic regulations pertaining to technical requirements for rooms and work spaces in terms of ergonomics standards.
PEK-W05: Understand the relationships and dependencies between designing interiors and non-technical aspects that influence the architectural solutions and aspects of society, environment, humanization of space of work, investment economics, etc.

2. SKILLS:

PEK_U01: Integrate and apply technical and non-technical knowledge in solving a design problem pertaining to an interior, room, elements of finishes and furnishings (especially work spaces).
PEK_U02: Understand the cultural constraints and the mutual relations between the structure and the social surroundings. Create functional and spatial program of structures in accordance with functional, psychological and aesthetic needs of working occupants.
PEK_U03: Create a basic conceptual architectural design of interior design and design of work spaces, taking into account the functional - spatial solutions and technical solutions pertaining to general construction, finishes and furnishings.
PEK_U04: Demonstrate the ability to apply traditional and electronic technical means in presenting architectural concepts. Prepare documentation for the design task using computer aided design software. Use appropriate computer assisted design tools to simulate the proposed space and verify the correctness of interior elements, among others in adapting them to essential functional and spatial needs of people and the specificity and requirements associated with work spaces.

3. SOCIAL COMPETENCIES

PEK_K01: Understand the role of architectural space in the shaping of processes, rooms, work spaces and work comfort.
PEK_K02: Understand the role of non-technical aspects and consequences of interior design and design of work spaces, and especially the influence on the surrounding space and the associated responsibility for decisions.
PEK_K03: Understand the importance of the design of work spaces and its impact on quality of life of contemporary society.

CURRICULUM CONTENT		
Mode of teaching - lectures		**Number hours**
Lec1	Organizational meeting, justification of the need to complete the course	1
Lec2	Work in the past and present, history and the interdisciplinary nature of ergonomics	1
Lec3	Anthropometric features, percentile measures, demographic trends	1
Lec4	Man as the measure for creating rooms and work spaces	1
Lec5	Ergonomics and physiology of sitting, working in a seated position	1
Lec6	Working surfaces, diversified functional arrangements and levels of work	1
Lec7	Basic types of work and workplaces.	1
Lec8	Ergonomics of storage furniture in the work environment	1
Lec9	Work comfort vs rooms microclimate	1
Lec10	Influence of daylight and artificial light on the comfort of work	1
Lec11	Psychological aspects of the work environment	1
Lec12	Operational Health and Safety issues	1
Lec13	Technical aspects vs work quality	1
Lec14	Housework, their specificity and the role in the household	1

Lec15	Work spaces vs. the legislation in Poland and other countries	1
	Total hours	**15**

Mode of teaching - project		**Number hours**
Pr1	Scope of the project, course completion requirements, literature. Overview of backgrounds and choice of project topics (single rooms). Assignment of design topics to students.	3
Pr2	In-class assignment: functional program, conceptual sketch of the interior, scheme of functional zones, communication layout and interior composition (functional arrangement, mood and decor of the interior). Axonometric drawings or perspective of the whole development. Graphical technique of the student's choosing.	3
Pr3	Review of the in-class assignment. Analysis of the topics: functional programming, schemes of relations between main functional zones in the project. Consultations.	3
Pr4	Preliminary concept of the functional and spatial solution of interior. Functional diagrams. Black and white graphic. Consultations.	3
Pr5	Functional and spatial concept of interior, specialist equipment, determining the mood and decor, projections, typical cross sections, axonometric and perspective drawings. Black and white graphic. Consultations.	3
Pr6	Review of work, class presentation and discussion.	3
Pr7	Functional and spatial concept of interior, specialist equipment, determining the mood and decor, projections, typical cross sections, axonometric and perspective drawings. Black and white graphic. Consultations.	3
Pr8	Detailed functional and spatial concept of interior, specialist equipment, determining the mood and decor, projections, cross sections, axonometric and perspective drawings. Black and white graphic. Consultations.	3
Pr9	Detailed functional and spatial concept of interior, projections, specialist furnishings, sections, axonometric and perspective drawings. Samples of color and choice of materials. Consultations.	3
Pr10	Review of work, class presentation and discussion.	3
Pr11	Functional and spatial concept of an interior. Ergonomic analysis of a s selected fragment of the project in the relation man – technical product. Samples of color and choice of materials. Consultations.	3
Pr12	Functional and spatial concept of an interior. Ergonomic analysis of movement and maneuvering space of people working. Samples of color in selected fragment of the project. Consultations.	3
Pr13	Functional and spatial concept of an interior - axonometric drawings and perspective. Colors of interiors, principles of graphical presentation. Consultations.	3
Pr14	Colors of interiors, detail, principles of graphical presentation and composition of project panels. Consultations.	3
Pr15	Submission of final project, A3 format. Assessment and credit.	3
	Total hours	**45**
TEACHING TOOLS		
N1. for lectures: Expository lecture, multimedia presentation, problem-solving lecture N5 for project: project presentations, case study, consultation		

ASSESSMENT OF ACHIEVEMENT OF LEARNING OUTCOMES

Assessment (F – formative (during the semester), S – summative (at the end of semester)	Number of learning outcome	Method of assessing the achievement of learning outcome

F1	K2AiU_W01, K2AiU_W02, K2AiU_U01, K2AiU_K01, K2AiU_K03	Written test covering lecture topics - $\alpha_{1=}0,1$
F2	K2AiU_W01, K2AiU_W02, K2AiU_W08, K2AiU_U04, K2AiU_K03	Assessment of the content quality of the project - $\alpha_{2=}0,6$
F3	K2AiU_W01, K2AiU_W02, K2AiU_U01, K2AiU_U04, K2AiU_K03	Assessment for the presentation of problems covered by the project - $\alpha_{3=}0,1$
F4	K2AiU_W01, K2AiU_W04, K2AiU_U04	Assessment for graphic design of the project $\alpha_{4=}0,2$
$P1 = \alpha_1 F1 + \alpha_2 F2 + \alpha_3 F3 + \alpha_4 F4$ gdzie $\alpha_1=0.1$; $\alpha_2=06$; $\alpha_3=01$; a4=02; $\Sigma\alpha = 1$ P1 - Project attendance and final grade for project (weighted average: for projects – 60% , for presentations 10% and graphical appeal 20% and the final written test covering the lectures – 10%).		

BASIC AND ADDITIONAL LITERATURE

BASIC LITERATURE:

[1] **Gedliczka A**., Atlas miar człowieka, CIOP 2001
[2] **Neufert E**., Podręcznik projektowania architektoniczno-budowlanego, Arkady, 1995
[3] **Olszewski J**., Podstawy ergonomii i fizjologii pracy, Wydawnictwo Akademii Ekonomicznej w Poznaniu 1997
[4] **Ramsey Ch**., Architectural Graphic Standards, John Willey & Sons, 1988
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[3] **Tilley A**., The measure of man and woman, Whitney 2001
[4] **Zeugner G**., Barwa i człowiek, Arkady 1965

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COURSE INSTRUCTOR (NAME, SURNAME, E-MAIL)

Dr inż. arch. **Przemysław Nowakowski**, przemysław.nowakowski@pwr.wroc.pl

EQUIVALENCY MATRIX OF LEARNING OUTCOMES FOR COURSE
DESIGN STUDY: WORKPLACE ERGONOMICS
WITH THE LEARNING OUTCOMES FOR ARCHITECTURE AND URBAN PLANNING MAJOR

Course learning outcome	Relation of course outcome with learning outcomes formulated for the major	Course objectives	Curriculum content	Number of teaching tool
PEk_W01	K2AIU_W01, K2AIU_W02	C1, C2, C3	Lec1 – Lec15	N1

PEk_W02	K2AIU_W01, K2AIU_W02	C1, C2, C3	Lec3 – Lec14	N1
PEk_W03	K2AIU_W01, K2AIU_W02,	C1, C2, C3, C4, C5, C6, C7	Lec2, Lec15	N1
PEk_W04	K2AIU_W02, K2AIU_W03	C1, C2, C3, C4, C6, C7	Lec3 – Lec7, Lec9, Lec10, Lec12, Lec 14, Lec15	N1
PEk_W05	K2AIU_W01, K2AIU_W02, K2AIU_W04	C1, C2, C3, C4, C5, C6, C7	Lec2, Lec4, Lec11 – Lec13, Lec15	N1
PEk_U01	K2AIU_U01, K2AIU_U03, K2AIU_U04	C1, C2, C3, C4, C5, C6	Pr2 – Pr14, Lec2 – Lec15	N1, N5
PEk_U02	K2AIU_U01, K2AIU_U03, K2AIU_U04	C1, C2, C3, C4, C5, C6	Pr2 – Pr14, Lec2 – Lec15	N1, N5
PEk_U03	K2AIU_U01, K2AIU_U04, K2AIU_U04	C1, C2, C3, C4, C5,C6	Pr2 – Pr14	N5
PEk_U04	K2AIU_U01, K2AIU_U03	C1, C5, C6	Pr2 – Pr14	N5
PEk_K01	K2AIU_K02, K2AIU_K03,	C1, C2, C3, C4, C5	Pr2 – Pr14, Lec2 – Lec4, Lec11, Lec12	N1, N5
PEk_K02	K2AIU_K02, K2AIU_K03,	C5, C6	Lec2, Lec11, Lec12, Lec15	N1
PEk_K03	K2AIU_K04,	C6	Lec1 – Lec15	N1

Zał. nr 4 do ZW 33/2012

FACULTY OF ARCHITECTURE

COURSE SYLLABUS

Course title in Polish

DESING STUDIO: PSYCHOSOCIAL RERSEARCH IN URBAN PLANNING & DESIGN

Course title in English

DESING STUDIO: PSYCHOSOCIAL RERSEARCH IN URBAN PLANNING & DESIGN

Academic major (if applicable): Architecture and Urban Planning
Specialization (if applicable): …….. Urban Planning
Course level and study mode: second cycle, full-time
Course type: elective
Course code: AUA109550wP
Group of courses YES*

	Lecture	Tutorial	Lab	Project	Seminar
Number of contact hours	**15**			**45**	
Number of student workload hours				**120**	
Grading policy				**pass with grade**	
Mark (X) for final course in a group of courses				X	
ECTS points:				4	
including ECTS points for practical hours (P)				3	
including ECTS points for contact hours (CH)				1	

*delete as applicable

PREREQUISITES RELATING TO KNOWLEDGE, SKILLS AND OTHER COMPETENCIES

34. none

COURSE OBJECTIVES

C1 - Detailed overview of methods of and tools of psychosocial examinations, which can constitute basic tools for the participatory design, taking into account the specific needs and characteristics of potential or current users of proposed spaces.

C2: to acquaint students with structure of research tools.

C3 - Introduction to statistical and qualitative analysis of the obtained data and statistical inference with strict regard to applications in urban planning.

C4 - Indication of the practical application of research results and psychosocial analysis for urban design in specific conditions.

COURSE LEARNING OUTCOMES

Related to knowledge:

PEK_W01 - Demonstrate knowledge of the methods and tools of psychosocial research and analysis, possible to use in urban programming and urban

PEK_W02 - understand the essence of relationships between psychosocial research and design practice, in particular the practice of urban design

Related to skills:

PEK_U01 - Demonstrate the ability to identify quantitative and qualitative methods of social research and identify their specific purpose.

PEK_U02 - Create a plan for social studies appropriate to the specific urban design tasks.

PEK_U03 - Demonstrate the ability to design basic tools of social surveys: questionnaire or structured interview; to acquire the knowledge about the needs, attitudes and the opinion of individuals and communities, for whom they are designing.

Related to social competencies:

PEK_K01 - Demonstrate awareness of the need for dialogue with potential users of the proposed urban spaces

PEK_K02 - Understand the need to search for the best concepts of development of urbanized spaces not only on the side of professionals but also on the side of the community, for which the project is being prepared.

CURRICULUM CONTENT		
Mode of teaching - lectures		**Number of hours**
Lec 01	Introduction to the subject. Overview of objectives and key thematic areas.	1
Lec 02	Psychosocial research methods - formulating the research problem and research objectives	2
Lec 03	Psychosocial Research Methods - a brief discussion of quantitative and qualitative methods. Selection of appropriate methods in the context of specific goals.	2
Lec 04	Qualitative methods of psychosocial research. Overview of types, tools, characteristics and application with particular attention to the practice of urban design	2
Lec 05	Quantitative methods of psychosocial research. Overview as above	2
Lec 06	Construction of research tools I - interviews, observation, ethnography	2
Lec 07	Construction of research tools II - questionnaires, surveys, polls	2
Lec 08	Introduction to statistical and qualitative analysis of the obtained data	2
	Total hours	**15**

Mode of teaching - project		**Number of hours**
Pr 01	Scope of the project, course completion requirements, literature. Assignment of design topics to students. Overview of topics and choice of location of design task.	3
Pr 02	Analysis of the topic: identification of the most important project tasks and linking of these tasks to the need for surveying public opinion in the specified scope.	3
Pr 03	Synthesis of social determinants in the projected area. Deep demographic analysis.	3
Pr 04	Clear formulation of the research problem and the reasons and specific research questions, which we seek answer to	3
Pr 05	Summary of existing knowledge (results and methods of research) on topics of interest to the project group.	3
Pr 06	Overview of the possible methods and selection of the most accurate methods for the implementation of previously identified research issues.	3

Pr 07	Construction of tools 1	3
Pr 08	Construction of tools II, preparation of pilot study	3
Pr 09	Summary of submitted work Presentation of the effects of the use of tools in the pilot study. Consultations and discussion.	3
Pr 10	Construction of tools III, preparation and approval for proper study	3
Pr 11	Preparation for analysis of results. Overview of appropriate methods and procedures of drawing conclusions.	3
Pr 12	Preliminary presentation of results Consultations.	3
Pr 13	Presentation of the results of analysis and preliminary conclusions. Consultations.	3
Pr 14	Vision of linking conclusions from studies with a specific project task (urban). Discussion and preparation for the final presentation.	3
Pr 15	Presentation of the results of work (research results and application forms). Credit	**3**
	Total hours	**45**

TEACHING TOOLS
N1. **Expository lecture with elements of problem-solving lecture.** N2. multimedia presentations N3. **Interactive lecture.** N4. consultation

ASSESSMENT OF ACHIEVEMENT OF LEARNING OUTCOMES

Assessment (F – formative (during the semester), S – summative (at the end of semester)	Number of learning outcome	Method of assessing the achievement of learning outcome
F1		
P- Final grade for test, 100%		

Assessment (F – formative (during the semester), S – summative (at the end of semester)	Number of learning outcome	Method of assessing the achievement of learning outcome

F1	PEK_W01, PEK_U01, PEK_K01, PEK_K02	Written test - α_1=0,2
F2	PEK_U02, PEK_U03, PEK_K01, PEK_K02,	Assessment of the content quality of the project , method of presenting the research problem and implementation of the project - α_2=0,6
F3	PEK_W02	Evaluation of the final presentation and conclusion from research project - α_3=0,2
….		
…..		
$P = \alpha_1 F1 + \alpha_2 F2 + \alpha_3 F3$ where α_1=0,2, α_2=0,6, α_3=0,2 $\Sigma \alpha = 1$		

BASIC AND ADDITIONAL LITERATURE

BASIC LITERATURE:

[133] Zeisel J: *Inquiry by Design: Environment/Behavior/ Neuroscience in Architecture, Interiors, Landscape and Planning*, W. W. Norton & Co 2006

[134] Oppenheim A: *Kwestionariusze wywiady pomiary postaw,* Zysk i S-ka 2004

ADDITIONAL LITERATURE:

[1] Shaughnessy J, Zechmeister E: *Metody badawcze w psychologii*, GWP, Gdańsk 2008

[2] Groat L, Wang D: *Architectural research methods,* J. Wiley, New York 2002

COURSE INSTRUCTOR (NAME, SURNAME, E-MAIL)

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EQUIVALENCY MATRIX OF LEARNING OUTCOMES FOR COURSE

DESING STUDIO: PSYCHOSOCIAL RERSEARCH IN URBAN PLANNING & DESIGN

WITH THE LEARNING OUTCOMES FOR ARCHITECTURE AND URBAN PLANNING MAJOR

And Urban Planning Specialization

Course learning outcome	**Relation of course outcome with learning outcomes formulated for the major and concentration (if applicable)****	**Course objectives*****	**Curriculum content*****	**No. of teaching tool*****
PEK_W01 (knowledge)	K2AiU_W01 S2U_W05 S2U_W11	C1 C4	Lec01-07 Pr02-15	N1-4
PEK_W02	K2AiU_W01 S2U_W05 S2U_W11	C1 C3 C4	Lec01-08 Pr04 Pr06 Pr12-15	N1-4
PEK_U01 (skills)	K2AiU_U01 S2U_U02	C1 C3 C4	Lec02-05	N1-4
PEK_U02	K2AiU_U01 K2AiU_U05 S2U_U02 S2U_U12	C1 C2 C4	Lec02-05 Pr02-06	N1-4
PEK_U03	K2AiU_U01 K2AiU_U05 S2U_U02 S2U_U12 S2U_U14	C1 C2 C3	Lec06-08 Pr07-15	N1-4
PEK_K01 (competencies)	K2AiU_K03 K2AiU_K04 S2U_K02	C1 C4	Lec01 Pr14 Pr15	N1-4
PEK_K02	K2AiU_K03 K2AiU_K04 S2U_K03	C4	Lec01 Pr14 Pr15	N1-4

** - enter symbols for learning outcomes related to the academic concentration/specialization

*** - from the table above

FACULTY OF ARCHITECTURE

COURSE SYLLABUS

DESIGN STUDY: PROBLEMS OF CONSERVATION OF ARCHITECTURAL HERITAGE

Course title in English Problems of conservation of architectural heritage - design studies

Academic major: **ARCHITECTURE AND URBAN PLANNING**

Study cycle and study mode: Second cycle, full-time / part-time

Course type: elective

Course code AUA107684wP

Group of courses YES

	Lecture	Tutorial	Lab	Project	Seminar
Total number of contact hours	15			45	
Number of student workload hours				120	
Grading policy				pass with grade	
Mark (X) for final course in a group of courses				X	
ECTS points:				4	
including ECTS points for practical hours (P)				3	
including ECTS points for contact hours (CH)				1	

PREREQUISITES RELATING TO KNOWLEDGE, SKILLS AND OTHER COMPETENCIES

1. KNOWLEDGE:

General knowledge of architectural design in historic centers

General knowledge of concepts and definitions related to aesthetics, styles, history architecture

2. SKILLS:

Skills in collecting materials, preparing and presenting architectural ideas, lanscaping features and sculptures

COURSE OBJECTIVES

C1 - To introduce students to selected concepts and implementations related to the problems of heritage protection, conservation and non-conservation activities

C2 - To acquaint students with selected architectural implementations located in the context of a diversified cultural landscape,

C3 - To present examples of historic structures, to discuss basic heritage protection methods,

C4 - To introduce students to methods of diplaying museum exhibits, etc. directly in Wrocław, in Poland and in the European Union

C5 - To present problems related to the reconstruction, conservation, transfer, restitution, change in function, color and elevation surface, etc. of historic structures

C6 - To equip students with skills in characterizing and defining concepts and problems related to conservation and non-conservation activities

C7 - To prepare students to implement architectural designs of forms, details and other structures in the context of historic centers, historic architectural structures, archaeological and architectural reserves, etc.

C8 - To present basic criterions for designing architecture which is introduced into ensembles of historic centers

C9 - To present basic criterions for designing architecture which is introduced into ensembles of city centers

C10 - To equip students with skills in preparing and presenting designs of architectural detail, forms, landscaping features, greenery, conservation plans for historic buildings, historic interiors, and scientific bibliography

C11 - To interpret the influence of different conservation and non-conservation activities on the cultural landscape, the social interpretation of historic sites, the authenticity of architectural structures, etc.

C12 – To solidify the knowledge on main stylistic trends in local art, relationship between painting, scultpure and architecture, to analyze architectural detail and ornament

COURSE LEARNING OUTCOMES

Related to knowledge:

PEK_W01 demonstrate knowledge of the system of conservation and non-conservation activities (related to the reconstruction, conservation, relocation, restitution, change in function, color and elevation surface, etc. of historic structures) and the roles of conservation guidelines in the development process of a historic structure, ensemble or landscape

PEK_W02 understand the notions of: integration, recomposition, retrowersja, restoration, revitalization, unveiling, conservation, structure relocation, restitution and can provide examples of such in Wrocław, Poland or Europe

PEK_W03 list examples of translation and relocation of historic architectural structures

PEK_W04 recognize stylistic features of tented roofs and other roof ornaments (spirelets, pinnacles, spires) and list examples or original cupolas in contemporary buildings in Wrocław

PEK_W05 demonstrate general knowledge and identify the time period of heritage sites based on architectural detail, paint layer, display methods, and finishing materials of elevations

PEK_W06 identify the methods of presenting architectural-archaeological and archaeological relicts and list examples of architectural-archaeological reserves in Wrocław or Poland

PEK_W07 identify and describe methods of illuminating architectural structures in the past and in contemporary times

PEK_W08 demonstrate knowledge of methods of diplaying museum exhibits, etc. directly in Wrocław, in Poland and in the European Union

PEK_W09 describe basic methods of urban interior design, in particular in the period of Baroque, identify them in field studies and describe the methods of protecting them

Related to skills:

PEK_U01 describe contemporary methods of museum displays based on in situ presentation of exhibits in: Museum of Architecture, National Museum and Historical Museum of the city of Wrocław in the Royal Palace

PEK_U02 examine and describe the advantages and disadvantages of new architecture in a historical context (frontage, allotment, building shape, architectural composition, types of window openings and architectural detail solutions)

PEK_U03 identify methods of depicting sepulchral art presented in situ in a historical context - plate, tombstone, modern tombs and epitaphs

PEK_U04 describe contemporary and historic solutions of green areas in urban interiors, and, based on examples of green areas in four-sided porticos and gardens presented in lectures, describe the methods of displaying sculptures and other landscaping features

PEK_U05 design or propose methods of illuminating architectural structures

PEK_U06 apply principles of writing research papers, construct research paper outlines, apply citations, prepare a reference list

PEK_U07 - prepare architectural designs of forms, details and other structures in the context of historic centers and historic architectural structures, archaeological and architectural reserves, etc.
PEK_U08 prepare and present the results of their design work (drawing or multimedia presentation) in a clear and evocative manner.
PEK_U09 in their designs, apply the basic criterions for designing architecture which is introduced into ensembles of historic centers
PEK_U10 in their designs, apply the basic criterions for designing architecture which is introduced into ensembles of city centers

Related to social competencies:

PEK_K01 understand the role of the conservator in the society and the value of heritage sites
PEK_K02 acknowledge the role of the impact of architectural design on the cultural environment and landscape
PEK_K03 acknowledge the importance of creating and implementing conservation guidelines in historic urban and architectural ensembles
PEK_K04 adhere to the principles of professional ethics and professional conduct
PEK_K05 work in a team and are prepared for interdisciplinary cooperation

CURRICULUM CONTENT

Mode of teaching - lectures		**Number of hours**
Lec1	Scope of the lecture, course completion requirements, literature. Introduction to designing buildings of archaeological-architectural reserves. Entrance to the Cathedral of St. John in Wrocław- overview of conservation activities in chapels, aisle and outside the facility, presentation of the architectural-archaeological reserve in the cathedral crypt. Entrance to the Church of St. Cross, overview of problems related to the reconstruction of Cathedral Island after World War II Introduction to designing green areas in the context of historic urban ensembles	1
Lec2	Continuation of the topic related to designing building and structures in archaeological-architectural reserves - field trip to the Romanesque House and crypt under the church of St. Vincent- presentation of archaeological artifacts. Introduction to the topic related to characteristics of historic interiors- overview of contemporary pieces of religious art Field trip to the four-sided portico in the Ursuline convent- continuation of the topic related to designing green areas Field trip to the Piast Mausoleum in the Ursuline convent- introduction to the topic related to designing contemporary forms of sepulchral art Field trip to the courtyards of the Ossolineum- continuation of the topic related to designing green areas Presentation and overview of the unveilings in the Old Town in Wrocław	1
Lec 3	Introduction to the main University building – overview of problems related to secular historic interiors- the Leopoldinum Hall, Oratorium Marianum- issues related to reconstruction conservation, copying.	1

	Alternatively: Introduction to the Historic Museum of the City of Wrocław- – lecture on the problems related to secular historic interiors, overview of various problems related to museum displays, adaptation, extension of historic architectural structures, continuation of lecture on designing green areas	
Lec 4	Entrance to the Churches of St. Elizabeth and St. Mary Magdalene- overview of issues related to reconstructing or designing contemporary forms of tented roofs and finials, the role of dominant and subdominant in the panorama of the city. Continuation of the topic related to designing religious art and overview of sepulchral art. Overview of problems related to colors in church interiors Overview of forms of architectural detail using examples from the Old Town in Wrocław	1
Lec 5	Introduction to the Archaeological Museum - overview of various problems related to museum displays, adaptation, extension of historic architectural structures, continuation of the lecture on designing green areas in the context of the historic site	1
Lec 6	Field trip to the ensemble of Baroque post-Jesuit buildings in Wrocław. Baroque urban interior, transformations of the urban space in the founded city in the period of Baroque. Rules of composition. Criterions of heritage protection.	1
Lec7	The Old Town in Wrocław. Field trip. Analysis of contemporary architecture. Presentation of basic criterions for designing architecture which is introduced into ensembles of historic centers	1
Lec 8	Ensemble of the city center in Wrocław. Field trip. Analysis of contemporary architecture. Presentation of basic criterions for designing architecture which is introduced into ensembles of city centers	1
Lec 9	Field trip to the National Museum in Wrocław. Overview of the methods of displaying collections. Tour of the museum, Silesian art 14th to 20th century, Polish Painting 18th to 20th century Overview of the main stylistic trends in local art, relationship between painting, sculpture and architecture, analysis of detail and ornament	1
Lec10	Presentation of the basic principles of preparing a formal description of a building, a stylistic and structural analysis, basis of iconographic and iconological analysis.	1
Lec11	Presentation of basic principles of writing a research paper, methods of using citations, methods of bibliographic research and principles of creating a reference list.	1
Lec 12	Introduction to the Church of the Holy Name od Jesus. Baroque sacral interior, formal features and iconographic content. Trompe l'oeil. Presentation of other examples from the region of Lower Silesia.	1
Lec 14	Lecture on selected architectural designs related to the problems of heritage protection, conservation and non-conservation activities	1
Lec 14	Lecture on lighting and illumination of historic sites. Field trip to the Cathedral Island and Sand Island in Wrocław	1
Lec 15	Lecture on selected architectural designs related to the problems of heritage protection, conservation and non-conservation activities - continued	1

	Total hours	**15**

Mode of teaching - project		**Number of hours**
Pr1	Scope of the project, course completion requirements, literature. Assignment of individual design topics to students.	3
Pr2	Overview and summary of the problems associated with the design of an archaeological-architectural pavilion Students' individual project work.	3
Pr3	Overview and summary of the problems associated with the design of green areas in four-sided porticos. Students' individual project work.	3
Pr4	Overview and summary of the problems associated with the design of a ducal tomb. Students' individual project work.	3
Pr5	Overview and summary of the problems associated with the design of tented roof of a selected structure. Students' individual project work.	3
Pr6	Overview and summary of the problems associated with the designs of architectural details. Students' individual project work.	3
Pr7	Overview and summary of the problems associated with bibliographic exercises. Students' individual project work.	3
Pr8	Overview and summary of the problems associated with exercises in formulating conservation plans of historic buildings. Students' individual project work.	3
Pr9	Overview and summary of the problems associated with exercises in formulating conservation plans of interiors of historic buildings. Students' individual project work.	3
Pr10	Overview and summary of the problems associated with the projects. Students' individual project work.	3
Pr11	Overview and summary of the problems associated with the projects. Students' individual project work.	3
Pr12	Overview and summary of the problems associated with the projects. Students' individual project work.	3
Pr13	Overview and summary of the problems associated with the designs of illumination of selected historic sites. Students' individual project work.	3
Pr14	Overview and summary of the problems associated with the projects. Students' individual project work.	3
Pr15	Presentation and submission of final projects. Credit	3
	Total hours	**45**

TEACHING TOOLS
N1. expository lecture, N2. multimedia presentation,

N3. problem-solving lecture on the premises of selected historic secular and religious sites, museums and urban ensembles od the city center and the Old Town in Wrocław and on the premises of the Faculty of Architecture
N4. problem-solving discussion
N5. case study
N6. consultation

ASSESSMENT OF ACHIEVEMENT OF LEARNING OUTCOMES

Assessment (F – formative (during the semester), S – summative (at the end of semester)	Number of learning outcome	Method of assessing the achievement of learning outcome
F1	PEK_W01, PEK_W03,PEK_W06,PEK_W08 PEK_U01, PEK_U02, PEK_U03, PEK_U07, PEK_U08, PEK_U09, PEK_U10 PEK_K01-05	Alternatively: a design of a contemporary form of ducal tomb which combines the historic fragment of the structure with a modern style or a design of a contemporary pavilion for displaying archaeological-architectural artifacts on Cathedral Island
F2	PEK_W01, PEK_W04, PEK_W07 PEK_U02, PEK_U07, PEK_U08, PEK_U09, PEK_U10 PEK_K01-05	Alternatively: a design of illumination of a selected historic site or a design of a contemporary tented roof on a selected historic structure
F3	PEK_W01, PEK_W03, PEK_W04 PEK_U02, PEK_U04, PEK_U07, PEK_U08, PEK_U09, PEK_U10 PEK_K01-05	Alternatively: a design of a contemporary architectural detail for a selected historic site or a design of a contemporary solution for greenery in a four-sided portico of a selected site
F4	PEK_W01- 05 PEK_U02, PEK_U06 PEK_K01-05	Project assignment: bibliographical study
F5	PEK_W01- 05 PEK_U02, PEK_U06, PEK_U08, PEK_U09, PEK_U10 PEK_K01-05	Project assignment: description of a historic building
F6	PEK_W01- 05, 09 PEK_U02, PEK_U06, PEK_U08, PEK_U09, PEK_U10 PEK_K01-05	Project assignment: description of a historic interior
P = average of formative grades (F1+F2+F3+F4+F5+F6):6		

BASIC AND ADDITIONAL LITERATURE

BASIC LITERATURE:

[50] *Atlas architektury Wrocławia,* red. J. Harasimowicz, t.1, 2, Wrocław 1997, 1998.

[51] L.Antkowiak, Ulice i place Wrocławia, Wrocław 1970.

[52] G.C.Argan,, Europa des Capitales, Lussona 1964.

[53] R.Arnheim, The dynamics of architectural form, Berkelay 1977.

[54] G.Astegno, Town Planning, [w:] Encyclopedy of World Art, T.XIV, London 1967,

[55] L.Benevolo, Storia del architettura del rinascimento, Bari 1973.

[56] L.Benevolo, Storia della citta, Bari 1975.

[57] K. Bimler, Die ehemalige Kaiserburg in Breslau, Breslau 1933.

[58] K. Bimler, Die schlesischen massiven Werbauten, Furstum Breslau, Breslau 1940.

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[61] O.Czerner, Wrocław na dawnej rycinie, Wrocław 1989.

[62] K.Degen, Die Bau- und Kunstdenkmak\ler des Landkreiss Breslau, Frankfurt am Mein 1965.

[63] G.Dehio, Handbuch der deutschen Kunstdenkmaler, Berlin 1924.

[64] J.Długoborski, J.Gierowski, K.Maleczynski, Dzieje Wrocławia do 1807 r., Warszawa 1958

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[66] id., Uniwersytet Wrocławski. Aula Leopoldina, Kraków 1967 (wyd.2).

[67] id., Uniwersytet Wrocławski, Wrocław 1972.

[68] id.,Christophoro Tausch uczeń Andrei Pozza, Wrocław 1994.

[69] id., Józefińska królewska Akademia Rycerska w Legnicy, [w:] Szkice Legnickie, Wrocław 1985, s. 160 - 180.

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[71] R. Eysymontt, Studium historyczno – urbanistyczne centrum Legnicy, Wrocław 1989, mps. w zbiorach Konserwatora Miejskiego Legnicy.

[72] R.Eysymontt, Kod genetyczny miasta, Wrocław 2009

[73] S.Giedon, Przestrzeń, czas, architektura. Narodziny nowej tradycji, Warszawa 1968.

[74] W. Ostrowski, Rewaloryzacja zabytkowych zespołów urbanistycznych.

[75] W. Ostrowski, Zespoły zabytkowe a urbanistyka, Warszawa 1980.

[76] B. Rymaszewski, O przetrwanie dawnych miast, Warszawa 1984.

[77] E. Małachowicz, Konserwacja i rewaloryzacja architektury w zespołach i krajobrazie, Wrocław 1994.

[78] Miłobędzki, Polska szkoła konserwatorska, "Arka" 1: 1994, nr 49, s. 131-141.

[79] Ch. Norberg-Schulz, Znaczenie w architekturze zachodu, Warszawa 1999.

[80] B.Zevi, Saper vedere l'urbanistica, Torino 1960.

ADDITIONAL LITERATURE:

[81] J.van Acker, Belgique baroque et classique, 1600- 1789, Bruxelles 1972.

[82] G.C.Argan, La retorica e l'arte barocca i Retorica e architettura, [w:] Dal Bramante al Canova, Roma 1970, s. 167 - 189.

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[91] id., Nysa, Studia z historii budowy miast, Prace Instytutu Urbanistyki i architektury, Warszawa 1957, s. 181 - 209.
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COURSE ADVISOR (NAME, SURNAME, E-MAIL)
Professor Grażyna Balińska, grazyna.balinska@pwr.wroc.pl

EQUIVALENCY MATRIX OF LEARNING OUTCOMES FOR COURSE

DESIGN STUDY: PROBLEMS OF CONSERVATION OF ARCHITECTURAL HERITAGE

WITH THE LEARNING OUTCOMES FOR ARCHITECTURE AND URBAN PLANNING MAJOR

Efekt kształcenia	Relation of course outcome with learning outcomes formulated for the major	Course objectives	Curriculum content	Number of teaching tool	Assessment method
PEK_W01	**K1AIU_W01, K1AIU_W10, K1AIU_W22**	C1- C12	Wy1-Wy15, Pr1- Pr15	N1-6	P1
PEK_W02	**K1AIU_W01, K1AIU_W10, K1AIU_W15, K1AIU_W22**	C1- C3, C5-C9,C11-C12	Wy1-Wy15, Pr1-Pr15	N1-6	P1
PEK_W03	**K1AIU_W01, K1AIU_W10, K1AIU_W22**	C1- C3,C5-C6,C11,C12	Wy1, Wy13,Wy14,Wy15	N1-6	P1
PEK_W04	**K1AIU_W01, K1AIU_W10, K1AIU_W11, K1AIU_W13, K1AIU_W15, K1AIU_W22**	C1-C3,C5-C6,C10-C12	Wy1-Wy15, Pr5, Pr10-Pr12,Pr14-Pr15	N1-6	P1
PEK_W05	**K1AIU_W01, K1AIU_W10, K1AIU_W13, K1AIU_W22**	C1- C3,C5-C6,C11,C12	Wy1-Wy15	N1-6	P1
PEK_W06	**K1AIU_W01, K1AIU_W10, K1AIU_W15, K1AIU_W22**	C1-C12	Wy1,Wy2,Wy13-Wy15, Pr2,Pr10-Pr12,Pr14- Pr15	N1-6	P1
PEK_W07	**K1AIU_W01, K1AIU_W10, K1AIU_W22**	C1-C3, C6-C11	Wy1, Wy13- Wy15,Pr10-Pr15	N1-6	P1
PEK_W08	**K1AIU_W01 K1AIU_W10 K1AIU_W11 K1AIU_W15 K1AIU_W22**	C1,C2,C4	Wy1,Wy3,Wy5,Wy9,Wy13,Wy15	N1-6	P1
PEK_W09	**K1AIU_W01, K1AIU_W10, K1AIU_W11, K1AIU_W22, K1AIU_W12, K1AIU_W15, K1AIU_W19**	C1, C2, C3, C6-C11	Wy6, Wy12 Pr8, Pr9,	N1-6	F5, F6 P1
PEK_U01	**K1AIU_U01, K1AIU_U11, K1AIU_U14, K1AIU_U15, K1AIU_U23, K1AIU_U24**	C1,C4	Wy1-Wy2, Wy5,Wy12,Wy13,Wy15	N1-6	P1
PEK_U02	**K1AIU_U01, K1AIU_U11, K1AIU_U14, K1AIU_U15, K1AIU_U23, K1AIU_U24**	C1-C3,C5- C12	Wy1-Wy15, Pr1-Pr15	N1-6	P1
PEK_U03	**K1AIU_U01, K1AIU_U11, K1AIU_U14, K1AIU_U15, K1AIU_U23, K1AIU_U24**	C1-C3,C5-C7,C10	Wy1-Wy15,Pr4, Pr10-Pr12,Pr14-Pr15	N1-6	P1
PEK_U04	**K1AIU_U01, K1AIU_U11, K1AIU_U14, K1AIU_U15, K1AIU_U23, K1AIU_U24**	C1-C3, C10-C12	Wy1-Wy15, Pr3, Pr10-Pr12,Pr14-Pr15	N1-6	P1

PEK_U05	**K1AIU_U01, K1AIU_U12 , K1AIU_U13, K1AIU_U14 , K1AIU_U23**	C1-C3, C6,C7, C11-C12	Wy6,Wy10-Wy12, Pr7-Pr12,Pr14-15	N1-6	F2
PEK_U06	**K1AIU_U01, K1AIU_U11, K1AIU_U14**	C1,C6,C11	Wy1-Wy15, Pr1-Pr15	N1-6	F4,F5,F6
PEK_U07	**K1AIU_U12, K1AIU_U13, K1AIU_U14, K1AIU_U18, K1AIU_U22, K1AIU_U23, K1AIU_U25**	C1,C5-C7,C10,	Pr1-Pr15	N2,4,5,6	P1
PEK_U08	**K1AIU_U12, K1AIU_U13, K1AIU_U14, K1AIU_U18, K1AIU_U22, K1AIU_U23, K1AIU_U25**	C1,C7,C10	Pr1-Pr15	N2,4,5,6	P1
PEK_U09	**K1AIU_U12, K1AIU_U13, K1AIU_U14, K1AIU_U15, K1AIU_U18, K1AIU_U22, K1AIU_U23, K1AIU_U25, K1AIU_U26**	C1, C8	Pr1-Pr15	N2,4,5,6	P1
PEK_U10	**K1AIU_U12, K1AIU_U13, K1AIU_U14, K1AIU_U15, K1AIU_U18, K1AIU_U22, K1AIU_U23, K1AIU_U25, K1AIU_U26**	C1, C9	Pr1-Pr15	N2,4,5,6	P1
PEK_K01	**K1AIU_K01, K1AIU_K02, K1AIU_K07, K1AIU_K09**	C1-C6, C8-C9,C11-C12	Wy1 – Wy15, Pr1-Pr15	N1-6	P1
PEK_K02	**K1AIU_K01, K1AIU_K02, K1AIU_K07, K1AIU_K08, K1AIU_K09**	C1-C6, C8-C9,C11-C12	Wy1-Wy15	N1-6	P1
PEK_K03	**K1AIU_K01, K1AIU_K02, K1AIU_K04 ,K1AIU_K07, K1AIU_K09**	C1-C6, C8-C9,C11-C12	Wy1-Wy15	N1-6	P1
PEK_K04	**K1AIU_U26, K1AIU_K03, K1AIU_K08**	C1-C12	Pr1-Pr15	N1-6	P1
PEK_K05	**K1AIU_K04, K1AIU_K08**	C6-C11	Pr1-Pr15	N1-6	P1

OTHER USEFUL INFORMATION ABOUT THE COURSE (optional)
During the course students visit selected historic sites and museums- if it is impossible to enter the site on a given day or in the semester, alternative solutions are proposed or there is a change in the course schedule. **For most students this is the first encounter in situ with particular sites and museums in Wrocław.**

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FACULTY OF ARCHITECTURE

COURSE SYLLABUS
DESIGN STUDY: MONUMENTAL ARCHITECTURE

Academic major: **ARCHITECTURE AND URBAN PLANNING**
Study cycle and study mode: Second cycle, full-time / part-time
Course type: elective
Course code AUA107687wP
Group of courses YES

	Lecture	Tutorial	Lab	Project	Seminar
Number of contact hours	15			45	
Number of student workload hours				120	
Grading policy				pass with grade	
Mark (X) for final course in a group of courses				X	
ECTS points:				4	
including ECTS points for practical hours (P)				3	
including ECTS points for contact hours (CH)				1	

PREREQUISITES RELATING TO KNOWLEDGE, SKILLS AND OTHER COMPETENCIES

35. Completion of all previous design courses

COURSE OBJECTIVES

C1 To introduce students to the problems of monumental architecture and equip them with tools which help to perceive monumental architecture and architecture as not only aesthetic and formal phenomena, but also as a social phenomena in a broad cultural context.
C2 To equip students with skills in identifying the relationship between spatial and social actions, an thus - the necessity to integrate knowledge of theory of architecture with cultural science, by means of self-education.

COURSE LEARNING OUTCOMES

Related to knowledge:
PEK_W01 Identify the role and problems of monumental architecture and its different aspects in relation to objects, buildings and urban space at a variety of scales.
PEK_W02 Demonstrate basic knowledge needed to understand the social circumstances of architectural work.
Related to skills:
PEK_U01 Perceive, analyze and interpret architecture as a phenomenon which is not only aesthetic and formal but also a social one, considered in a broad cultural perspective.
PEK_U02 Integrate knowledge of theory of architecture to build and develop design requirements in architecture.
PEK_U03 Identify further educational paths and carry out the process of self-learning.
Related to social competencies:
PEK_K01 Demonstrate awareness of the social relations and constraints of architecture and the consequences resulting from the cultural and historical context.
PEK_K02 Demonstrate an awareness and understanding of the importance of non-technical aspects and consequences of the architect's work and the responsibility for decisions.
PEK_K03 Understand the need for self-education.

CURRICULUM CONTENT

Mode of teaching - lectures		Number hours
Lec 1	Introduction to monumental architecture. Architects' views on monumentalism in architecture. Description of the adopted cognitive approach. Monumental architecture as a continuous phenomena. Three concepts of space by Siegfrid Giedion.	1
Lec2	Sensory „ideas" of space developed by archaic communities upper Paleolithic traveling space, archetypes of shapes, The Neolithic Era – model of symbolic space (toporov's universal sign complex – the abstract of the Tree of Heaven) - source of mutual homology of the time, spatial and social order of time-space of social mythopoetic communities. Ritual and myth. Radial space and its essence, basic binary oppositions encoded by the model: interior / exterior, top / bottom, center / edge. Introduction to the structural method; the idea of mythopoetic mind by Levi-Strauss. Opposites: nature / culture, metaphor / metonymy, harmony / melody, symbol / sign.	2
Lec 3	Model of symbolic space; Boundary as an invariant of monumental architecture; the sacred and the profane and their morphology. Monumentalization of boundaries. *Spatial aspect of sacrum*, its essence and sources in the context of the adopted method; the static concept of Eliade and dynamic concept of Czarnowski. Mobile and immobile manifestations of verticalism. Fetishes, totems, flags, lithic hierophanies, obelisks, Stonehenge, cosmic mountains: royal pyramids, Borobodur temple, statues of ancient Egypt, tholos tomb.	2
Lec 4	The ritual – ritualistic space complex and its examples. Meeting tent, Temple of Khonsu, Theban temple complex, structure of the Roman city. *Territorial religious unit of Czarnowski.*	2
Lec 5	Code, codification, social normativism. Topography of monumental architecture. *Monumental architecture of the center, the boundaries and zero-degree monumental architecture.* Monumentalization. Transgressions and retrogressions. Monumental and monumentalising architecture.	2
Lec 6	The ritual – ritualistic space complex - continued. Hadrian's pantheon. Summary - morphology of boundaries in space.	2
Lec 8	The idea of circulation – Harvey, Smith and its representation in the city structure of the Enlightenment period. L'Enfant's and Ellicot's plans of the city of Washington. *Architecture parlante*. Boullée's monumentalization of empty space. Cenotaph for Sir Isaac Newton Uprooted rituals of revolutionary France. Transformations of European tradition - historism and avant-garde as reflections of transgression and retrogression. Historism versus monumentalising architecture H. R. Hitchock – *New Tradition* – architecture of authority. Modern movement and New Tradition movement as emblems of transgression and retrogression.	2
Lec 8	Symbolic ritualistic space of the uprooted ritual of totalitarian countries. Examples: commemoration of the 1st anniversary of the October Revolution by Altman, Speer's Cathedral of Light, Palace of the Soviets public contest - designs by Corbusier and Iofan. Nine points on monumentalism – Giedion, Léger, Sert. Modernity Art of the second avant-garde. Earth art and conceptualism. Architectural avant-garde of the seventies versus monumentalism – Superstudio, Archizoom, OMA. Zero-degree monumental architecture of modernity. Summary.	2
	Total hours	**15**

Mode of teaching - project		Number of hours
Pr1	Introductory meeting - information on the objectives and methods of organizing the project.	3
Pr2	In-class assignments 1 Consultations.	3

Pr3	In-class assignments 2 Consultations.	3
Pr4	In-class assignments 3 Consultations.	3
Pr5	Analysis of proposed locations and problems – preliminary choice of design topics.	3
Pr6	Review 1 - presentation and discussion.	3
Pr7	Clarification of topic, critiques.	3
Pr8	Critiques and consultations.	3
Pr9	Review 2 - presentation and discussion.	3
Pr10	Critiques and consultations - project modifications after review.	3
Pr11	Critiques and consultations.	3
Pr12	Review 3 - presentation and discussion.	3
Pr13	Critiques and consultations - project modifications after review.	3
Pr14	Critiques and consultations.	3
Pr15	Submission of projects – presentation with discussion	3
	Total hours	**45**

TEACHING TOOLS
N1. for lectures: multimedia presentation, problem-solving lecture N2. For project: project presentation, consultations, discussion

ASSESSMENT OF ACHIEVEMENT OF LEARNING OUTCOMES

Assessment (F – formative (during the semester), S – summative (at the end of semester)	Number of learning outcome	Method of assessing the achievement of learning outcome
F1	PEK_W01 PEK_U01 PEK_K01	Project review, discussion Assessment of the quality of the substance, intellectual value, presentation and graphical content
F2	PEK_W01 PEK_W02 PEK_U01 PEK_U02 PEK_K01 PEK_K02	Project review, discussion Assessment of the quality of the substance, intellectual value, presentation and graphical content
F3	PEK_W01 PEK_W02 PEK_U01 PEK_U02 PEK_U03 PEK_K01 PEK_K02 PEK_K03	Project review, discussion Assessment of the quality of the substance, intellectual value, presentation and graphical content
P - Final project assessment - weighted average of grades from three project reviews and the grade for the process of developing the solution for the project assignment.		

BASIC AND ADDITIONAL LITERATURE

BASIC LITERATURE:

[35] S. CZARNOWSKI, *Dzieła,* T. 3, *Podział przestrzeni i jej rozgraniczanie w religii i w magii,* Warszawa 1956.

[36] S. CZARNOWSKI, *Dzieła,* T. 3, *„Góra" i"Dół" w systemie kierunków sakralnych*, Warszawa 1956.

[37] M. ELIADE, *Sacrum, mit, historia*, Warszawa 1993.

[38] J. MAISSONNEUVE, *Rytuały dawne i współczesne*, Gdańsk 1995.

[39] YI-FU-TUAN, *Przestrzeń i miejsce*, Warszawa 1987.

[40] B. SZMIDT, *Ład przestrzeni*, Warszawa 1979.

[41] P. KRAKOWSKI, *Teoretyczne podstawy architektury wieku XIX*, Warszawa, Kraków 1979.

[42] J. KORDYS, Mózg i znaki, Warszawa 1991.

[43] R. SENNET, Ciało i kamień, Gdańsk 1996.

[44] M. CZERWIŃSKI, *Profile kultury*, Warszawa 1980.

[45] M. CZERWIŃSKI, *Przyczynki do antropologii współczesności,* Warszawa 1988.

[46] S. GIEDION, *The Eternal Present, Volume I*: The Beginnings of Art., London 1962,

[47] S. GIEDION, *Architecture and the Phenomena of transition*, Cambridge, Ma., 1971.

[48] *Sacrum i sztuka*, Kraków 1989, (materiały z konferencji).

[49] K. FRAMPTON, *Modern architecture – a critical history*, London 1985.

[50] F. PAWLICKI, *Skarby architektury starożytnego Egiptu, Królewskie świątynie w Deir*

[51] *el-Bahari*, Warszawa 2000.

ADDITIONAL LITERATURE:

[9] M. ELIADE, *Traktat o historii religii,* Warszawa 1993.

[10] M. LEŚNIAKOWSKA, *Co to jest architektura?*, Warszawa 1996.

[11] J. LUDWIŃSKI, *Epoka błękitu*, Kraków 2003.

[12] S. MORAWSKI, *Na zakręcie od sztuki do po – sztuki*, Kraków 1985.

COURSE ADVISOR (NAME, SURNAME, E-MAIL)

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EQUIVALENCY MATRIX OF LEARNING OUTCOMES FOR COURSE
DESIGN STUDY: MONUMENTAL ARCHITECTURE
WITH THE LEARNING OUTCOMES FOR ARCHITECTURE AND URBAN PLANNING MAJOR

Course learning outcome	Relation of course outcome with learning outcomes formulated for the major	Course objectives	Curriculum content	No. of teaching tool
PEK_W01 (knowledge)		C1,	Lec1 – Lec15 Pr1 – Pr15	N1, N2
PEK_W02	**K2AiU_W01**	C1, C2	Lec1 – Lec15 Pr1 – Pr15	N1, N2
PEK_U01 (skills)		C1, C2	Lec1 – Lec15 Pr1 – Pr15	N1, N2
PEK_U02	**K2AIU_U03**	C1, C2	Lec1 – Lec15 Pr1 – Pr15	N1, N2
PEK_U03	**K2AiU_U01**	C2	Lec1 – Lec15 Pr1 – Pr15	N1, N2
PEK_K01 (competencies)		C2	Lec1 – Lec15 Pr1 – Pr15	N1, N2
PEK_K02	**K2AIU_K03**	C1	Lec1 – Lec15 Pr1 – Pr15	N1, N2
PEK_K03	**K2AiU_K01**	C2	Lec1 – Lec15 Pr1 – Pr15	N1, N2

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FACULTY OF ARCHITECTURE

COURSE SYLLABUS

Course title in Polish DESIGN STUDY - DESIGNING PUBLIC SPACE.
Academic major: ARCHITECTURE AND URBAN PLANNING
Course level and study mode: second cycle, full-time/part-time
Course type: elective
Course code: AUA107703wP
Group of courses YES

	Lecture	Tutorial	Lab	Project	Seminar
Number of contact hours	15			45	
Number of student workload hours				120	
Grading policy				pass with grade	
Mark (X) for final course in a group of courses				x	
ECTS points:				4	
including ECTS points for practical hours (P)				3	
including ECTS points for contact hours (CH)				3	

*delete as applicable

PREREQUISITES RELATING TO KNOWLEDGE, SKILLS AND OTHER COMPETENCIES
36. Basic knowledge of spatial composition
37. Understanding of problems related to designing multifunctional centers and areas

COURSE OBJECTIVES

C1 – To introduce students to the problems of developing public space in cities and in the suburbs
C2 – to introduce students to the need to take into consideration the social and humanitarian values
C3 – To develop skills in using study materials, analyzing significant constraints of the natural, cultural and social, environment, to prepare studies and analyses, formulate briefs on their basis related to the scope of the functional and idea program.
C4 – To develop skills in preparing and formulating land use plans in the context of architectural structures, in relation with these structures and using landscaping features and urban detail.

COURSE LEARNING OUTCOMES

Related to knowledge:

PEK_W01: Demonstrate elementary knowledge of environmental circumstances of functioning of local community in urbanized space, identify trends in developing natural and cultural element of area development; creatively use this knowledge in designing based on environmental circumstances; substantiate the adopted solution; demonstrate skills in formulating design study in accordance with standards of project drawings.

PEK_W02: Demonstrate knowledge of performing pre-project studies and analysis of residential environment; create analytical study based on material studies and individual studies : properly classify important circumstances and environmental values (analyze them in the aspect of functional and spatial layout, the natural environment, cultural and social environment), appropriately evaluate them; clearly edit individual stages of analysis (resource, valorization, conclusions); creatively use conclusion of analysis to formulate briefs

PEK_W03: Analyze and interpret design solutions with regard to achieving the planned objectives of social development and accordance with the principles of sustainable development

Related to skills:

PEK_U01: Collect and apply knowledge of non-technical areas in solving design problems pertaining to public space at an urban and architectural scale.

PEK_U02: Apply contemporary techniques, multimedia and materials in presenting architectural concepts. Prepare project using computer aided design software and programs for multimedia presentations. Use appropriate computer aided design tools to simulate, design and verify elements.

Related to social competencies:

PEK_K01: Demonstrate an awareness and understanding of the importance of social aspects and consequences of designing public space and the associated responsibility for decisions.

PEK_K02: Understand the importance of the design of public space and its impact on quality of life of local communities.

CURRICULUM CONTENT

Mode of teaching - lectures		**Number of hours**
Lec1	Basic concepts. Definitions.	1 h
Lec2	Role of public space.	1 h
Lec3	Public space: possibilities and threats - 1	1 h
Lec4	Public space: possibilities and threats - 2	1 h
Lec5	Principles of creating good public space.	1 h
Lec6	Social circumstances of good public space.	1 h
Lec7	Public space: types, functions.	1 h
Lec8	Elements of public space.	1 h
Lec9	Contemporary trends in the development of public space.	1 h
Lec10	Stages of the process of creating a public space.	1 h
Lec11	Economic aspects of public space.	1 h
Lec12	Social participation in the designing process.	1 h
Lec13	Social participation in the spatial management process.	1 h
Lec14	Examples of good practices.	1 h
Lec15	test	1 h

	Total hours	**15**

Mode of teaching - project		**Number of hours**
Pr1	**a** - Introduction do the course topics: presentation of the objectives, project methods and trends in public space planning; overview and illustration of the problems of designing that takes into consideration the landscape, cultural and social values; course completion requirements and assessment criteria, list of literature of the subject and educational materials **b** - Introduction to Stage 1 - preliminary work and preparation of required materials and analysis	3
Pr2	**a** - Presentation made by students of the collected materials and photographs **b** - Overview of the problems of pre-project studies, methods of analysis, and the methods of creating and applying them in briefs	3
Pr3	**a** - Completion of In-class Assignment no 1, presentation of the results by students and discussion of results with special focus on the understanding of pre-project analysis method **b** - Individual work of students on conclusions of analysis	3
Pr4	**a** - Individual work of students on the analytical part (problem areas, problem tree, social structure of needs) **b** - Documenting the results of work and discussion.	
Pr5	**a** - Presentation made by students of the results of their work and discussion **b** - Introduction to stage 2 - work on the functional and spatial layout.	3
Pr6	**a** - Presentation made by students of the functional and spatial schemes and discussion **b** - Overview of the problems related to the function of public space	3
Pr7	**a** - Individual work by students on the functional and spatial scheme **b** - Overview of contemporary trends in developing public spaces.	3
Pr8	**a** - Completion of In-class Assignment no 2, presentation of the results by students and discussion of results **a** - Individual work of students on stage 3 - the concept	3
Pr9	**a** - Presentation made by students of the concept and discussion **b** - Individual work of students on the concept	3
Pr10	**a** - Individual work by students on stage 4 – public space development project **b** - Overview of contemporary trends in developing urban detail.	3
Pr11	**a** - Presentation of the working version of the land-use plan and discussion (with special focus on the appropriateness of chosen solutions). **b** - Individual work of students on the land development plan	3
Pr12	**a** - Completion of In-class Assignment no 3 (urban detail design), presentation of the results by students and discussion of results **a** - Individual work of students on stage 5 - detail design	3
Pr13	**a** - Individual work by students on the project	3

Pr14	**a** - Presentation of the working version of the public space project and discussion (with special focus on project graphics standards). **b** - Individual work of students on the project	3
Pr15	**a** - Presentation made by students and submission of the finished project and discussion **b** – credit	3
	Total hours	**45**

TEACHING TOOLS
N1. Expository lecture as part of the project. N2. Problem-solving lecture (with multimedia presentation or traditional) as part of the project. N3. Interactive project (in justified cases: concluded with notation of conclusions, documenting of the notation and publication on the website of the Department of Environmental Development) N4. Multimedia presentation (by students) as part of the project. N5. Learning about the project area through site visits and meetings with local residents N6. Development of the design concept N7. Preparation of project on paper or in digital form. N8. Project consultations N9. Project presentations N10. In-class assignment as part of the project.

ASSESSMENT OF ACHIEVEMENT OF LEARNING OUTCOMES

Assessment (F – formative (during the semester), S – summative (at the end of semester)	Number of learning outcome	Method of assessing the achievement of learning outcome
F1 – assessment of content quality of stage 1	PEK_W02, PEK_W03	test - $\alpha 1=1$
F2 – assessment of content quality of stage 2	PEK_W01, PEK_W03	Assessment of the content quality of the project - $\alpha_{1=}0,6$
F3 – assessment of content quality of stage 3	PEK_U01, PEK_K01	Assessment for the presentation of problems covered by the project - $\alpha_{2=}0,2$
F4 – assessment of content quality of stage 4	PEK_U02, PEK_K02	Assessment of the content quality of the project - $\alpha_{1=}0,6$
F5 – assessment of content quality of stage 5	PEK_U02, PEK_K02	Assessment for the presentation of problems covered by the project - $\alpha_{2=}0,2$
F6 – Assessment of content quality of work	PEK_U02, PEK_K02	Assessment for graphic design of the project $\alpha_{3=}0,2$
F7 - Final grade for project	PEK_U02, PEK_K02	Assessment for the presentation of problems covered by the project - $\alpha_{2=}0,2$

P 1= α1 F1 where α1=1, Σ α = 1
P 2= α1 F2 + α2F3 + α3F4, where α1=0,6, α2=02, α3=02, Σ α = 1

BASIC AND ADDITIONAL LITERATURE

BASIC LITERATURE:

[48] SANOFF H., 2000, Community Participation Methods in Design and Planning, John Willey and Sons, New York, USA
[49] CHAMBERS R., 2002, Participatory Workshops, EarthScan Londyn
[50] GZELL S., 1996, Fenomen małomiejskosci, Wydawnictwo Akapit DTP, Warszawa
[51] PAWŁOWSKA K., 2001, Percepcja krajobrazu i partycypacja społeczna w działaniach na rzecz krajobrazu [w] Pawłowska K. (red.); Architektura krajobrazu a planowanie przestrzenne, Praca zbiorowa; Politechnika Krakowska, Kraków
[52] PUTNAM R.D., 2008, Samotna gra w kręgle. Upadek i odrodzenie wspólnot lokalnych w Stanach Zjednoczonych. Wydawnictwa Akademickie i profesjonalne, Warszawa
[53] BETSKY A., 2008. Architektura poza budynkami, W: Z:A 4/08, Warszawa
[54] BUCZEK G., CHWALIBÓG A., CHWALIBÓG K., GAWLICKI M., GROCHULSKI J., KALISZEWSKI A., KICIŃSKI A., LENART J., ŚMIECHOWSKI D., WOLSKI P., 2008, Polska Polityka Architektoniczna - Polityka jakości krajobrazu, przestrzeni publicznej i architektury, Poznań
[55] DRYLL I., 2007, Diagnoza Społeczna 2007. Warunki i jakość życia Polaków - raport. J. Czapiński, T. Panek (red), Rada Monitoringu Społecznego, Warszawa
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[58] World class places. The Government's strategy for improving quality of place. Communities and Local Government, London, Crown 2009

ADDITIONAL LITERATURE:

[35] - relevant bills, legal acts and websites

COURSE ADVISOR (NAME, SURNAME, E-MAIL)

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EQUIVALENCY MATRIX OF LEARNING OUTCOMES FOR COURSE
DESIGN STUDY - DESIGNING PUBLIC SPACE.
WITH THE LEARNING OUTCOMES FOR ARCHITECTURE AND URBAN PLANNING MAJOR

Course learning outcome	Relation of course outcome with learning outcomes formulated for the major and specialization (if applicable)**	Course objectives***	Curriculum content***	No. of teaching tool***
PEK_W01 (knowledge)	K1AIU_W01, K1AIU_W07, K1AIU_W09,	C1	W1-W9	N1
PEK_W02	K1AIU_W01, K1AIU_W15,	C2	W8-W14	N2
PEK_W03	K1AIU_W01, K1AIU_W21, K1AIU_W23, K1AIU_W26,	C3, C4	W1-W14	N3
PEK_U01 (skills)	K1AIU_U08,K1AIU_U17, K1AIU_U19,	C2, C3	W5, W7, W8	N4, N5
PEK_U02	K1AIU_U08, K1AIU_U18, K1AIU_U19,	C1	W12	N6, N7, N10
PEK_K01 (competencies)	K1AIU_K02	C2	W12, W13	N5, N8
PEK_K02	K1AIU_K06, K1AIU_K08	C3	W14	N5, N7, N8

** - enter symbols for learning outcomes related to the academic concentration/specialization
*** - from the table above

FACULTY OF ARCHITECTURE

COURSE SYLLABUS

DESIGN STUDY: **HABITAT - DESIGNING RESIDENTIAL ARCHITECTURE**

Course title in English Habitat – Residential Architecture and Design
Academic major: **ARCHITECTURE AND URBAN PLANNING**
Course level and study mode: second cycle, full-time/part-time
Course type: elective
Course code AUA107692wP
Group of courses YES

	Lecture	Tutorial	Lab	Project	Seminar
Number of contact hours	15			45	
Number of student workload hours				120	
Grading policy				**pass with grade**	
Mark (X) for final course in a group of courses				x	
ECTS points:				4	
including ECTS points for practical hours (P)				3	
including ECTS points for contact hours (CH)				1	

PREREQUISITES RELATING TO KNOWLEDGE, SKILLS AND OTHER COMPETENCIES

1. KNOWLEDGE

Knowledge of technical problems related to designing and construction of architectural structures Knowledge of typology of residential single-family and multi-family architecture and typology of dwellings.

2. SKILLS:

Design single-family and multi-family residential complexes using basic types and layouts.
Draw freehand sketches of architectural solutions, develop variants of concepts and present their ideas in a public forum.Use specialized computer aided design software.

3. OTHER COMPETENCIES:

Students can take into consideration non-technical aspects of design, in particular the impact on the environment.

COURSE OBJECTIVES

C1 - To introduce students to the advanced problems of designing the residential environment.
C2 – To develop skills in expanding interdisciplinary knowledge, carrying out individual studies and analysis
C3 – To present problems of designing in the context of social and environmental problems
C4 - To introduce students to development prospects of residential architecture.
C5 – To develop skills in using a non-standard and creative approach to designing problems with consideration of the widest possible spectrum of constraints

COURSE LEARNING OUTCOMES

Related to knowledge:

PEK_W01 define the habitat and its constitutive features.
PEK_W02 appropriate define limit size parameters of the residential complex, define the scale of the complex, choose the number of apartments and inhabitants with account being taken of data related to environmental sociology and psychology .
PEK_W03 Characterize current and future trends in residential architecture with account being taken of social transformations and technological development.

Related to skills:

PEK_U01: Analyze the location in terms of existing social circumstances, urban layout, spatial and communication relations and architecture.
PEK_U02: Propose inspiring values of a place and characterize the emotional impact of the location (genius loci)
PEK_U03: Take into consideration the specificity of location in developing a residential complex with account being taken of the scale of surroundings, economic values of space, protecting the landscape and cultural values of the place.

PEK_U04: Define the residential structure and formulate functional program of the proposed complex with account being taken of individual needs and character of neighborhood community.
PEK_U05: Creatively develop spatial layouts of residential complexes, including experimental.
Related to social competencies:
PE_K01: Understand designing residential complexes as part of a comprehensive process of organization of man's living environment which in each case takes into consideration the individual needs and circumstances.
PEK_K02 :Demonstrate awareness of the social consequences of architectural design and the influence of the spatial environment on the quality of man's life, creating and function community. Understand the risks of solutions limited to the technical and economical aspects, excluding the social aspect.

CURRICULUM CONTENT		
Mode of teaching - lectures		**Number of hours**
Lec1	Introduction to Habitat design	2
Lec2	Humanization of residential complexes	2
Lec3	Habitats on water	2
Lec4	Social circumstances of designing residential complexes	2
Lec5	Architecture and technology in the organization of man's living environment	2
Lec6	Architecture and plastic arts in contemporary art - connections and disconnections	2
Lec7	Development of urban space.	2
Lec8	Habitats of tomorrow	1
	Total hours	**15**

Mode of teaching - project		**Number of hours**
Pr1	Overview of the form of the course, scope of the project, course completion requirements, literature. Self-presentation of students with focus on experience related to the residential environment. Personal interview on the selection of the location and profile of the proposed habitat.	2
Pr2	In-class work. Definition of the social structure of habitat. Need analysis. Formulating of functional program. Determining the limit magnitude parameters. Consultations.	2
Pr3	In-class work. Processing of data from site trip. Analysis of location conditions. Study of relationships. Identification of values and problems of the studies location. Variants of the concept of Land Development Plan Consultations.	2
Pr4	In-class work. conceptual sketch of land development, scheme of functional zones, communication system and development composition. Axonometric drawings or perspective of the whole development. Consultations.	2
Pr5	In-class work. Continuation of the Land Development Project-vehicular and pedestrian communication system, greenery and landscaping features. Terrain sections. Consultations.	2
Pr6	In-class work. Continuation of the Land Development Project-vehicular and pedestrian communication system, greenery and landscaping features. Terrain sections. Perspective. Approval of the Land-Use Plan. Consultations.	2

Pr7	In-class work. Preliminary concepts of functional and spatial solution of a development complex. Functional diagrams. Consultations.	2
Pr8	In-class work. Functional and spatial concept of a development, projections and typical sections. Consultations.	3
Pr9	In-class work. Functional and spatial concept of a development, projections and typical sections, cont. Consultations.	4
Pr10	Submission of project - presentation and discussion.	4
Pr11	In-class work. Functional and spatial concept of a development, structure, construction solutions cont. Consultations.	4
Pr12	In-class work. Functional and spatial concept of a development, creating the structural system. Consultations.	4
Pr13	In-class work. Functional and spatial concept of a development, interior perspectives. Consultations.	4
Pr14	In-class work. Functional and spatial concept of a development. Graphical presentation of the project. Consultations.	4
Pr15	Presentation and submission of project. Assessment and credit.	4
	Total hours	**45**

TEACHING TOOLS
N1. for lectures: multimedia presentation, N2. for project: consultations N3. for project: project presentation N4 for project : in-class work (hand drawing, work on the model, works in files deposited with the instructor after class)

ASSESSMENT OF ACHIEVEMENT OF LEARNING OUTCOMES

Assessment (F – formative (during the semester), S – summative (at the end of semester)	Number of learning outcome	Method of assessing the achievement of learning outcome
F1	PEK_W01. PEK_W02 PEK_W03 PE_K01 PEK_K02	Oral examination - $\alpha_{1=}1$
F2	PEK_U01 PEK_U02 PEK_U03 PEK_U04 PEK_U05	Assessment of the content quality of the project - $\alpha_{1=}0,6$
F3	PEK_U05:	Assessment of the presentation of the project, including the graphic design of the project $\alpha_{2=}0,4$
P 1= α_1 F1 where α_1=1, $\Sigma\ \alpha = 1$ P 2= α_1 F2 + α_2F3, where α_1=0,6, α_2=04, , $\Sigma\ \alpha = 1$		

P1 - Final grade for oral examination

P2 - Final grade for project (weighted average: for projects – 60% , for presentations and graphical appeal 40%).

BASIC AND ADDITIONAL LITERATURE

BASIC LITERATURE

[206] Neal P., *Urban villages – and the making of communities*, Spoon Press, Londyn 2003
[207] Sakamoto T., Hwang I., Ferre A. , *Total Housing: Alternatives to Urban Sprawl*, Actar, Barcelona – New York 2010
[208] Baranowski A. *Projektowanie zrównoważone w architekturze*, Wydawnictwo Politechniki Gdańskiej, Gdańsk 1998
[209] Schneider-Skalska G., *Kształtowanie zdrowego środowiska mieszkaniowego*, Wydawnictwo Politechniki Krakowskiej, Kraków 2004
[210] Misiak W., *Jakość życia w osiedlach miejskich*, Wydawnictwo Uniwersytetu Wrocławskiego, Wrocław 1993
[211] Alexander Ch., Ishikawa S., i in., *Język wzorców*, Gdańskie Wydawnictwo Psychologiczne, Gdańsk 2008
[212] Bell P.A., Greene T.C., Fisher J.D., Baum A. , *Psychologia środowiskowa*, Gdańskie Wydawnictwo Psychologiczne, Gdańsk 2004
[213] Newman O. *Creating Defensible Space*, U.S. Department of Housing and Urban Developent, Washington 1996.
[214] Mostafavi M., *Ecological Urbanism*, Lars Müller Publishers, Baden 2010
[215] Bang J. M., *Ecovillages: A Practical Guide to Sustainable Communities*, New Society Publishers, Gabriola Island, Candada 2005

ADDITIONAL LITERATURE

[11] Castells M., *Społeczeństwo sieci*, Wydawnictwo Naukowe PWN, Warszawa 2007
[12] Palej A., *Miasta cywilizacji informacyjnej. Poszukiwanie równowagi między światem fizycznym a światem wirtualnym*, Wydawnictwo Politechniki Krakowskiej, Kraków 2003
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[15] Hall E.T., *Ukryty wymiar*, Wydawnictwo Literackie Muza S.A., Warszawa 1997
[16] Bać Z. (red. pracy zbiorowej), *Psychologia Organizacji Przestrzeni Środowiska Mieszkaniowego – HABITATY 2003*, Oficyna Wydawnicza Politechniki Wrocławskiej Wrocław, 2004
[17] Bać Z. (red. pracy zbiorowej), *Habitaty pro-ekologiczne – HABITATY 2009*, Oficyna Wydawnicza Politechniki Wrocławskiej, Wrocław 2010
[18] Bać Z. (red. pracy zbiorowej), *Zrównoważony rozwój środowiska mieszkaniowego – HABITATY 2010*, Oficyna Wydawnicza Politechniki Wrocławskiej, Wrocław 2011
[19] Nillesen, A.L. & Singelenberg, J., 2010. *Amphibious Housing in The Netherlands. Architecture and Urbanism on the Water*, RotterdamNAI Publishers.
[20] F.-B. Rait, L. Hertelt, R. van Gool, *Inszenierte Architektur. Wochnungsbau jenseits des Standards.* Deutsche Verlags-. Anstalt, Stuttgart-München 2003.

COURSE ADVISOR (NAME, SURNAME, E-MAIL)

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EQUIVALENCY MATRIX OF LEARNING OUTCOMES FOR COURSE
DESIGN STUDY: HABITAT - DESIGNING RESIDENTIAL ARCHITECTURE
WITH THE LEARNING OUTCOMES FOR ARCHITECTURE AND URBAN PLANNING MAJOR

Course learning outcome	Relation of course outcome with learning outcomes formulated for the major and concentration	Course objectives	Curriculum content	No. of teaching tool
PEK_W01	**K2AiU_W01** **K2AiU_W02** **K2AiU_W03**	C1, C3, C4	Lec1-Lec5, Lec8	N1
PEK_W02	**K2AiU_W01** **K2AiU_W02** **K2AiU_W03** **K2AiU_W05**	C1, C2, C3, C4	Lec1, Lec2, Lec4, Lec5, Lec7	N1
PEK_W03	**K2AiU_W01** **K2AiU_W02** **K2AiU_W03** **K2AiU_W05**	C1, C2,C3, C4, C5	Lec3, Lec5, Lec6, Lec8	N1
PEK_U01	**K2AIU_U04** **K2AIU_U05**	C1, C2,C3, C4, C5	Pr1, Pr2, Pr3	N2, N4
PEK_U02	**K2AIU_U04** **K2AIU_U05**	C1, C2,C3, C4, C5	Pr1, Pr2, Pr3	N2, N4
PEK_U03	**K2AIU_U04** **K2AIU_U05** **K2AiU_U08**	C1, C2,C3, C4, C5	Pr1- Pr9	N2, N4
PEK_U04	**K2AIU_U04** **K2AIU_U05** **K2AiU_U08**	C1, C2,C3, C4, C5	Pr1- Pr14	N2, N4
PEK_U05	**K2AIU_U04** **K2AIU_U05** **K2AiU_U08**	C1, C2,C3, C4, C5	Pr1- Pr14	N2, N4
PEK_K01	**K2AIU_K02** **K2AIU_K04**	C1, C2,C3, C5	Lec1-Lec8	N1
PEK_K02	**K2AIU_K02** **K2AIU_K04**	C1, C2,C3, C4, C5	Lec1, Lec2, Lec4, Lec5, Lec7, Lec8	N1

FACULTY OF ARCHITECTURE

COURSE SYLLABUS

Course title in Polish
Design Study: Housing and services for the elderly and the disabled
Course title in English
Desing studio: Housing and services for elder and disabled
Academic major (if applicable): Architecture and Urban Planning
Specialization (if applicable): …….. Architecture
Course level and study mode: second cycle, full-time/part-time
Course type: elective
Kod przedmiotu AUA107714wP
Group of courses YES

	Lecture	Tutorial	Lab	Project	Seminar
Number of contact hours	15			45	
Number of student workload hours				120	
Grading policy				pass with grade*	
Mark (X) for final course in a group of courses				x	
ECTS points:				4	
including ECTS points for practical hours (P)				3	
including ECTS points for contact hours (CH)				1	

*delete as applicable

PREREQUISITES RELATING TO KNOWLEDGE, SKILLS AND OTHER COMPETENCIES
None

COURSE OBJECTIVES

C1- To introduce students to the types and degrees of disability that require the adjustment of the apartment layout and furnishings and services as well as land development.
C2 – To present criteria for diversification of form and function of homes, which result from the degree of ability of these people, pertaining to: types of homes, which they occupy, method of running them; types of residential units; the degree of their concentration; the purpose of the structure for specific ability groups, functions of the structure.
C3- To present information about world trends pertaining to designing apartments and services for the elderly and people with disabilities, about systems of distributing them in the city, about forms of property of investment resources and methods of their management.
C4 – To acquaint students with the location requirements for homes and services for this group of people in buildings, housing developments, city, removing spatial barriers.
C5 – To introduce students to the current legislation and Polish law in this scope.

COURSE LEARNING OUTCOMES

Related to knowledge:

PEK_W01

demonstrate elementary knowledge of the architecture of housing and services for older people and people with disabilities and their typology necessary for the design of such structures

Related to skills:

PEK_U01

design dwelling and structures related to rendering of services for the elderly and people with disabilities with particular focus on their specific needs;

perform analysis of the relationship with the environment, accessibility and servicing of the proposed structure (service)

PEK_U02

Design a building in accordance with the requirements of localization

Related to social competencies:

PEK_K01

Understand the need and identify the opportunities for continuous learning and improving professional, personal and social competencies

PEK_K02

Demonstrate awareness and understanding of the importance of non-technical aspects and consequences of the engineer's work, including its influence on the influence of surrounding environment and the associated responsibility for decisions

PEK_K03 Think and operate in a resourceful manner

CURRICULUM CONTENT		
Mode of teaching - lectures		**Number of hours**
Lec1	Presentation of the scope of the lecture and its connection with the project, course completion requirements, and literature of the subject. Demographic data for a group of elderly and disabled people, housing preferences, required services.	1
Lec2	Field trip to a retirement home	1
Lec3	Criteria for diversification of residential forms of the elderly and disabled.	1
Lec4	Types of residential development adapted to the degree of disability	1
Lec5	Factors that determine the methods of creating the development form. Program of home furnishings.	1
WY6	Legal regulations	1
Lec7	Global trends in the design of housing and services for the elderly and disabled	1
Lec8	Location requirements and principles of for locating homes and services for this group of people in buildings, housing developments, and city.	1
Lec9	Different systems of housing and services in the city.	1
Lec10	Reconstruction and adaptation of inner-city housing complexes for the needs of this group of people.	1
Lec11	Dispatch and information center and other service centers.	1
Lec12	Functional and spatial layout of tourist, therapeutic and geriatric center using the example of Selinunte on Sicily.	1

Lec13	Spatial barriers in the city. Reconstruction and adaptation of inner-city housing complexes for the needs of this group of people.	1
Lec14	Form of ownership of investment funds and methods of managing of these apartments and services in different countries.	1
Lec15	Final test	1
	Total hours	15

Mode of teaching - project		**Number of hours**
Pr1	Introduction to the course: course completion requirements and assessment criteria; project topics and their assignment; scope and scale of design study; presentation of examples of student work; overview of proposed locations for structures; information about filed trip to a retirement home during the next meeting. Introduction do study task no1 (during three meetings): presentation of contemporary examples of residential and commercial structures for the elderly and people with disabilities with the analysis of location, function and form of such structures	3
Pr2	Field trip to a retirement home, learning about the experience of the management and residents of the facility	3
Pr3	Presentation made by students of Study Assignment no 1 and discussion on the presented examples. Overview of the problems of pre-project studies, methods of analysis, their subject-matter and the methods of creating project guidelines. Individual work of students on the project - study part.	3
Pr4	Overview pre-project studies and analysis. Individual work of students on the project - project guidelines, functional program of the structure. Project critiques	3
Pr5	Overview of design guidelines and functional program for the project. Individual work of students on the project - functional scheme and the initial concept of the proposed facility. Project critiques.	3
Pr6	Individual work of students on the project - situation, projection of basement, underground, 1st floor, views, axonometric drawings. Project critiques.	3
Pr7	Individual work of students on the project - as above with views, axonometric drawings. Project critiques.	3
Pr8	Individual work of students on the project - as above Project critiques.	
Pr9	Presentation made by students of the project – inventory of land plot, analysis, design guidelines, situation, functional diagrams, preliminary briefs of the building. Project critiques.	3

Pr10	Individual work of students on the project – projections of selected apartment/rooms/halls (depending on the studies topic), building elevations and sections, visualization, development of land parcels. Project critiques.	3
Pr11	Individual work of students on the project - as above Project critiques.	3
Pr12	Individual work of students on the project - as above Project critiques.	3
Pr13	Individual work of students on the project - as above Project critiques.	3
Pr14	Individual work of students on the project - as above Project critiques.	3
Pr15	Presentation made by students and submission of the finished project and discussion.	3
	Total hours	45

TEACHING TOOLS
N1. Expository lecture with elements of problem-solving lecture - form: multimedia presentation, classical lecture with blackboard use. N2. Interactive project. N3. Multimedia presentation (by students) as part of the project. N4. Development of the design concept for the working / computer 3D model. N5. Project consultations (skills in communicating through graphics). N6. Presentations of projects (improving methods of presentation) N7. Educational field trip (trip to structure, interviews with the management and residents to learn the specifics of the structure).

ASSESSMENT OF ACHIEVEMENT OF LEARNING OUTCOMES

Assessment (F – formative (during the semester), S – summative (at the end of semester)	Number of learning outcome	Method of assessing the achievement of learning outcome
F1	PEK_U01 PEK_U02 PEK_K01- PEK_K03	Grade for the content of Study task no 1
F2	PEK_U01 PEK_U02 PEK_K01- PEK_K03	Assessment of the content quality of the project (analytical part)
F3	PEK_U01 PEK_U02 PEK_K01- PEK_K03	Assessment of the content quality of the project (design part)
F4	PEK_W01	Assessment of test (lecture)
P = (F1 + F2 + F3+F4)/4		

BASIC AND ADDITIONAL LITERATURE

BASIC LITERATURE:

[216] Meyer-Bohe W.: Budownictwo dla osób starszych i niepełnosprawnych. Arkady. Warszawa 1998
[217] Kuldschun H. Rossman E.: Budownictwo dla upośledzonych fizycznie. Arkady, Warszawa 1980
[218] ABC mieszkania bez barier. Wyd. DOM DOSTĘPNY. Warszawa 2003.
[219] Jaranowska K.: Osoby niepełnosprawne w środowisku miejskim. Warszawa 1996
[220] Vademecum projektanta- problemy osób niepełnosprawnych. Warszawa 1991

ADDITIONAL LITERATURE:

[135] Jurkowska-Kucharska B.: Klasyfikacja form zamieszkiwania dostosowanych do potrzeb ludzi starszych. Praca doktorska. Politechnika Wrocławska. Wrocław 1976
[136] Jurkowska-Kucharska B.: Systemy mieszkań i usług dla ludzi starszych. w: ARCHITECTUS nr 1-2/1998, s.99-101

COURSE ADVISOR (NAME, SURNAME, E-MAIL)

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EQUIVALENCY MATRIX OF LEARNING OUTCOMES FOR COURSE **Housing and services for the elderly and the disabled** WITH THE LEARNING OUTCOMES FOR ARCHITECTURE AND URBAN PLANNING MAJOR AND CONCENTRATION IN ARCHITECTURE

Course learning outcome	Relation of course outcome with learning outcomes formulated for the major and specialization (if applicable)**	Course objectives***	Curriculum content***	No. of teaching tool***
PEK_W01 (knowledge)	**S2AR_W03**	C1-C4	Lec1-Lec15	N1, N7
PEK_U01 (skills)	**S2AR_U04**	C1-C4	Pr1-Pr15	N2-N7
PEK_U02 SKILLS:	**S2AR_U04**	C1-C4	Pr1-Pr15	N2-N7
PEK_K01 (competencies)	**S2AR_K01**	C1-C4	Pr1-Pr15	N2-N7
PEK_K01 (competencies)	**S2AR_K01**	C1-C4	Pr1-Pr15	N2-N7
PEK_K01 (competencies)	**S2AR_K01**	C1-C4	Pr1-Pr15	N2-N7

** - enter symbols for learning outcomes related to the academic concentration/specialization
*** - from the table above

Faculty of Architecture

COURSE SYLLABUS

Design Study: Public Space in Small Towns

Course title in English Design Studio: Public places of small towns
Academic major: **ARCHITECTURE AND URBAN PLANNING**
Study cycle and study mode: Second cycle, full-time / part-time
Course type: elective
Course code AUA107726wP
Group of courses YES

	Lecture	Tutorial	Lab	Project	Seminar
Number of contact hours	15			45	
Number of student workload hours				120	
Grading policy				credit	
ECTS points:				4	
				X	
Including ECTS points for practical hours (P)				3	
Including ECTS points for contact hours (CH)				1	

PREREQUISITES RELATING TO KNOWLEDGE, SKILLS AND OTHER COMPETENCIES

- Knowledge of basic elements of functional and spatial structure of urbanized areas.

COURSE OBJECTIVES

C1. To acquaint students with modern solutions in the field of development of public spaces in small towns.

C2. To develop the ability to assess the state of development of different types of public spaces and identify activities to improve it.

C3. To expand knowledge of the use of advanced urban techniques in the design of transformation of public spaces in urban areas of small towns.

C4. To develop the ability to prepare a project of public space development in a small city.

COURSE LEARNING OUTCOMES

Related to knowledge:

PEK_W01 - Demonstrate knowledge of the types of public spaces in cities.
PEK_W02 Identify contemporary problems of public spaces and their main causes.
PEK_W01 demonstrate knowledge of modern solutions in the field of development of public spaces in small towns.
PEK_W04 demonstrate knowledge of urban systems functioning on the basis of public spaces.

Related to skills:

PEK_U01 Perform complex analysis of external and internal circumstances of public spaces in small cities.
PEK_U02 evaluate the state of development of selected public space in a small city.
PEK_U03 Present the typology of public spaces in a selected small city and discuss the functions of such spaces.
PEK_U04 Propose activities aimed at the regeneration of different types public space.
PEK_U05 Develop a project of public space development.

Related to social competencies:

PEK_K01 Demonstrate awareness of the important role of public spaces in city structure and dependencies between its development, and the occurring interactions within it.

CURRICULUM CONTENT		
Mode of teaching - lectures		Number hours
Lec1	Scope of the lecture, course completion requirements, literature. Public spaces - definitions.	1
Lec2	Typology of public spaces. Functions of various types of public spaces in the structure of a small town	1
Lec3	The ideas for planning small cities- transformations of the role of public space in the twentieth and early twenty-first century	1
Lec4	Public spaces in European cities and their transformations - case studies.	1
Lec5	Degradation of public spaces in small cities – causes, generated problems and their impact on the functioning of small cities.	1
Lec6	Revitalization program of public spaces	1
Lec7	Public spaces in studies of circumstances and trends of spatial development and local land use plans.	1
Lec8	The role of urban planner in shaping public spaces	1
Lec9	The role of public spaces in the centers of small towns	1
Lec10	Relations between public space and other urban functions	1
Lec11	Designing public spaces in areas earmarked for investments in small towns.	1
Lec12	Modern furnishings of public space and the role of its individual components	1
Lec13-Lec14	Development of different types of public spaces: the markets of small towns, streets and town squares, parks, squares, coastal areas, etc.	1
Lec15	Transformations prospects of public space in cities.	1
	Total hours	**15**

CURRICULUM CONTENT		
Mode of teaching - project		Number hours
Pr1	Introduction, assignment of topics. In-class assignment	3
Pr 2	CONSULTATIONS. Analysis of social-economic and demographic conditions	3
Pr 3	CONSULTATIONS. Analysis of cultural circumstances.	3
Pr 4	CONSULTATIONS. Analysis of internal natural constraints.	3
Pr 5	CONSULTATIONS. Analysis of legal and economic conditions.	3
Pr 6	I. REVIEW. Presentations of circumstances and constraints in city development, which are significant in terms of functioning of public spaces.	3
Pr 7	CONSULTATIONS. Delimitation of public spaces that require corrective actions.	3
Pr 8	CONSULTATIONS. Definition of possibilities and constraints and transformation needs.	3
Pr 9	CONSULTATIONS. The concept of transformation scenario – inspirations, idea.	3
Pr 10	CONSULTATIONS. Preliminary concept of transformations of selected public space(s).	3
Pr 11	II. REVIEW. The concept of transformations of selected public space(s).	3
Pr 12	CONSULTATIONS. Economic verification of adopted objectives.	3
Pr 13	CONSULTATIONS. Implementation objectives.	3
Pr14	FINAL PRESENTATION	3
Pr 15	CREDIT	3
	Total hours	**45**

TEACHING TOOLS
6. Traditional lecture using multimedia presentation 7. Discussion. 8. Individual project consultations with the instructor. 9. In-class assignments on a given topic. 10. Individual work – preparation for project.

ASSESSMENT OF ACHIEVEMENT OF LEARNING OUTCOMES

Assessment (F – formative (during the semester), S – summative (at the end of semester)	Number of learning outcome	Method of assessing the achievement of the learning outcome
F1	PEK_U01 ÷ PEK_U3	Presentations of parts of the project during reviews 1 and 2
F2	PEK_W01 ÷ PEK_W4 PEK_U01 ÷ PEK_U5	Participation in discussion
F3	PEK_U01 ÷ PEK_U5	Presentation and submission of the project.
P=F1x0,3+F2x0,2+F3x0,5		Submitted project

BASIC AND ADDITIONAL LITERATURE

basic literature

1. Moughtin C., Urban design: street and square, Butterworth Architecture, Oxford, 1992
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6. Marcus Clare Cooper, Francis Carolyn (red.), People places: design guidelines for urban open space, New York : John Wiley & Sons, 1998.
7. Majer Andrzej, Socjologia i przestrzeń miejska, Warszawa, PWN, 2010.
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additional literature

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47. Chmielewski Jan Maciej, Teoria urbanistyki w projektowaniu i planowaniu miast, Oficyna Wydawnicza Politechniki Warszawskiej, Warszawa 2001;
48. French Hilary, New urban housing / Hilary French., Laurence King, London, 2009
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50. Losantos Agata, Krajobraz miejski; nowe trendy, nowe inspiracje, nowe rozwiązania, Warszawa TMC , 2008.
51. Zuziak Zbigniew K. O tożsamości urbanistyki , Wydawnictwa PK, Kraków 2009.
52. Masztalski R., Mycak O.: The new Polish town planing of the 90's , w: Style and manner in the architectural education, Workshop-39, Proceedings, Bucarest, 1999.
53. Rozporządzenie Ministra Infrastruktury z dnia 12 kwietnia 2002 r. w sprawie warunków technicznych, jakim powinny odpowiadać budynki i ich usytuowanie **(**Dz.U. z 2002 Nr 75 poz. 690 z późn.zm.)
54. Rozporządzenie Ministra Transportu i Gospodarki Morskiej z dnia 2 marca 1999 r. w sprawie warunków technicznych, jakim powinny odpowiadać drogi publiczne i ich usytuowanie **(**Dz.U. 1999 nr 43 poz. 430).

COURSE ADVISOR (NAME, SURNAME, E-MAIL)
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EQUIVALENCY MATRIX OF LEARNING OUTCOMES FOR COURSE
DESIGN STUDY: PUBLIC SPACE IN SMALL TOWNS
WITH THE LEARNING OUTCOMES FOR ARCHITECTURE AND URBAN PLANNING MAJOR

Course learning outcome	Relation of course outcome with learning outcomes formulated for the major	Course objectives	Curriculum content	Number of teaching tool
PEK_W01÷ PEK_W04,	K2AiU_W02, K2AiU_W03, K2AiU_W05, K2AiU_W06	C1, 3	Lec1÷ Lec15	1,3,7
PEK_U01÷ PEK_U05	K2AiU_U01, K2AiU_U03, K2AiU_U07, K2AiU_U11	C2, 4	Pr.1÷ Pr15	2-6
PEK_K01	K2AiU_K04, K2AiU_K05	C1÷ 4	Lec.÷Lec15 Pr.1÷ Pr15	1÷7

Zał. nr 4 do ZW 33/2012

FACULTY OF ARCHITECTURE

COURSE SYLLABUS

DESIGN STUDY: DESIGNING HOTELS, OFFICES, BANKS AND STOCK MARKETS.

Academic major: Architecture and Urban Planning
Course level and study mode: second cycle, full-time/part-time
Course type: elective
Course code: AUA107701wP
Group of courses YES

	Lecture	Tutorial	Lab	Project	Seminar
Number of contact hours	15			45	
Number of student workload hours				120	
Grading policy				pass with grade	
Mark (X) for final course in a group of courses				X	
ECTS points:				4	
including ECTS points for practical hours (P)				3	
including ECTS points for contact hours (CH)				1	

PREREQUISITES RELATING TO KNOWLEDGE, SKILLS AND OTHER COMPETENCIES

1. KNOWLEDGE Students demonstrate knowledge of designing commercial buildings with a simple structure and form.
2. SKILLS: Students can independently solve simple design tasks. Use CAD computer aided design software and computer graphic programs to create presentations.

COURSE OBJECTIVES

C1 The objective of the course is to acquaint students with architecture of structures with a dominating office and hotel function, as well as banks and stock markets.

C2 The objective of the course is to equip students with skills in designing offices, hotels, banks and stock market buildings with the accompanying functions in a specific urban context by solving a selected project topic.

C3 The objective of the course is to equip students with a creative approach to designing such structures and to searching for innovative solutions.

COURSE LEARNING OUTCOMES

Related to knowledge:

PEK_W01 demonstrate elementary knowledge of commercial architecture with a office, hotel, bank, and stock market function and its typology necessary to design such structures; demonstrate knowledge of technical problems related to their design and construction, including evacuation and fire safety.

Related to skills:

PEK_U01 Design commercial structures with dominating office and hotel function, as well as banks and stock markets; analyze the relationship with the surrounding, accessibility and service facility for the proposed structures, analyze the functional relations and the used construction solutions; demonstrate skills in preparing and formulating architectural documentation for selected structure

Related to social competencies:

PEK_K01 Understand the need and identify the opportunities for continuous learning and improving professional, personal and social competencies

PEK_K02 Demonstrate an awareness and understanding of the importance of non-technical aspects and consequences of the architect's work, including its impact on the environment and the related responsibility for decisions.

PEK_K03 think and operate in a resourceful manner

CURRICULUM CONTENT

Mode of teaching - lectures		**Number of hours**
Lec1	Hotels, offices, banks – in tall buildings, development architectural technologies and solutions	2
Lec2	Hotels - development of the hotel industry, typology, functional solutions	2
Lec3	Hotels - architecture of hotel buildings	2
Lec4	Office buildings – origins, development and typology	2
Lec5	Office buildings – functional solutions, architecture of office buildings	2
Lec6	Banks – origins, typology, functional solutions, architecture	2
Lec7	Stock market buildings – origins, typology, functional solutions and architecture	2
Lec8	Presentation of original projects, credit.	1
	Total hours	**15**

Mode of teaching - project		Number of hours
Pr1	Overview and choice of topics, analysis of constraints	3
Pr2	Functional and spatial concept, land use plan - 1:500 scale	6
Pr3	Presentation I, discussion.	3
Pr4	Architectural concept, including: - views of all floors, elevations - 1:200 scale, selected fragment - 1:100 scale, -characteristic sections and projections - 1:200 scale, chosen section - 1:100 scale	18
Pr5	Presentation 2, overview of projects and discussion	3
Pr6	Architectural detail, project visualizations	9
Pr7	Submission of final project, assessment of the project	3
	Total hours	**45**

TEACHING TOOLS
N1. Expository lecture N2. problem-solving lecture N3. multimedia presentation, N4. Presentation of project. N5. consultation N6. discussion

ASSESSMENT OF ACHIEVEMENT OF LEARNING OUTCOMES

Assessment (F – formative (during the semester), S – summative (at the end of semester)	Number of learning outcome	Method of assessing the achievement of learning outcome
F1	PEK_W01	Test α_1=1
F2	PEK_U01	Assessment of the content quality of the project - α_2=0,8
F3	PEK_K01 PEK_K02	Class participation assessment (min. 50% critiques, credit for all reviews) α_3=0,1
F4	PEK_K03	Assessment of oral presentation α_4=0,1
P 1= α_1 F1 where α_1=1, Σ α = 1 P 1= α_2 F2+ α_3 F3+ α_4F4 where α_2=0,8, α_3=0,1, α_4=0,1 Σ α = 1		

BASIC AND ADDITIONAL LITERATURE

BASIC LITERATURE:

[1] Błądek Z. *Hotele, Programowanie, projektowanie , wyposażenie,* Wyd. Palladium 2004
[2] Błądek Z., Tulibacki T., *Dzieje krajowego hotelarstwa. Od zajazdu do współczesności. Fakty, obiekty, ludzie.* Wyd. Palladium.
[3] Cool Hotels Europe (praca zbiorowa), Wyd. TE NEUES 2009
[4] Czarnecki J. *Projektowanie obiektów bankowych*, Gliwice 2005.
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[9] Oparka s., Nowicka T. *Hotelarstwo. Zbiór zadań i testów.Trening przed egzaminem pisemnym i praktycznym* (Hotelarze.pl 2012).
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[11] Włodarczyk M. *Giełda Warszawska* (*Warsaw Stock Exchange)*, „A&B", lipiec-sierpień 1997, s. 27-36
[12] *Wytyczne projektowe budynków bankowych*. Instrukcje NBP
[13] Złowodzki M. *Technologiczne i środowiskowe projektowanie biur*, PK Kraków, 1997.
[14] Meyerson J., Ross P., *The XXI Century Office*, 2003.

ADDITIONAL LITERATURE:

[1] Czasopisma architektoniczne, np. *Architektura & Biznes*, *Architektura – murator*.
[2] Cerver F., A., *The World of Contemporary Architecture*.Keneman 2005.
[3] Jodidio P. Architecture Now!, Taschen (najnowsze wydania).
[4] Milewska M., Włodarczyk B., *Hotelarstwo.* 2009.
[5] Neufert E., *Podręcznik projektowania architektoniczno-budowlanego*, Warszawa 2011
[6] Wojtasik L., Tauber R.D., *Turystyka i rekreacja we współczesnym świecie*, 2011.

COURSE ADVISOR (NAME, SURNAME, E-MAIL)

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EQUIVALENCY MATRIX OF LEARNING OUTCOMES FOR COURSE
DESIGN STUDY: DESIGNING HOTELS, OFFICES, BANKS AND STOCK MARKETS.
WITH THE LEARNING OUTCOMES FOR ARCHITECTURE AND URBAN PLANNING MAJOR

Course learning outcome	Relation of course outcome with learning outcomes formulated for the major	Course objectives	Curriculum content	No. of teaching tool
PEK_W01 (knowledge)	**K1AIU_W21**	C1	Lec1-Lec8	N1, N2, N3

PEK_U01 (skills)	**K1AIU_U13**	C2	Pr1-Pr7	N1, N2, N3, N5
PEK_K01 (competencies)	**K1AIU_K01**	C1, C2	Lec1-Lec8	N1, N2, N3
PEK_K02	**K1AIU_K02**	C1, C2	Lec1-Lec8	N1, N2, N3
PEK_K03	**K1AIU_K05**	C1, C2	Pr1-Pr7	N6, N4

Annex no 4 to ZW 33/2012

FACULTY OF ARCHITECTURE

COURSE SYLLABUS

DESIGN STUDY: META-HABITAT IN DIFFERENT CULTURES.

Course title in English Meta-Habitat in Different Cultures
Academic major: ARCHITECTURE AND URBAN PLANNING
Study cycle and study mode: Second cycle, full-time / part-time
Course type: elective
Course code
Group of courses YES

	Lecture	Tutorial	Lab	Project	Seminar
Number of contact hours	15			45	
Number of student workload hours				120	
Grading policy				pass with grade	
Mark (X) for final course in a group of courses				X	
ECTS points:				4	
including ECTS points for practical hours (P)				3	
including ECTS points for contact hours (CH)				1	

PREREQUISITES RELATING TO KNOWLEDGE, SKILLS AND OTHER COMPETENCIES

1. KNOWLEDGE

Knowledge of problems related to residential architecture and history of civilization

2. SKILLS:

Ability to present architectural ideas in the form of freehand drawings.

3. OTHER COMPETENCIES:

Openness, creativity, active involvement in learning about architecture, art and science

COURSE OBJECTIVES

C1- To develop creativity and skills in designing residential architecture in harmony with the genotype and phenotype of the site

C2- To acquaint students with contemporary philosophical and social, civilizational and technological and urban and spatial circumstances of residential architecture in the world (evolutionary and structural-functional perspective).

C3- To present basic ethical and aesthetic problems related to development of residential architecture in different cultures: regionalizm vs. McWorld, creators individualism vs the protection of cultural heritage of a place.

C4- To introduce students to cultural diversity of archetypes of places and human behavior, and to the diversity of languages in spatial models of house and habitat.

C5- To present contemporary trends in residential architecture in the world, including: meta-polis and meta-habitat in the post-modern world.

C6- To equip students with skills in preparing an conceptual and problematic architectural design, which is graphically appealing.

COURSE LEARNING OUTCOMES

Related to knowledge:

PE_W01 Demonstrate detailed knowledge of cultural circumstances in relation to the development of space surrounding human life, including knowledge needed to understand the phenomenon of habitat and home, location and space.

PE_W02 Demonstrate theoretically grounded knowledge of cultural heritage of a place and its influence on residential architecture

PE_W03 Describe archetypes of places and behaviors, and spatial models of home and habitat in different cultures

PE_W04 Describe basic problems and challenges related to the development of civilization, and their influence on the concept of residential environment.

PE_W05 Identify and creatively interpret the regional spatial model of residential architecture.

Related to skills:

PE_U01 Demonstrate skills in self-teaching and develop critical thinking

PE_U02 Demonstrate the ability to retrieve information from literature of the subject, databases and other sources, draw conclusions and formulate and justify opinions, and interpret such information in the form of freehand drawings

PE_U03 Analyze the current condition of residential architecture in the world, validate information, understand civilizational trends and identify problems to by an architect

PE_U04 Demonstrate creativity using modern language of architectural forms

PE_U05 Demonstrate innovation in developing structural-technological problems of residential architecture

PE_U06 Prepare project documentation with technical description of the design, and demonstrate knowledge of architectural 3D-CAD software

PE_U07 Present an architectural concept in a clear and graphically appealing manner

Related to social competencies:

PE_K01 Demonstrate the awareness of the responsibility of an architect for maintaining the spatial order, protecting the natural environment and the cultural heritage of a place.

PE_K02 Demonstrate awareness of the social dimension of architecture and respect the diversity of needs, beliefs, opinions and aesthetic preferences of users of architecture.

PE_K03 Demonstrate openness, creativity, and active involvement in learning about architecture, art and science, and in continuous development of architectural skills

CURRICULUM CONTENT

Mode of teaching - lectures		**Number of hours**
Lec1	Meta-habitat: genes, memes and ideas. Ecumenopolis: a system of archetypes of places and behaviors in different cultures	1
Lec2	Archetype: Territory	1
Lec 3	Archetype: Path	1
Lec 4	Archetype: Shelter	1
Lec 5	Archetype: Sleeping	1
Lec 6	Archetype: Washing	1
Lec7	Archetype: Allocating	1
Lec 8	Archetype: Eating	1
Lec 9	Archetype: Storing	1
Lec10	Archetype: Mating	1
Lec 11	Archetype: Meeting	1
Lec 12	Archetype: Playing	1
Lec 13	Archetype: Competition	1

Lec 14	Archetype: Working	1
Lec 15	Individual vs universal meta-habitat	1
	Total hours	**15**

Mode of teaching - project		**Number of hours**
Pr1	*My* planet: blog describing the life of the planet in a subjective historical perspective (workshop)	3
Pr2	Place vs. timespace in meta-habitat (workshop)	3
Pr3	Territorial stations and core regions in meta- (workshop)	3
Pr4	Minimum settlement space in meta-habitat (workshop)	3
Pr5	Presentation of projects and discussion.	3
Pr6	Cycles of life in meta-habitat. Beginning and end (workshop)	3
Pr7	Washing: body and the concept of intimacy (workshop)	3
Pr8	Recycling: matter and energy cycle in meta-habitat (workshop)	3
Pr9	House as an expression of cultural models, McWorld or creator's ego (workshop)	3
Pr10	Presentation of projects and discussion.	3
Pr11	House as an expression of "to be or to have" in meta-habitat in different cultures (workshop)	3
Pr12	Meeting place in meta-habitat (workshop)	3
Pr13	Place for playing, competing and working in meta-habitat (workshop)	3
Pr14	Noospere of *my* planet: memes and ideas (workshop)	3
Pr15	Presentation of projects and discussion. Credit	3
	Total hours	**45**

TEACHING TOOLS
N1. for lectures: **multimedia presentation**, **problem-solving lecture** N2. for project: **project presentation, designing workshop, consultation**

ASSESSMENT OF ACHIEVEMENT OF LEARNING OUTCOMES

Assessment (F – formative (during the semester), S – summative (at the end of semester)	Number of learning outcome	Method of assessing the achievement of learning outcome
F1	PE_W01, PE_W02, PE_W03, PE_W04, PE_W05, PE_K01 PE_K02	Pass with grade - $\alpha_{1=}1$
F2	PE_U01, PE_U04, PE_U05, PE_K01 PE_K03	Grade for the project's conceptual value and addressed problem - $\alpha_{1=}0,4$
F1	PE_U02, PE_U03, PE_K02	Grade for the analytical value of the project - $\alpha_{2=}0,4$

F4	PE_U06, PE_U07, PE_K03	Grade for the formal and graphical appeal of the project α_3=0,2
P 1= α_1 F1 gdzie α_1=1, Σ α = 1 P 2= α_1 F2 + α_2F3 + α_3F4, where α_1=0,4 α_2=0,4 α_3=0,2 Σ α = 1		

P1 - Final grade for lecture in the form of a report: architect's sketchbook
P2 - Final grade for project (weighted average: concept and problem value – 40% , analytical value - 40% and formal-graphical appeal 20%).

BASIC AND ADDITIONAL LITERATURE

BASIC LITERATURE:

[221] Alison, Jane, Brayer, Marie-Ange, Migayrou, Frédéric, Spiller, Neil, *Future City: Experiment and Utopia in Architecture*, London: Thames&Hudson, 2006.
[222] Barber, Benjamin R., *Dżihad kontra McŚwiat* (*Jihad vs. McWorld*), Warszawa: Wydawnictwo Literackie Muza S.A., 1997.
[223] *Czas w kulturze*, Warszawa: PIW, 1988.
[224] Doxiadis, Constantinos A., *Building Entopia*, Athens: Athens Publishing Center, 1975.
[225] Ghirardo, Diane, *Architektura po modernizmie*, Warszawa: Wydawnictwo VIA, 1999.
[226] Hall, Edward T., *Ukryty wymiar* (*The Hidden Dimension*), Warszawa: Wydawnictwo Literackie Muza S.A., 1997.
[227] Hillier, Bill, Hanson, Julienne, *The Social Logic of Space*, Cambridge University Press, 1984.
[228] McDonough, William, Braungart, Michael, *Cradle to Cradle: Remaking the Way We Make Things*, New York: North Point Press, 2002.
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ADDITIONAL LITERATURE:

[137] Alexander, Christopher, *Język wzorców: Miasta, budynki, konstrukcja (A Pattern Language)*. GWP Gdańskie Wydawnictwo Psychologiczne, Gdańsk, 2008.
[138] Ferré, Albert i.in., *Verb Matters: A Survey of Current Formal and Material Possibilities in the Context of Information Age*, Architecture Boogazine, Barcelona: Actar, 2004.
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[141] Rapoport, Amos, *The Meaning of the Built Environment: A Nonverbal Communication Approach*, London: Sage Publications, 1982.
[142] Scheppe, Wolfgang, *Migropolis: Venice – Atlas of Global Situation*, Hatje Cantz Verlag, 2009.
[143] Spiller, Neil, *Cyber_Reader: Critical Writings for the Digital Era*. London: Phaidon, 2002.
[144] Steadman, Philip, *The Evolution of Designs: Biological Analogy in Architecture and the Applied Arts*, Routledge Chapman&Hall, 2008.
[145] Stelarc, "Towards the Post-Human", *Architects in Cyberspace*, *Architectural Design,* 1995, no 118.
[146] Zellner, Peter, *Hybrid Space: New Forms in Digital Architecture*, London: Thames & Hudson, 1999.

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EQUIVALENCY MATRIX OF LEARNING OUTCOMES FOR COURSE
DESIGN STUDY: META-HABITAT IN DIFFERENT CULTURES.
WITH THE LEARNING OUTCOMES FOR ARCHITECTURE AND URBAN PLANNING MAJOR

Course learning outcome	Relation of course outcome with learning outcomes formulated for the major and concentration	Course objectives	Curriculum content	No. of teaching tool
PEK_W01 (knowledge)	**K2AiU_W01** **K2AiU_W02** **S2AR_W01** **S2AR_W05**	C2, C3	Lec1-Lec15 Pr1-Pr5	N1, N5
PEK_W02	**S2AR_W02**	C2, C3	Lec1-Lec15 Pr1-Pr5, Pr9	N1, N5
PEK_W03	**S2AR_W01** **S2AR_W02**	C4	Lec2-Lec14 Pr2-Pr13	N1, N5
PEK_W04	**K2AiU_W02** **S2AR_W01**	C1, C3, C5, C6	Lec1-Lec15 Pr1-Pr15	N1, N5
PEK_W05	**K2AiU_W02** **S2AR_W01**	C1, C4, C5, C6	Lec1, Lec4, Lec15 Pr4-Pr13	N1, N5
PEK_U01 (skills)	**K2AiU_U01**	C1, C3, C6	Pr1-Pr15	N5
PEK_U02	**S2AR_U01**	C1, C3, C6	Pr1-Pr15	N5
PEK_U03	**K2AIU_U04** **S2AR_U03**	C2, C3, C5, C6	Pr1-Pr15	N5
PEK_U04	**K2AiU_U01** **K2AIU_U04** **K2AIU_U05** **S2AR_U03**	C1, C5, C6	Pr1-Pr15	N5
PEK_U05	**K2AiU_U01** **S2AR_U04** **S2AR _U07**	C1, C5, C6	Pr4-Pr13	N5
PEK_U06	**K2AiU_U01** **S2AR_U04**	C1, C5, C6	Pr5, Pr10, Pr15	N5
PEK_U07	**K2AiU_U01** **S2AR_U03**	C1, C5, C6	Pr5, Pr10, Pr15	N5
PEK_K01 (competencies)	**S2AR_K02**	C2, C3, C5, C6	Lec1, Lec 15 Pr1, Pr2, Pr9, Pr14	N1, N5
PEK_K02	*K2AIU_K04* **S2AR_K01**	C2, C3, C4, C5, C6	Lec1-Lec15 Pr1-Pr15	N1, N5
PEK_K03	*K2AIU_K02*	C1, C6	Pr1-Pr15	N5

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FACULTY OF ARCHITECTURE

COURSE SYLLABUS

DESIGN STUDY: DESIGNING OUTDOOR SPORTS AND RECREATIONAL FACILITIES

Course title in English DESIGN STUDIO: DESIGNING OUTDOOR SPORTS AND RECREATION FACILITIES
Academic major: ARCHITECTURE AND URBAN PLANNING
Course level and study mode: second cycle, full-time/part-time
Course type: elective
Course code: AUA107705wP
Group of courses YES

	Lecture	Tutorial	Lab	Project	Seminar
Number of contact hours	15			45	
Number of student workload hours				120	
Grading policy				pass with grade	
Mark (X) for final course in a group of courses				x	
ECTS points:				4	
including ECTS points for practical hours (P)				3	
including ECTS points for contact hours (CH)				1	

PREREQUISITES RELATING TO KNOWLEDGE, SKILLS AND OTHER COMPETENCIES

2. KNOWLEDGE

Understanding of problems related to (architectural and structural) design of structures. Elementary knowledge of architectural composition.
Elementary knowledge of problems of sustainable design and energy-saving technologies.

2. SKILLS:

Ability to determine the relationship of proposed buildings with the environment.
Ability to use computer-aided design programs.

3. OTHER COMPETENCIES:

Ability to work in a group.
Demonstrate the current knowledge and the latest trends in contemporary architecture.

COURSE OBJECTIVES

C1 – To introduce students to the specific character of designing recreation and sports areas in the city and the metropolitan zone,
C2 – To introduce students to the current legislation and applicable Polish law and legislation of other countries applicable in this scope,
C3 - To present problems related to the designing of sports surface structures.
C4 – To develop skills in using study materials, analyzing significant features of the natural, cultural and social, environment, and legal and administrative constraints, to prepare studies and analyses, formulate briefs on their basis related to the scope of the functional and usability program.
C5 – To develop skills in creating and presenting land use plans, locating surface sports structures, with account being taken of establishing the ordinate for large game fields; applying greenery,

landscaping features and small cubic structures that serve recreation and sport as the basic elements of contemporary composition of multifunctional recreation and sports areas.
C6 – To prepare students to implement architectural designs of small sport structures such as those built within government programs e.g. complexes of pitchces Moje boisko Orlik 2012, playgrounds Radosna Szkoła, etc..
C7 – To introduce students to contemporary trends in designing recreation areas and facilities

COURSE LEARNING OUTCOMES

Related to knowledge:

PEK_W01 – recognize basic legal regulations pertaining to designing sports and recreation areas and their constituent elements , understand their role on urbanized areas,

PEK_W02 – differentiate between types of sports and recreation activities, characterize them and propose appropriate spatial and functional solution,

PEK_W03 Demonstrate theoretically grounded detailed knowledge of selected issues of theory and principles of designing sports and recreation facilities

Related to skills:

PEK_U01 – analyze the existing condition, both in relation to architectural composition, and to environmental circumstances, design structures and recreation and sports areas in accordance with the principles of sustainable development and in relation to urban surroundings,

PEK_U02 – create briefs and choose diversified composition elements in appropriate proportions – greenery, cubic structures, landscaping features, communication,

PEK_U03 – apply contemporary energy-saving and proecological technologies in briefs.

PEK_U04 – create designs that match the location and are closely related in terms of function and landscape with the surrounding, use existing elements of urban tissue and the natural environment

Related to social competencies:

PEK_K01 – work in a team.

PEK_K02 Demonstrate an awareness and understanding of the consequences of the engineer's work related to architectural design, and its impact on the environment and the related responsibility.

CURRICULUM CONTENT

Mode of teaching - lectures		**Number of hours**
Lec1	Presentation of the scope of the lecture, course completion requirements, literature of the subject. Presentation of the connection between lectures and project. Basic concepts, definitions. Role and place of recreation on urbanized areas.	1
Lec2	Urban standards - their relevance and impact on the formation of recreational areas.	1
Lec3	Types of recreation. Division into corresponding area development. Functional diagrams of areas of recreation and sports facilities.	1
Lec4	Division of recreational areas. Urban context, Landscape aspects.	1
Lec5	Types of open areas serving recreation – principles of design, standards, constituent and accompanying structures.	1
Lec6	Golf courses - the phenomenon of artificially created landscapes. Basic principles of designing gold courses as multifunctional recreation areas.	1

Lec7	Complexes of equipment and multifunctional sports facilities.	1
Lec8	Construction elements of sports structures - synthetic surfacing.	1
Lec9	Construction elements of sports structures - substructures for surface facilities.	1
Lec10	Greenery on sport and recreation areas.	1
Lec11	Color and light. Open sports equipment, indoor spaces.	1
Lec12	Planning recreation areas – international examples – *Recreation plans*. *Standards Manual, Design Guides.*	1
Lec13	The influence of government programs on the designing process, structure and composition of the recreation base. *Moje Boisko Orlik 2012. Radosna Szkoła*. *Blisko Boisko.*	1
Lec14	Designing recreation areas in the context of sustainable management of urban space and areas in metropolitan zones.	1
Lec15	Test.	1
	Total hours	**15**

Mode of teaching - project		**Number of hours**
Pr1	**a** - Introduction do the course topics: presentation of the project trends in planning recreation areas; overview and illustration of the problems of designing that includes recreation areas into the urban tissue; course completion requirements and assessment criteria, list of literature of the subject and educational materials. Presentation of examples of student work. **b –** introduction to study task no 1. Presentations of contemporary examples of recreation areas, with the functional analysis of described developments.	3
Pr2	**a** - Presentation made by students of Study Assignment no 1 and discussion on the presented examples. **b** - Overview of the problems of pre-project studies, methods of analysis, their subject-matter (depending on the project topic), and the methods of creating and applying them in briefs **c** - Individual work of students on Project Assignment - studio part	3
Pr3	**a** - Overview of the problems of pre-project studies, methods of analysis, their subject-matter (depending on the project topic), and the methods of creating and applying them in briefs **a** - Individual work of students on Project Assignment - studio part	3
Pr4	**a –** collection, preparation and processing of study data required in the pre-project stage **b** - Completion of In-class Assignment no 1 (panel with project objectives), presentation of the results by students and discussion of results with special focus on the correctness and scope of performed pre-project analysis **c** - Individual work of students on Project Assignment - idea part, functional and spatial scheme	3
Pr5	**a** - Individual work of students on Project Assignment – functional and spatial scheme, urban composition **b –** Project critiques	3

Pr6	**a** - Presentation made by students of the Project Assignment – urban composition **b –** Project critiques	3
Pr7	**a** - Individual work of students on Project Assignment – urban and architectural composition, land development project **b –** Project critiques	3
Pr8	**a** - Individual work of students on Project Assignment – land development project, outdoor sports equipment, service facilities for designed areas **b –** Project critiques	3
Pr9	**a** - Completion of In-class Assignment no 2, (architectural concept of service facilities for designed areas) presentation of the results by students and discussion of results with special focus on the architectural and urban functionality and composition **b –** Project critiques	3
Pr10	**a** - Individual work of students on Project Assignment – outdoor sports equipment, service facilities for designed areas **b –** Project critiques	3
Pr11	**a** - Individual work of students on Project Assignment – service facilities for designed areas, landscaping features **b –** Project critiques	3
Pr12	**a** - Completion of In-class Assignment no 3 (urban detail design), presentation of the results by students and discussion of results with special focus on the functionality of solutions and correctness of structural and material solutions	3
Pr13	**a** - Individual work of students on Project Assignment – supplementing missing parts of the project, architectural detail, creating project descriptions **b –** Project critiques	3
Pr14	**a** - Presentation of the working version of the Project Assignment, discussion with special focus on project graphics standards and form of submission. **a** - Individual work of students on Project Assignment	3
Pr15	**a** - Presentation made by students and submission of the finished Project Assignment and discussion **b –** credit	3
	Total hours	**45**

TEACHING TOOLS
N1. Expository lecture with elements of problem-solving lecture - form: multimedia presentation, classical lecture with blackboard use. N2. Interactive project (lecture in justified cases). N3. Multimedia presentation (by students) as part of the project. N4. Development of the design concept for the working / computer 3D model. N5. Project consultations (skills in communicating through graphics). N6. Presentations of projects (improving methods of presentation) N7. In-class assignment as part of the project.

ASSESSMENT OF ACHIEVEMENT OF LEARNING OUTCOMES

Assessment (F – formative (during the semester), S – summative (at the end of semester)	Number of learning outcome	Method of assessing the achievement of learning outcome
F1		Grade for the content of Study task no 1
F2		Assessment of content quality of in-class assignments no 1, 2, 3
F3		Assessment of the content quality of the project task (analytical part)
F4		Assessment of the content quality of the project task (design part)
F5		attendance at lectures
F6		active participation in discussions, involvement of the student
F7		Test.
P1 - Final grade for project P1 = 0.5 x F4 + 0.3 x F3 + 0.2 x [(F1 + F2) : 2] Final grade for course may be increased or reduced by ½ depending on other factors (diligence, attendance, attitude to work, ability to work in a team) P2 - Final grade for lecture P2=0.3 x F5 + 0.2 x F6 + 0.5 x F7		

BASIC AND ADDITIONAL LITERATURE

BASIC LITERATURE:

[1] Wirszyłło R.: *Budownictwo urządzeń sportowych*. Warszawa 1961
[2] Bohdanowicz J, Wyrzykowski J.: *Urządzenia rekreacyjne*. Warszawa 1979
[3] Jarosiński S.: *Terenowe urządzenia rekreacyjne dla dzieci.* Warszawa 1986
[4] Kiełbasiewicz-Drozdowska I., Siwiński W.: *Teoria i metodyka rekreacji*. Poznań 2001
[5] Mokrzyński J.: *Architektura wolnego czasu*. Warszawa 1980

ADDITIONAL LITERATURE:

[1] Bell S.: *Design for Outdoor Recreation*. Kindle Edition 2007
[2] Drapella Hermansdorfer A. (red.): *Kształtowanie krajobrazu: idee, strategie, realizacje.* Część I-III. Wrocław 2005-7
[3] Stahle J. (red.): *Parks and Recreation Area Design Standards manual*. Suhuarita 2005
[4] Magazyn *Architektura i sport* i jego strona internetowa www.architekturaisport.pl
[5] Magazyn *Sport plus* i jego strona internetowa www.sportplusonline.pl

COURSE ADVISOR (NAME, SURNAME, E-MAIL)

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EQUIVALENCY MATRIX OF LEARNING OUTCOMES FOR COURSE
DESIGN STUDY: DESIGNING OUTDOOR SPORTS AND RECREATIONAL FACILITIES
WITH THE LEARNING OUTCOMES FOR MAJOR IN **ARCHITECTURE AND URBAN PLANNING**

Course learning outcome	Relation of course outcome with learning outcomes formulated for the major	Course objectives	Curriculum content	No. of teaching tool
PEK_W01	**K2AiU_W02** **K2AiU_W03** **K2AiU_W06**	C1, C2	Pr1, Pr2, Lec1, Lec2	N1, N2, N3
PEK_W02	**K2AiU_W01** **K2AiU_W04**	C1, C3, C4	Pr3, Pr4, Lec3, Lec4, Lec5	N1, N2, N8, N9
PEK_W03	**K2AiU_W04** **K2AiU_W08**	C4, C5	Lec3, Lec4, Lec5	N2, N8, N9
PEK_U01	**K2AiU_U01** **K2AiU_U02** **K2AiU_U07**	C3, C4, C5, C7	Pr5-Pr10, Lec12, Lec14	N1, N2, N8, N9
PEK_U02	**K2AIU_U03** **K2AIU_U04** **K2AiU_U05**	C5, C6	Pr9-Pr13, Lec5, Lec10, Lec11, Lec13	N1, N2, N4, N7, N8, N9
PEK_U03	**K2AiU_U09**	C7	Pr11, Pr12, Lec12, Lec14	N1, N8, N9
PEK_U04	**K2AiU_U06** **K2AIU_U08**	C4, C5, C7	Pr4-Pr9, Lec2, Lec5, Lec12, Lec14	N1, N2, N6, N7, N8, N9
PEK_K01	**K2AIU_K02**	C4, C5, C6	Pr4, Pr9-Pr14	N4, N7, N8, N9
PEK_K02	**K2AIU_K03** **K2AIU_K05**	C6, C7	Lec14	N2, N4, N7, N8, N9

FACULTY OF ARCHITECTURE

COURSE DESCRIPTION

DESIGN STUDY: DESIGNING FOR PEOPLE WITH DISABILITIES

Academic major: **ARCHITECTURE AND URBAN PLANNING**
Study cycle and study mode: Second cycle, full-time / part-time
Course type: elective
Course code: AUA107700wP
Group of courses: YES

	Lecture	Tutorial	Lab	Project	Seminar
Number of contact hours	15			45	
Number of student workload hours				120	
Grading policy				pass with grade	
Mark (X) for final course in a group of courses					
ECTS points:				4	
including ECTS points for practical hours (P)				3	
Including ECTS points for contact hours (CH)				1	

PREREQUISITES RELATING TO KNOWLEDGE, SKILLS AND OTHER COMPETENCIES

1. KNOWLEDGE

Knowledge of technical problems related to programming and designing
and construction of architectural structures: credit for courses in building engineering
and earlier project courses.

2. SKILLS:

Skills in analyzing the needs of occupants (including people with disabilities) and evaluating the mutual relations between small functional units in the interior. Ability to apply different methods of composition, technology and materials in presenting architectural concepts: ability to use freehand drawing techniques and knowledge of computer-aided architectural design software.

3. OTHER COMPETENCIES:

Ability to take into consideration the non-technical aspects of design (especially functional, psychological and aesthetic needs of future occupants in the proposed interiors).

COURSE OBJECTIVES

C1 - To introduce students to the basic problems of designing different types of rooms in terms of specific needs of people with different disabilities.
C2- To acquaint students with the influence of functional requirements on the spatial organization and ergonomic requirements on the functional quality of selected types of rooms.

C3- To develop skills in verifying the degree to which rooms are adapted to serve basic functional and spatial needs of people with lowered psychophysical ability.
C4- To present the possibilities of applying diversified solutions related to materials, finishes, decorations and aesthetics as well as specialist the furnishings for people with disabilities.
C5- To develop skills in applying color solutions in interiors.
C6- To acquaint students with the development prospects in interior design
for the disabled.
C7 - To develop skills in designing and presenting medium-complex architectural concepts

COURSE LEARNING OUTCOMES

1. KNOWLEDGE

PEK_W01: Demonstrate systematic and theoretically grounded general knowledge of programming and designing selected rooms in terms of specific needs of the disabled. Demonstrate rudimentary knowledge of technical problems related to programming, designing and creation of such structures.

PEK_W02: Demonstrate knowledge about the kinds of mental and physical disability people and the resulting specific functional - spatial needs.

PEK_W03: Describe characteristics of contemporary interior design.

PEK_W04: Demonstrate general knowledge of safety and designing standards and of selected types of rooms for the disabled. Recognize basic regulations pertaining to technical requirements technical requirements for buildings and their location in relation to specific needs of the disabled.

PEK-W05: Understand the relationships and dependencies between designing interiors and non-technical aspects that influence the architectural solutions and aspects of society, environment, humanization of space of work and leisure, investment economics, etc.

2. SKILLS:

PEK_U01: Integrate and apply technical and non-technical knowledge in solving a design problem pertaining to an interior, room, elements of finishes and furnishings (especially specialist for the disabled).

PEK_U02: Understand the cultural constraints and the mutual relations between the structure and the social surroundings. Create functional and spatial program of structures in accordance with functional, psychological and aesthetic needs of potential disabled occupants.

PEK_U03: Create a basic conceptual architectural design of interior design, taking into account the functional - spatial solutions and technical solutions pertaining to general construction, finishes and furnishings.

PEK_U04: Demonstrate the ability to apply traditional and electronic technical means in presenting concepts. Prepare documentation for the design task using computer aided design software. Use appropriate computer assisted design tools to simulate the proposed space and verify the correctness of interior elements, among others in adapting them to essential functional and spatial needs of people with reduced psychophysical ability.

3. SOCIAL COMPETENCIES

PEK_K01: Demonstrate awareness of the integrating, preventive and rehabilitative role of architectural space for all users - disabled and still fit.

PEK_K02: Understand the role of non-technical aspects and consequences of interior design, especially the influence on surrounding environment and the associated responsibility for decisions.

PEK_K03: Understand the importance of interior design and its impact on the quality of life of modern society.

CURRICULUM CONTENT

	Mode of teaching - lectures	**Number hours**
Lec1	Organizational meeting, justification of the need to complete the course	1
Lec2	Demographic trends vs. the disabled	1
Lec3	Types of disability.	1
Lec4	Integrated design, for everyone	1
Lec5	Dimensioning of space based on anthropometric data	1
Lec6	The disabled in open, public spaces	1
Lec7	The disabled in open, public spaces, cont	1
Lec8	The disabled in publically accessible spaces in buildings	1
Lec9	Residential rooms for the disabled.	1

Lec10	Furnishings, untypical requirements and solutions	1
Lec11	Kitchens for the disabled.	1
Lec12	Bathrooms for people with disabilities	1
Lec13	Orthopedic equipment assisting movement of the disabled	1
Lec14	Specialist equipment of everyday use	1
Lec15	The disabled vs. the building code in Poland and other countries	1
	Total hours	**15**

Mode of teaching - project		**Number hours**
Pr1	Scope of the project, course completion requirements, literature. Overview of backgrounds and choice of project topics (single rooms). Assignment of design topics to students.	3
Pr2	In-class assignment: functional program, conceptual sketch of the interior, scheme of functional zones, communication layout and interior composition (functional arrangement, mood and decor of the interior). Axonometric drawings or perspective of the whole development. Graphical technique chosen by students.	3
Pr3	Review of the in-class assignment. Analysis of the topics: functional programming, schemes of relations between main functional zones in the project. Consultations.	3
Pr4	Preliminary concept of the functional and spatial solution of interior. Functional diagrams. Black and white graphic. Consultations.	3
Pr5	Functional and spatial concept of interior, specialist equipment, determining the mood and decor, projections, typical cross sections, axonometric and perspective drawings. Black and white graphic. Consultations.	3
Pr6	Review of work, class presentation and discussion.	3
Pr7	Functional and spatial concept of interior, specialist equipment, determining the mood and decor, projections, typical cross sections, axonometric and perspective drawings. Black and white graphic. Consultations.	3
Pr8	Detailed functional and spatial concept of interior, specialist equipment, determining the mood and decor, projections, cross sections, axonometric and perspective drawings. Black and white graphic. Consultations.	3
Pr9	Detailed functional and spatial concept of interior, projections, specialist furnishings, sections, axonometric and perspective drawings. Samples of color and choice of materials. Consultations.	3
Pr10	Review of work, class presentation and discussion.	3
Pr11	Functional and spatial concept of an interior. Ergonomic analysis of a s selected fragment of the project in the relation man – technical product. Samples of color and choice of materials. Consultations.	3
Pr12	Functional and spatial concept of an interior. Ergonomic analysis of movement and maneuvering space of people with varying mobility. Samples of color in selected fragment of the project. Consultations.	3
Pr13	Functional and spatial concept of an interior - axonometric drawings and perspective. Colors of interiors, principles of graphical presentation. Consultations.	3
Pr14	Colors of interiors, detail, principles of graphical presentation and composition of project panels. Consultations.	3
Pr15	Submission of final project, A3 format. Assessment and credit.	3
	Total hours	**45**

TEACHING TOOLS
N1. for lectures: Expository lecture, multimedia presentation, problem-solving lecture N2 for project: project presentations, case study, consultation

ASSESSMENT OF ACHIEVEMENT OF LEARNING OUTCOMES

Assessment (F – formative (during the semester), S – summative (at the end of semester)	Number of learning outcome	Method of assessing the achievement of learning outcome
F1	K2AiU_W01, K2AiU_W02, K2AiU_U01, K2AiU_K01, K2AiU_K03	Written test covering lecture topics - $\alpha_{1=}0,1$
F2	K2AiU_W01, K2AiU_W02, K2AiU_W08, K2AiU_U04, K2AiU_K03	Assessment of the content quality of the project - $\alpha_{1=}0,6$
F3	K2AiU_W01, K2AiU_W02, K2AiU_U01, K2AiU_U04, K2AiU_K03	Assessment for the presentation of problems covered by the project - $\alpha_{2=}0,1$
F4	K2AiU_W01, K2AiU_W04, K2AiU_U04	Assessment for graphic design of the project $\alpha_{3=}0,3$
$P1 = \alpha_1 F1 + \alpha_2 F2 + \alpha_3 F3 + \alpha_4 F4$ gdzie $\alpha_1=0.1$; $\alpha_2=06$; $\alpha_3=01$; a4=02; $\Sigma\alpha = 1$ P1 - Project attendance and final grade for project (weighted average: for projects – 60% , for presentations 10% and graphical appeal 20% and the final written test covering the lectures – 10%).		

BASIC AND ADDITIONAL LITERATURE

BASIC LITERATURE:

[1] **Gedliczka A**., Atlas miar człowieka, CIOP 2001
[2] **Kuldschun H., Rossmann E**., Budownictwo dla upośledzonych fizycznie, Arkady 1980
[3] **Neufert E**., Podręcznik projektowania architektoniczno-budowlanego, Arkady, 1995
[4] **Ramsey Ch**., Architectural Graphic Standards, John Willey & Sons, 1988
[5] **Skaradzińska** ., Dane do projektowania i adaptacji wnętrz mieszkalnych dla osób niepełnosprawnych…, IWP, 1980
[6] zbiorowa, ABC… mieszkania bez barier, Fundacja DOM DOSTĘPNY, 2003

ADDITIONAL LITERATURE:

[1] **Charytonowicz J**., Projektowanie laboratoryjnych stanowisk pracy, Oficyna Wydawnicza Politechniki Wrocławskiej, 1994
[2] **Hugues T**., Die altengerechte Wohnung, Callwey 1975
[3] **Tilley A**., The measure of man and woman, Whitney 2001
[4] zbiorowa, Barrierefrei, Bauen fuer Behinderte und Betagte, A. Koch Verlag, 2003
[5] **Zeugner G**., Barwa i człowiek, Arkady 1965
Czasopisma architektoniczne i wnętrzarskie dostępne w bibliotekach wydziałowych

COURSE INSTRUCTOR (NAME, SURNAME, E-MAIL)

Przemysław Nowakowski PhD, przemysław.nowakowski@pwr.wroc.pl

EQUIVALENCY MATRIX OF LEARNING OUTCOMES FOR COURSE
DESIGN STUDY: DESIGNING FOR PEOPLE WITH DISABILITIES
WITH THE LEARNING OUTCOMES FOR ARCHITECTURE AND URBAN PLANNING MAJOR

Course learning outcome	Relation of course outcome with learning outcomes formulated for the major	Course objectives	Curriculum content	Number of teaching tool
PEK_W01	K2AIU_W01, K2AIU_W02	C1, C2, C3, C6	Lec1 – Lec15	N1
PEK_W02	K2AIU_W01, K2AIU_W02	C2, C3, C4	Lec2 – Lec4	N1
PEK_W03	K2AIU_W01, K2AIU_W02	C1, C2, C3, C4, C5, C6	Lec4, Lec15	N1
PEK_W04	K2AIU_W02, K2AIU_W04	C1, C2, C3, C4, C6, C7	Lec5 – Lec15	N1
PEK_W05	K2AIU_W01, K2AIU_W02, K2AIU_W04	C1, C2, C3, C4, C6	Lec2, Lec4, Lec11 – Lec13, Lec15	N1
PEK_U01	K2AIU_U01, K2AIU_U03	C1, C2, C3, C4	Pr2 – Pr14, Lec1 – Lec15	N1, N5
PEK_U02	K2AIU_U01, K2AIU_U03, K2AIU_U04	C2, C3, C4, C5, C6, C7	Pr2 – Pr14, Lec5 – Lec15	N1, N5
PEK_U03	K2AIU_U01, K2AIU_U03, K2AIU_U04	C1, C2, C3, C4, C5, C6, C7	Pr2 – Pr14	N5
PEK_U04	K2AIU_U01, K2AIU_U04	C1, C4, C5, C7	Pr2 – Pr14	N5
PEK_K01	K2AIU_K02, K2AIU_K03	C1 - C4, C6	Lec1 – Lec4	N1
PEK_K02	K2AIU_K02, K2AIU_K03	C1 - C4, C6	Lec1 – Lec4, Lec14, Lec15	N1
PEK_K03	K2AIU_K04,	C1 - C4, C6	Lec1 – Lec4	N1

FACULTY OF ARCHITECTURE

COURSE SYLLABUS

DESIGN STUDY – INTERIOR DESIGN - HISTORY AND MODERNITY

Academic major: **ARCHITECTURE AND URBAN PLANNING**
Study cycle and study mode: Second cycle, full-time / part-time
Course type: elective
Course code: AUA107683wP
Group of courses: NO

	Lecture	Tutorial	Lab	Project	Seminar
Number of contact hours	15			45	
Number of student workload hours				120	
Grading policy				**pass with grade**	
Mark (X) for final course in a group of courses					
ECTS points:				4	
Including ECTS points for practical hours (P)				3	
Including ECTS points for contact hours (CH)				1	

PREREQUISITES RELATING TO KNOWLEDGE, SKILLS AND OTHER COMPETENCIES

1. KNOWLEDGE

Knowledge of technical problems related to programming and designing and construction of architectural structures

Skills in analyzing the needs of occupants and evaluating the mutual relations between small functional units in interiors and in designing interior elements at different scales. Ability to apply different methods of composition, technology and materials in presenting architectural concepts: ability to use freehand drawing techniques and knowledge of computer-aided design software.

3. OTHER COMPETENCIES:

Ability to take into consideration the non-technical aspects of design (especially functional, psychological and aesthetic needs of future occupants in the proposed interiors).

COURSE OBJECTIVES

C1 - To introduce students to the advanced problems of designing different types of interiors.
C2- To acquaint students with the influence of functional requirements on the spatial organization and ergonomic requirements on the functional quality of selected types of interiors.
C3- To develop skills in verifying the degree to which interiors are adapted to serve basic functional and spatial needs of people, including those with diversified psychophysical ability.
C4- To learn examples of technological requirements in designing interiors using examples of interior details.
C4- To present the possibilities of applying diversified solutions related to materials, finishes, decorations and aesthetics.

C5- To develop skills in applying color solutions in interiors.
C6- To acquaint students with the development prospects in interior design
C7 - To develop skills in designing and presenting concepts
of medium-complex architectural structure.

COURSE LEARNING OUTCOMES

1. KNOWLEDGE

PEK_W01: Demonstrate systematic and theoretically grounded general knowledge of programming and designing selected types of interiors and interior details. Demonstrate rudimentary knowledge of technical problems related to designing and creating such structures.

PEK_W02: Describe characteristics of contemporary interior design, and interior details.

PEK_W03: Demonstrate general knowledge of designing standards for selected types of interiors. Identify basic technological requirements for designing and implementing elements interior furnishings.

PEK-W04: Understand the relationships and dependencies between the design of interiors, and non-technical aspects that influence the architectural sols and aspects of society, environment, investment economics, etc.

2. SKILLS:

PEK_U01: Integrate and apply technical and non-technical knowledge in solving a design problem pertaining to interiors at a scale of a room, elements of finishes and furnishings.

PEK_U02: Understand the cultural constraints and the mutual relations between the structure and the social surroundings. Demonstrate the ability to design a structure in accordance with former and modern functional, technical and aesthetic requirements of potential occupants.

PEK_U03: Create a conceptual architectural design of interior design and technical design of interior detail, taking into account the functional - spatial solutions and technical solutions pertaining to general construction, finishes and furnishings.

PEK_U04: Demonstrate the ability to apply traditional and electronic technical means in presenting architectural concepts. Prepare documentation of project assignment using software for computer-aided design. Use appropriate computer aided design tools to simulate, the proposed space and verify the correctness of interior elements.

3. SOCIAL COMPETENCIES

PEK_K01: Understand the role of non-technical aspects and consequences of designing interior, especially the influence on the surrounding environment and the associated responsibility for decisions.

PEK_K02: Understand the importance of interior design and its impact on on the quality of contemporary life of the society.

CURRICULUM CONTENT		
Mode of teaching - lectures		**Number hours**
Lec1	Functioning stages of technological structures	2
Lec2	Designing criteria, conditions of use of interiors.	2
Lec3	Design criteria, conditions for designing elements of the interior furnishings (housing and wooden furniture)	2
Lec4	Design criteria, conditions for designing elements of the interior furnishings (stone, plaster casing, etc.)	2
Lec5	Design criteria, conditions for designing elements of the interior furnishings (metal parts)	2
Lec6	Design criteria, conditions for designing elements of the interior furnishings (elements of upholstery, fabrics)	2

Lec7	Color and light in interiors	2
Lec8	General principles for design of industrial forms	1
	Total hours	**15**

Mode of teaching - project		**Number hours**
Pr1	Scope of the project, course completion requirements, literature. Overview of backgrounds and choice of project topics. Assignment of design topics to students.	3
Pr2	In-class assignment: conceptual sketch of the interior, functional arrangement, mood and decor of the interior. Graphical technique of student's choosing.	3
Pr3	Review of the in-class assignment. Analysis of the topics: functional programming, schemes of relations between main functional zones in the project. Consultations.	3
Pr4	Preliminary concept of the functional and spatial solution of interior. Functional diagrams. Black and white graphic. Consultations.	3
Pr5	Functional and spatial concept of interior, determining the mood and decor, projection, typical cross sections, axonometric and perspective drawings. Black and white graphic. Choice of interior element for detailed study. Consultations.	3
Pr6	Review of work, class presentation and discussion.	3
Pr7	Functional and spatial concept of interior, determining the mood and decor, projections, typical cross sections, axonometric and perspective drawings. Interior detail. Black and white graphic. Consultations.	3
Pr8	Detailed functional and spatial concept of interior, determining the mood and decor, projections, typical cross sections, axonometric and perspective drawings. Interior detail. Black and white graphic. Consultations.	3
Pr9	Detailed functional and spatial concept of interior, projections, typical cross sections, axonometric and perspective drawings. Samples of color and choice of materials. Interior detail. Consultations.	3
Pr10	Review of work, class presentation and discussion.	3
Pr11	Interior detail. Samples of color and choice of materials. Consultations.	3
Pr12	Interior detail. Samples of color in selected fragment of the project. Consultations.	3
Pr13	Functional and spatial concept of an interior - axonometric drawings and perspective. Interior colors. Interior detail. Principles of graphical presentation. Consultations.	3
Pr14	Colors of interiors, detail, principles of graphical presentation and composition of project panels. Consultations.	3
Pr15	Submission of final project, A3 format. Assessment and credit.	3
	Total hours	**45**

TEACHING TOOLS
N1. for lectures: Expository lecture, multimedia presentation, **problem-oriented lecture**
N5 for project: project presentations, case study, consultation

ASSESSMENT OF ACHIEVEMENT OF LEARNING OUTCOMES

Assessment (F – formative (during the semester), S – summative (at the end of semester)	Number of learning outcome	Method of assessing the achievement of learning outcome
F1	K2AiU_W01, K2AiU_W02, K2AiU_U01, K2AiU_K01, K2AiU_K03	Written test covering lecture topics - $\alpha_{1=}0,8$ Attendance at lectures - $\alpha_{2=}0,2$
F2	K2AiU_W01, K2AiU_W02, K2AiU_W08, K2AiU_U04, K2AiU_K03	Assessment of the content quality of the project - $\alpha_{1=}0,6$
F3	K2AiU_W01, K2AiU_W02, K2AiU_U01, K2AiU_U04, K2AiU_K03	Assessment for the presentation of problems covered by the project - $\alpha_{2=}0,1$
F4	K2AiU_W01, K2AiU_W04, K2AiU_U04	Assessment for graphic design of the project $\alpha_{3=}0,3$
P 1= $(\alpha_{1+}\alpha_2)$F1 where $\Sigma\ \alpha = 1$ P 2= α_1 F2 + α_2F3 + α_3F4 where α_1=0,6; α_2=01; α_3=03; $\Sigma\ \alpha = 1$ P1 - Attendance, final grade for written test P2 - Project attendance and final grade for project (weighted average for projects – 60% , for presentations 10% and graphical appeal 30%).		

BASIC AND ADDITIONAL LITERATURE

BASIC LITERATURE:

[1] **Gedliczka A**., Atlas miar człowieka, CIOP 2001
[2] **Grandjean E**., Ergonomia mieszkania, Arkady, 1978
[4] **Kreft W**., Ladenplanung, Alexander Koch Verlag 2002
[6] **Lawson F**., Restaurants, Clubs & Bars, Design…, Architectural Press 1998
[7] **Neufert E**., Podręcznik projektowania architektoniczno-budowlanego, Arkady, 1995
[8] **Ramsey Ch**., Architectural Graphic Standards, John Willey & Sons, 1988

ADDITIONAL LITERATURE:

[1] **Charytonowicz J**., Projektowanie laboratoryjnych stanowisk pracy, Oficyna Wydawnicza Politechniki Wrocławskiej, 1994
[3] **Marmot A**., Office Space Planning, McGraw – Hill 2000
[4] **Tilley A**., The measure of man and woman, Whitney 2001
[5] **Zeugner G**., Barwa i człowiek, Arkady 1965

Czasopisma architektoniczne i wnętrzarskie dostępne w bibliotekach wydziałowych

COURSE INSTRUCTOR (NAME, SURNAME, E-MAIL)
Professor **Jerzy Charytonowicz**, jerzy.charytonowicz@pwr.wroc.pl

EQUIVALENCY MATRIX OF LEARNING OUTCOMES FOR COURSE
DESIGN STUDY – INTERIOR DESIGN - HISTORY AND MODERNITY
WITH THE LEARNING OUTCOMES FOR ARCHITECTURE AND URBAN PLANNING MAJOR

Course learning outcome	Relation of course outcome with learning outcomes formulated for the major	Course objectives	Curriculum content	Number of teaching tool (
PEK_W01	K2AIU_W01, K2AIU_W04,	C1, C2, C3, C4, C5, C6	Lec1 – Lec8	N1
PEK_W02	K2AIU_W01, K2AIU_W04,	C4, C5, C6	Lec1 – Lec8	N1
PEK_W03	K2AIU_W01, K2AIU_W02, K2AIU_W04	C2, C3, C4, C5, C6	Lec3 – Lec8	N1
PEK_W04	K2AIU_W01, K2AIU_W02, K2AIU_W04	C1, C2, C3, C4, C5, C6, C7	Lec1 – Lec8	N1
PEK_U01	K2AIU_U01, K2AIU_U03, K2AIU_U04	C1, C2, C3	Pr2 – Pr14, Lec1 – Lec8	N1, N5
PEK_U02	K2AIU_U01, K2AIU_U03, K2AIU_U04	C1, C2, C3	Pr2 – Pr14, Lec3 – Lec8	N1, N5
PEK_U03	K2AIU_U01, K2AIU_U03, K2AIU_U04	C4, C5, C6, C7	Pr2 – Pr14, Lec3 – Lec8	N1, N5
PEK_U04	K2AIU_U01, K2AIU_U03, K2AIU_U04	C4, C5, C6, C7	Pr2 – Pr14	N1, N5
PEK_K01	K2AIU_K02, K2AIU_K03, K2AIU_K04	C1, C2, C3, C6	Pr1 – Pr14, Lec1 – Lec8	N1, N5
PEK_K02	K2AIU_K02, K2AIU_K04	C1, C2, C3, C4, C5, C6, C7	Pr1 – Pr14, Lec1 – Lec8	N1, N5

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FACULTY OF ARCHITECTURE

COURSE SYLLABUS

DESIGN STUDY: COMMERCIAL AND RESIDENTIAL DEVELOPMENT IN THE CITY

Academic major: ARCHITECTURE AND URBAN PLANNING
Study cycle and study mode: Second cycle, full-time / part-time
Course type: elective
Course code AUA107712wP
Group of courses YES

	Lecture	Tutorial	Lab	Project	Seminar
Number of contact hours	15			45	
Number of student workload hours				120	
Grading policy				**pass with grade**	
Mark (X) for final course in a group of courses				X	
ECTS points:				4	
including ECTS points for practical hours (P)				3	
including ECTS points for contact hours (CH)				1	

PREREQUISITES RELATING TO KNOWLEDGE, SKILLS AND OTHER COMPETENCIES

1. KNOWLEDGE: Basic understanding of technical problems related to design of architectural structures.
2. SKILLS: Ability to analyze the external circumstances of the existing urban fabric, the relationships between buildings. Skill in applying different technical methods: freehand drawings at a scale, CAD programs, modelling.
3. OTHER COMPETENCIES: Taking into consideration the non-technical aspects of design, including the influence of the cultural environment, historic circumstances, natural environment.

COURSE OBJECTIVES

C1- To define the service-residential development, establish the form, social needs and cultural, trends and mutual conditions for both functions
C2- To define the necessary features and requirements for the integrated service function
C3- To define the necessary features and requirements for the integrated residential function
C4 - To present problems related to the use of a common structural, material and installation infrastructure,
C5- To present problems of hierarchization of function, horizontal and vertical segregation.
C6- To define the urban and architectural requirement resulting from the required technical conditions for architectural design
C7 - To introduce students to development prospects of residential and commercial buildings.

COURSE LEARNING OUTCOMES

Related to knowledge:

PEK_W01: Demonstrate systematic and theoretically grounded general knowledge of designing residential and commercial development in an urbanized environment. Demonstrate rudimentary knowledge related to designing technical issues.

PEK_W02: Describe characteristics of contemporary residential and commercial architecture in a specific environment.

PEK_W03: Demonstrate general knowledge related to provisions of technical conditions of design in such development function.

PEK_W04: Understand non-technical aspects of design the aforementioned functions, such as cultural, historic and social, as well as economic circumstances.

Related to skills:

PEK_U01: Apply technical knowledge in designing commercial-residential development at an urban and architectural scale.

PEK_U02: Understand the mutual relations between building and surroundings in terms of cultural, social and technical aspects. Create a conceptual design related to architecture of commercial-residential buildings, which takes into consideration the social, functional, construction-structural and installation problems.

PEK_U03: Apply contemporary techniques and materials in presenting architectural concepts. Prepare documentation for the design task using computer aided design software. Use appropriate computer aided design tools to simulate the project and verify its elements.

Related to social competencies:

PEK_K01: Demonstrate awareness of the importance of non-technical aspects and consequences of creating solutions for residential and commercial buildings, its impact on the existing urban environment.

PEK_K02: Demonstrate awareness of the importance of the combination of service and housing function in the urbanize city structure and its impact on quality of life.

CURRICULUM CONTENT		
Mode of teaching - lectures		**Number of hours**
Lec1	Definition of the commercial-residential development, showing examples of past and present, (townhouse, quarter building)	2
Lec2	Characteristics of street-line development, analysis of dependencies on external, biourban factors, examples of buildings, development line.	2
Lec3	Definition of commercial function, types, variations and sizes, define its social, functional and technical requirements	2
Lec4	Definition of residential function, definition of its size, social, functional and technical requirements	2
Lec5	Segregation of functions in the commercial and residential buildings in terms of the urban and architectural structure	2
Lec6	Types of commercial-residential development depending on the biourban circumstances, the level and inconvenience of communication passageways, the required residential structure and size of services	2
Lec7 i 8	Field trip – to introduce students to selected, implemented examples of commercial-residential development	3
	Total hours	**15**

Mode of teaching - project		Number of hours
Pr1	Form and scope of the project, course completion requirements, literature. Overview of proposed topics and project situations. Assignment of subjects and situations, appointment of project groups.	2
Pr2	In-class assignment – preliminary concept of selected topic, analysis of the situation - historical and urban constraints, analysis of function - definition of the basic size of the structure, perspective drawings.	4
Pr3	Overview of results of in-class assignment, group work on selected development complex – definition of common functional and spatial constraints.	2
Pr4	Continuation of the project, land-use solution, schematic arrangement of functions in the facility with size balance, consultations with instructor.	4
Pr5	Continuation of project, analysis using projections and sections of functional solutions, perspective sketches of development form, consultations with instructor.	2
Pr6	Continuation of the project, land-use - system of pedestrian and road communication, Functional and spatial concept of the building - distribution of functions, projections and characteristic sections.	4
Pr7	Continuation of the project, co-ordination in the team, consultation with instructor.	2
Pr8	Review of projects, presentations by students of the created concepts, overview and assessment.	4
Pr9	In-class assignment – selected fragment of the studies topic, characteristic sections.	4
Pr10	Overview of results of in-class assignment, consultation in thematic groups.	2
Pr11	Continuation of the project, verification of land development solution, relationship with the environment and proposed adjacent buildings.	2
Pr12	Continuation of the project, function-spatial solution – program verification, introduction of changes, alternative solutions for elevation and shape, consultation with instructor	4
Pr13	Continuation of the project, structural and material solution, perspective sketches of the building shape.	2
Pr14	Continuation of the project, functional and spatial concept of the development, final verification of program, consultations.	3
Pr15	Presentation of original projects, early submission date, consultation.	4
	Total hours	**45**

TEACHING TOOLS
N1. for lectures: Expository lecture, multimedia presentations, problem-solving lecture N2.for project: project presentations , discussions, consultation

ASSESSMENT OF ACHIEVEMENT OF LEARNING OUTCOMES

Assessment (F – formative (during the semester), S – summative (at the end of semester)	Number of learning outcome	Method of assessing the achievement of learning outcome
F1	PE_W01, PE_W02, PE_W03, PE_W04, PE_K01	Oral examination based on the completed project – α_1=1
F2	PE_U01, PE_U02, PE_K01	Assessment of the content quality of the project – α_2=0,6
F3	PE_U03,	Assessment for the presentation of problems covered by the project – α_3=0,2
F4	PE_U03,	Assessment for graphic design of the project α_4=0,2
$P1=\alpha_1 F1$ where $\alpha_1=1$, $\sum\alpha=1$ $P2=\alpha_2 F2+\alpha_3 F3+\alpha_4 F4$, gdzie $\alpha_2=0.6$, $\alpha_3=0.2$, $\alpha_4=0.2$, $\sum\alpha=1$		

P1 - Final grade for oral examination
P2 - Final grade for project (weighted average: for projects – 60% , for presentations - 20% and graphical appeal 20%).

BASIC AND ADDITIONAL LITERATURE

BASIC LITERATURE:

[1] NEUFERT E., Podręcznik projektowania architektoniczno-budowlanego Arkady, Warszawa
[2] ADAMCZESKA-WEJCHERT H., Kształtowanie zespołów mieszkaniowych, Arkady, Warszawa 1972.
[3] KOZIŃSKI T., Projektowanie obiektów handlowych, Arkady. Warszawa 1980.
[4] WIRSZYŁŁO R. - Praca zbiorowa, Urządzenia sportowe, Planowanie, projektowanie, budowa, użytkowanie Arkady Warszawa 1982
[5] CUDNIK ZBIGNIW, Skarbnice wiedzy Ossolineum Wrocław 1980
[6] POPŁAWSKI B., Projektowanie szkół wyższych Arkady Warszawa 1982
[7] JURASZYŃSKI J. NITSCH A. PORĘBOWICZ S. RADWAŃSKI Z., Projektowanie obiektów służby zdrowia Arkady Warszawa 1973
[8] TEAROWSKI M., Słońce w architekturze Arkady Warszawa 1970
[9] SADOWSKI J., Akustyka w architekturze i budownictwie. Warszawa 1971.
[10]KONARZEWSKI L., Związki funkcjonalno-przestrzenne w przebudowywanych strukturach XIX-wiecznych dzielnic miasta /na przykładzie rejonu placu Bema i ulicy Drobnera we Wrocławiu/ - wybrane zagadnienia. Raport Instytutu Architektury i Urbanistyki Politechniki Wrocławskiej , Wrocław 1991/
[11] KULAK T., Historia Wrocławia, t. 2, Wrocław 2001

ADDITIONAL LITERATURE:

[1] DRAMKOWSKI T, CZERNER O., Wrocław z lotu ptaka. Ossolineum. Wrocław 1985.
[2] BIŃKOWSKA I., Wrocław - Fotografie z przełomu XIX i XX wieku, VIA – Wydawnictwo 1993.
[3] CERVER F. A., The World of Contemporary Architecture, Barcelona 2003.
Contemporary European Architects Volume III, 1995 Köln
[4] GEIST J. F., Passagen ein Bautyp des 19. Jahrhunderts, München 1982
MOSS M., TUTON A., A Legend of Retailing House of Fraser, London 1989
[5] MOUNT C. M., The New Restaurant, Dining Desgn 2, New York 1995.
[6] red. B. Evers, Ch. Thoenes, Köln., Architectural Theory from the Renaissance to the Present, , London, Los Angeles, Madrid, Paris, Tokyo 2003.
[7] Architektura - Murator, miesięcznik, Warszawa.

[8] Architektura & Biznes , miesięcznik, Kraków.
COURSE ADVISOR (NAME, SURNAME, E-MAIL)
Leszek Konarzewski PhD, e-mail - leszek.konarzewski@pwr.wroc.pl

EQUIVALENCY MATRIX OF LEARNING OUTCOMES FOR COURSE
DESIGN STUDY: COMMERCIAL AND RESIDENTIAL DEVELOPMENT IN THE CITY
WITH THE LEARNING OUTCOMES FOR ARCHITECTURE AND URBAN PLANNING MAJOR

Course learning outcome	Relation of course outcome with learning outcomes formulated for the major	Course objectives	Curriculum content	No. of teaching tool
PEK_W01 (knowledge)	K2AiU_W01, K2AiU_W02, K2AiU_W03, K2AiU_W04	C1, C2, C3, C4,C5	Lec1-Lec6	N1
PEK_W02	K2AiU_W02, K2AiU_W03, K2AiU_W04, K2AiU_W05	C1,C2,C3,C4,C5	Lec1-Lec6	N1
PEK_W03	K2AiU_W02, K2AiU_W03, K2AiU_W04, K2AiU_W07	C2,C3,C4,C6	Lec3,Lec4	N1
PEK_W04	K2AiU_W01, K2AiU_W03, K2AiU_W05, K2AiU_W06, K2AiU_W07	C5,C6,C7	Lec3,Lec5,Lec6	N1
PEK_U01 (skills)	K2AiU_U01, K2AiU_U03, K2AiU_U04, K2AiU_U05	C1,C2,C3,C4,C5, C6	Pr1-Pr7,Pr9--Pr14,	N1,N5
PEK_U02	K2AiU_U06, K2AiU_U07, K2AiU_U09, K2AiU_U010	C1-C7	Pr5-Pr15	N1,N5
PEK_U03	K2AiU_U01, K2AiU_U05, K2AiU_U09, K2AiU_U10, K2AiU_U11	C4-C7	Pr11-Pr15	N1,N5
PEK_K01 (competencies)	K2AiU_K03, K2AiU_K04	C1, C4-C7	Pr1-Pr15	N1,N5
PEK_K02	K2AiU_K03, K2AiU_K04, K2AiU_K05	C5-C7	Pr4-Pr15	N1,N5

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FACULTY OF ARCHITECTURE

COURSE SYLLABUS

DESIGN STUDY: DESIGNING CONCERT HALLS

Academic major: **ARCHITECTURE AND URBAN PLANNING**
Course level and study mode: **second cycle, full-time**
Course type: **elective**
Course code **AUA107704wP**
Group of courses **YES**

	Lecture	Tutorial	Lab	Project	Seminar
Number of contact hours	15			45	
Number of student workload hours				120	
Grading policy				**pass with grade**	
Mark (X) for final course in a group of courses				X	
ECTS points:				4	
including ECTS points for practical hours (P)				3	
including ECTS points for contact hours (CH)				1	

PREREQUISITES RELATING TO KNOWLEDGE, SKILLS AND OTHER COMPETENCIES

1. KNOWLEDGE Students demonstrate knowledge of designing building with a simple structure and form. Have a completed course in preliminary design and architectural design in an undergraduate program. Prepare functional program for structures with a uniform function.
2. SKILLS: Students use computer aided design software and computer graphic programs to create presentations.

COURSE OBJECTIVES

C1 The objective of the course is to acquaint students with architecture of structures with a dominating auditorium function.
C2 The objective of the course is to equip students with skills in designing auditoriums with a hall and the accompanying functions by solving a selected project topic.
C3 The objective is to equip students with a creative approach to designing such structures and to searching for innovative solutions.

COURSE LEARNING OUTCOMES

Related to knowledge:

PEK_W01 demonstrate elementary knowledge of commercial architecture with a dominating auditorium function and its typology necessary to design such structures; demonstrate knowledge of technical problems related to their design and construction, including evacuation and fire safety.

Related to skills:

PEK_U01 Design commercial structures with dominating auditorium function; analyze the relationship with the surrounding, accessibility and service facility for the proposed structures, analyze the functional relations and the used construction solutions; demonstrate skills in preparing and formulating architectural documentation for selected structure

Related to social competencies:

PEK_K01 Understand the need and identify the opportunities for continuous learning and improving professional, personal and social competencies

PEK_K02 Demonstrate an awareness and understanding of the importance of non-technical aspects and consequences of the engineer's work, including its impact on the environment and the related responsibility for decisions.

PEK_K03 think and operate in a resourceful manner

CURRICULUM CONTENT		
Mode of teaching - lectures		**Number of hours**
Lec1	Auditorium in the structure of commercial building, functional relationships	2
Lec2	History of auditoria - ancient theater	2
Lec3	Structural development of Auditorium in historical periods (Renaissance, Baroque, etc.)	2
Lec4	Typology of contemporary autidorium	2
Lec5	Developing modern auditorium in terms of ergonomic considerations and the requirements of the construction law	2
Lec6	Problems of the stage - visibility diagrams and acoustics	2
Lec7	Review and analysis of selected examples of auditoria.	2
Lec8	Discussion of original projects, credit	1
	Total hours	**15**

Mode of teaching - project		**Number of hours**
Pr1	Overview and choice of topics, analysis of constraints	3
Pr2	Functional and spatial concept, land use plan - 1:500 scale	6
Pr3	Presentation I, discussion.	3
Pr4	Architectural concept, including: - views of all floors - 1:200 scale, selected fragment: hall projection – 1:100 scale, -characteristic sections and projections - 1:200, section of hall with visibility chart - 1:100 scale	18
Pr5	Presentation 2, overview of projects	3

Pr6	Architectural detail, project visualizations	9
Pr7	Submission of final project, assessment of the project	3
	Total hours	**45**

TEACHING TOOLS
N1. Expository lecture N2. problem-solving lecture N3. multimedia presentation, N4. Presentation of project. N5. consultation N6. discussion

ASSESSMENT OF ACHIEVEMENT OF LEARNING OUTCOMES

Assessment (F – formative (during the semester), S – summative (at the end of semester)	Number of learning outcome	Method of assessing the achievement of learning outcome
F1	PEK_W01	Test α_1=1
F2	PEK_U01	Assessment of the content quality of the project - $\alpha_{2=}$0,8
F3	PEK_K01 PEK_K02	Class participation assessment (min. 50% critiques, credit for all reviews) $\alpha_{3=}$0,1
F4	PEK_K03	Assessment of oral presentation $\alpha_{4=}$0,1
P 1= α_1 F1 where α_1=1, Σ α = 1 P 1= α_2 F2+ α_3 F3+ α_4F4 where α_2=0,8, α_3=0,1, $\alpha_{4=}$0,1 Σ α = 1		

BASIC AND ADDITIONAL LITERATURE

BASIC LITERATURE:

[1] Rozporządzenie Ministra Infrastruktury z dnia 12 kwietnia 2002 r. w sprawie warunków technicznych, jakim powinny odpowiadać budynki i ich usytuowanie. (Dz. U. nr 75, poz. 690; z późniejszymi zmianami)
[2] Beranek L. L., *Concert halls and opera houses: music, acoustics and architecture*, 2004
[3] Braun K., *Przestrzeń teatralna,* Wrocław 1982
[4] Frydecki A., *Projektowanie budynków widowiskowych dla teatru, muzyki i filmu,* Wrocław 1976
[5] Grudziński A., *Audytoria dydaktyczne*, Wrocław 1979
[6] Hammond M., *Performing architecture: opera houses, theatres and concert halls for the twenty-first century*, 2006
[7] Heathcote E., *Cinema builders*, 2001
[8] Izenour G.C., *Theater design,* 1996
[9] Neufert E., *Podręcznik projektowania architektoniczno-budowlanego*, Warszawa 2011
[10] Wirszyłło R., *Urządzenia sportowe*, Warszawa 1966

ADDITIONAL LITERATURE:

[1] czasopisma architektoniczne krajowe i zagraniczne, np. *Architektura & Biznes*, *Architektura – murator*.

COURSE ADVISOR (NAME, SURNAME, E-MAIL)

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EQUIVALENCY MATRIX OF LEARNING OUTCOMES FOR COURSE
DESIGN STUDY: DESIGNING CONCERT HALLS
WITH THE LEARNING OUTCOMES FOR ARCHITECTURE AND URBAN PLANNING MAJOR
AND CONCENTRATION IN ARCHITECTURE

Course learning outcome	Relation of course outcome with learning outcomes formulated for the major	Course objectives	Curriculum content	No. of teaching tool
PEK_W01 (knowledge)	**K1AIU_W21**	C1	Lec1-Lec15	N1, N2, N3
PEK_U01 (skills)	**K1AIU_U13**	C2	Pr1-Pr7	N1, N2, N3, N5
PEK_K01 (competencies)	**K1AIU_K01**	C1, C2	Lec1-Lec8	N1, N2, N3
PEK_K02	**K1AIU_K02**	C1, C2	Lec1-Lec8	N1, N2, N3
PEK_K03	**K1AIU_K05**	C1, C2	Pr1-Pr7	N6, N4

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FACULTY OF ARCHITECTURE

COURSE SYLLABUS

DESIGN STUDY: DESIGNING ENVIRONMENTAL PARAMETERS OF BUILDINGS

Course title in English Designing Environmental Performance of buildings
Academic major: **ARCHITECTURE AND URBAN PLANNING**
Study cycle and study mode: Second cycle, full-time / part-time
Course type: elective
Course code: AUA107710wP
Group of courses YES

	Lecture	Tutorial	Lab	Project	Seminar
Number of contact hours	15			45	
Number of student workload hours				120	
Grading policy				pass with grade	
Mark (X) for final course in a group of courses				X	
ECTS points:				4	
including ECTS points for practical hours (P)				3	
including ECTS points for contact hours (CH)				1	

PREREQUISITES RELATING TO KNOWLEDGE, SKILLS AND OTHER COMPETENCIES

38. Completion of the course in *Designining Sustainable Structural Units*

COURSE OBJECTIVES

C1- To introduce students to all environmental constraints of architectural design, described and measured using the LCA method (*Life Cycle Assessment)* and other systems that evaluate the impact of investments on the environment. Developing knowledge of physics of buildings.
C2 - To introduce students to the features of modern and traditional building technologies, which influence the condition of the natural environment, the quality of building use, economy of investments and physics of buildings. Theoretical knowledge about the problems arising from the current model of civilization development and occurring in urban areas (consumption of natural resources, pollution, climate, environmental quality); their impact on the human living space; and the advantages and disadvantages of the solutions proposed in the model of sustainable development.
C3 - to develop skills in estimating and minimizing the negative influence of the designed investment on the environment. The ability to collect, process and analyze data that serve as a basis for calculating the environmental performance of investments (use of energy, water, materials and land area, the emission of harmful compounds, eco-durability), and the ability to indicate the relationship between the value of these indicators and the quality of human life in the urban environment.

COURSE LEARNING OUTCOMES

Related to knowledge:

PEK_W01

Demonstrate general knowledge of methodology for the creation and use of environmental parameters of buildings.

PEK_W02

Understand the relationships and dependencies between individual design solutions (land use plans, architecture, constructions, installations) and their impact on the state of the natural environment and quality of building use.

Related to skills:

PEK_U01

Analyze the existing condition of the given urbanized area by describing resources, and their evaluation and identifying the problem areas.

PEK_U02

Indicate possible design solutions leading to the minimization of the negative impact of the building on the environment.

PEK_U03

Evaluate, estimate and calculate selected environmental parameters of buildings.

PEK_U04

Prepare construction project with elements of detailed design, justified by conclusions from the completed analyses and justified economically, as well as optimized in terms of energy management, water, greenery and waste management.

Related to social competencies:

PEK_K01

Demonstrate attention to a clear study and presentation of the results of project work (text, graphics, multimedia presentation).

PEK_K02

Demonstrate willingness to cooperate in small, multi-disciplined design group.

PEK_K03

Acts in accordance with principles of professional ethics of architects.

CURRICULUM CONTENT

Mode of teaching - lectures		**Number hours**
Lec1	Scope of the lecture, course completion requirements, literature. Revision: concepts, legal basis. Sustainability as the solution to the problems of civilization development. History of ideas. Not obvious solutions - traps for ideas.	1
Lec2	Sustainability concepts. Good practices in sustainable development, the influence of sustainability on architecture and urban design.	1
Lec3	Research method: resource, valorization, conclusions. The application of the method in integrated design process.	1
Lec4	Design intent: orientation, layout of rooms, RES, energy standards	1
Lec5	Design intent: energy losses and gains, methods of ventilation, partitions, sun shields	1
Lec6	Energy 1: definition, strategies of energy management in buildings - limiting losses and generating profits	2
Lec7	Energy 2: energy consumption, glass walls, heat bridges, tightness of buildings	1

Lec8	Energy 3: integrated energy, environmental profile of materials	1
Lec9	Energy 4: heat sources, OZE, ventilation, electric energy demand	1
Lec10	Energy 5: energy performance of buildings	1
Lec11	Sustainable space management. BAF, Environmental compensation. Greenery on the plot, selection of vegetation in terms of its impact on the environment.	1
Lec12	Water: water management strategies in a building, rainwater, gray, black	1
Lec13	Waste: household and construction	1
Lec14	Economic problems, summary.	1
	Total hours	**15**

Mode of teaching - project		**Number of hours**
Pr1	5. Scope of the project, course completion requirements, literature. 6. Assignment of main and additional individual design topics to students. 7. definition of the principles of cooperation in a team 8. interview with investors	3
Pr2	4. presentation of inspirations for projects 5. analysis of the terrain, functional-spatial analysis of the natural, cultural environment, landscape 6. Valorization of resources, conclusion for project	3
Pr3	3. preliminary concept of a house on the basis of conclusions: house shape, layout and size of rooms, 1:100 scale 4. formulation of the main project intent: management of energy, materials, greenery, water, waste	3
Pr4	4. Calculations: A / V ratio, surface of translucent and opaque partitions, U factor of partitions, heat loss/gain 5. design studies, shape of house window/cover 6. details of potential heat bridges	6
Pr5	6. material solutions from the point of view of integrated energy and environmental criteria 7. choice of heat sources with account being taken of OZE 8. choice of ventilation system 9. design studios material variants of elevation, technical rooms furnishings, equipment 10. estimation of energy-related costs	6
Pr6	Implementation of energy performance of a building	3
Pr7	Design study optimization of project in terms of greenery, BAF calculations	3
Pr8	Design studies: optimization of the project in terms of water management, water demand calculations, calculation of retention reservoir sizes, estimating financial expenditures associated with water.	6
Pr9	Design studies: optimizing the project in terms of storage and waste management, plan of construction materials, calculating the amount of waste.	3
Pr10	Estimating the cost of the investment, project verification	3
Pr11	Optimization and verification of project	3
Pr12	Comprehensive preparation of the project and presentation	3

	Total hours	**45**

TEACHING TOOLS	
N11.	Expository lecture with multimedia presentation.
N12.	Problem solving lecture with multimedia presentation.
N13.	Site visit for project topic.
N14.	Presentations of projects (multimedia or traditional) – in front of the group and in public by students.
N15.	Interactive lecture and project
N16.	Project workshop with discussions.
N17.	Preparation of project on paper or in digital form.
N18.	Individual consultation.

ASSESSMENT OF ACHIEVEMENT OF LEARNING OUTCOMES

Assessment (F – formative (during the semester), S – summative (at the end of semester)	Number of learning outcome	Method of assessing the achievement of learning outcome
F1	PEK_U01,PEK_K01 PEK_K02,PEK_W01	Assessment of the analytical part of the project: scope of analysis, validity of conclusions, methods of calculating indices
F2	PEK_W02,PEK_U02, PEK_U04, PEK_K01, PEK_K02	Assessment of the correctness of the solutions for the form and function in the building, form of presentation.
F3	PEK_W01,PEK_W02, PEK_U02,PEK_U03, PEK_U04 PEK_K01,PEK_K02	Assessment of the correctness of the solutions related to energy management, form of presentation.
F4	PEK_W01,PEK_W02 PEK_U02,PEK_U03, PEK_U04 PEK_K01,PEK_K02	Assessment of the correctness of the solutions related to water management, form of presentation.
F5	PEK_W01,PEK_W02 PEK_U02,PEK_U03, PEK_U04 PEK_K01,PEK_K02	Assessment of the correctness of the solutions related to development of area around the building and choice of flora, form of presentation.
F6	PEK_W01,PEK_W02 PEK_U02,PEK_U03, PEK_U04 PEK_K01,PEK_K02	Assessment of the correctness of the solutions related to waste management, form of presentation.
F7	PEK_W01, W02, PEK_U01 - U02	Final test result
P = Weighted average: (F1x0,1+F2x0,2+F3x0,2+F4x0,2+F5x0,2+F6x0,1)x0,6 +F7x0,4		

BASIC AND ADDITIONAL LITERATURE

BASIC LITERATURE:

[11] Gauzin-Müller D.: *Sustainable architecture and urbanism.* Birkhauser 2002.
[12] Schmitz-Günther T.: *Living Spaces. Sustainable building and design.* Könemann. 1999.
[13] Thompson J. W., Sorvig K.: *Sustainable landscape construction. A guide to green building outdoors*. Island Press 2000.
[14] Brown G. Z., DeKay M.: *Sun, wind & light. Architectural design strategies.* John Wiley & Sons inc. 2001.
[15] Brown R. D., Gillespie T.J.: *Microclimatic landscape design. Creating thermal comfort and energy efficiency.* John Wiley & Sons inc. 1995.
[16] Lucket K.: *Green roof construction and maintenance.* McGraw-Hill 2009.
[17] Minke G.: *Building with earth. Design and technology of sustainable architecture.* Birkhauser 2009.
[18] Pfundstein M., Gellert R., Spitzner M. H.: *Insulating materials. Principles materials applications.* Birkhauser 2008.
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[20] Hegger M., Fuchs M., Stark T., Zeumer M.: *Energy manual.* Birkhauser 2008.

ADDITIONAL LITERATURE:

[8] Legal acts and websites related to the Act
[9] Skolimowski H.: *Ekofilozofia.* Łódź 1997.
[10] Farr D.: *Sustainable urbanism. Urban design with nature.* John Wiley & Sons inc. 2008.
[11] Girling C., Kellett R.: *Skinny streets & green neighborhoods. Design for environment and community.* Island Press 2005.
[12] Hall K. B., Porterfield G. A.: *Community by design. New urbanism for suburbs and small communities.* McGraw-Hill 2001.
[13] Parker H. S., Macguire J. W., Ambrose J.: *Simplified site engineering.* John Wiley & Sons inc. 1991.
[14] Educational materials GBC, LEED, BREEM, Ecohomes etc.

COURSE ADVISOR (NAME, SURNAME, E-MAIL)

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EQUIVALENCY MATRIX OF LEARNING OUTCOMES FOR COURSE
Design Study DESIGNING ENVIRONMENTAL PARAMETERS OF BUILDINGS
WITH THE LEARNING OUTCOMES FOR ARCHITECTURE AND URBAN PLANNING MAJOR

Course learning outcome	Relation of course outcome with learning outcomes formulated for the major and concentration	Course objectives	Curriculum content	No. of teaching tool
PEK_W01 (knowledge)	K2AiU_W02, K2AiU_W03, S2AR_W03 – W05	C1, C2, C3	Lec5 – Lec14	1,2,5
PEK_W02	K2AiU_W02, K2AiU_W03, K2AiU_W08, S2AR_W03 – W08	C1, C2, C3	Lec1 – Lec14	1,2,5
PEK_U01 (skills)	K2AiU_U04, K2AiU_U05, K2AiU_U09	C1	Pr1, Pr2	3-6, 8
PEK_U02	K2AiU_U04, K2AiU_U05, K2AiU_U09 S2AR_U03 – U07	C1,C2	Pr3 – Pr10	4-8
PEK_U03	K2AiU_U04, K2AiU_U05, S2AR_U04, U05, U07	C3	Pr4 – Pr10	4-8
PEK_U04	K2AiU_U04, K2AiU_U05, K2AiU_U09 S2AR_U03 – U07	C2, C3	Pr1 – Pr12	4-7
PEK_K01 (competencies)	K2AiU_K02	C1, C3	Pr2 – Pr9 Pr12	4.7
PEK_K02	K2AiU_K02	C1, C3	Pr1 – Pr12	4-7
PEK_K03	K2AiU_K04, K2AiU_K05 S2AR_K01, K02	C1, C3	Pr1 – Pr12	5.6

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FACULTY OF ARCHITECTURE

COURSE SYLLABUS

Course title in Polish **DESIGN STUDY: DESIGNING AND MODERNIZING HOSPITALS**
Course title in English DESIGN AND MODERNISATION OF THE HOSPITALS
Academic major: ARCHITECTURE AND URBAN PLANNING
Study cycle and study mode: Second cycle, full-time / part-time
Course type: elective
Course code AUA107702wP
Group of courses YES

	Lecture	Tutorial	Lab	Project	Seminar
Total number of contact hours	15			45	
Number of student workload hours				120	
Grading policy				credit	
Mark (X) for final course in a group of courses				x	
ECTS points:				4	
Including ECTS points for practical hours (P)				3	
Including ECTS points for contact hours (CH)				1	

PREREQUISITES RELATING TO KNOWLEDGE, SKILLS AND OTHER COMPETENCIES

1. **KNOWLEDGE:** understanding of technical problems related to designing and construction of architectural structures: credit for courses in building engineering : credit for courses in building engineering, structures, designing.
2. SKILLS: Ability to analyze and evaluate the mutual relationships between structure and the environment, ability to apply different techniques and materials in presenting architectural concepts: knowledge of computer-aided architectural design software. Use specialized computer aided design software., demonstrate basic knowledge needed to understand the cultural and aesthetic circumstances of professional design.
3. **OTHER COMPETENCIES**: take into consideration non-technical aspects of design, in particular the impact on the environment, and on social relations.

COURSE OBJECTIVES

COURSE OBJECTIVES

C1- To introduce students to the development of hospital architecture and the influence of medical technology on its development
C1 - To introduce students to the principles of creating space for health care function
C2- To acquaint students with the influence of technological processes on the spatial organization of a hospital or surgery
C3- To introduce students to recent trends in designing health care architecture
C4 - To develop skills in designing and presenting highly complex architectural projects

COURSE LEARNING OUTCOMES

	Related to knowledge:
K2AiU_W02	Demonstrate systematic and theoretically grounded knowledge of selected aspect of architecture and urban planning.
K2AiU_W03	Demonstrate theoretically grounded detailed knowledge of selected issues of theory and principles of architectural, urban, and conservation design related to the topic of the selected project.
K2AiU_W02	Demonstrate systematic and theoretically grounded knowledge of selected aspect of architecture and urban planning.
	Related to skills:
K2AIU_U04	Create an architectural, urban and conservation design using the most recent knowledge and scientific research related to the chosen topic of the design. Formulate main design objectives and interpret them in a creative manner based on the acquired knowledge.
K2AiU_U06	Conduct historical studies and formulate conservation objectives. Prepare a design and adaptation study of architectural heritage sites (including historical detail) and historic urban complexes and incorporate new architecture in the existing context with consideration of appropriate formal, spatial and functional relations.

CURRICULUM CONTENT		
Mode of teaching - lectures		**Number of hours**
Lec1	History of hospitals in Europe, models of hospital developments.	2
Lec2	Scientific and medical achievements affecting the development of hospitals in the 19th, 20th and 21st century	2
Lec3	Current medical functions and their influence on architecture of hospitals	2
Lec4	Latest solutions in designing and modernizing hospitals	2
Lec5	The health care system in Poland and in selected countries, their impact on hospital construction	2
Lec6	Review of norms pertaining to designing and buildings hospitals	2
Lec7	Latest medical technologies and their impact on designing and modernizing hospitals	2
Lec8	Modernization of hospitals with historical origins	2
	Total hours	**15**

Mode of teaching - project		**Number of hours**
Pr1	Overview of the scope of the project and course completion requirements, basic literature.	3
Pr2	Project analysis: main functions of hospitals, their mutual dependencies, the needs of patients, requirements of hospital staff	3

Pr3	Relationships between space in hospital building and and land plot, analysis of location determinants	3
Pr4	In-class assignment: the concept of spatial development	3
Pr5	Assessment of in-class assignment, validation of spatial development	3
Pr6,7,8	Functional relationships: the movement of patients, medical staff, technological requirements	9
Pr9	Preliminary concept of functional and spatial solutions	3
Pr10	In-class assignment: functional and spatial concept	3
Pr11	Assessment of in-class assignment, validation of the functional and spatial model of a hospital	3
Pr12, 13.14	Spatial layout, structure, spatial organization of patients, medical-technology-consulting spaces	9
Pr 15	Presentation and assessment of projects	3
	Total hours	**45**

TEACHING TOOLS
N1. for lectures: Expository lecture, multimedia presentation. N. for project: project presentation, consultations, problem-solving discussion.

ASSESSMENT OF ACHIEVEMENT OF LEARNING OUTCOMES

Assessment (F – formative (during the semester), S – summative (at the end of semester)	Number of learning outcome	Method of assessing the achievement of learning outcome
F1	PE_U01,	Assessment of the content quality of project presentation a1=0,2
F2	PE_U03	Assessment of the content quality of the project, applied architectural solutions a2=0,6
F3	PE_U03	Assessment for graphic design of the project a3=0,2
P1 is the final summative assessment of the project which is a weighted average of F1, F2, F3		

BASIC AND ADDITIONAL LITERATURE

BASIC LITERATURE:

1.A.H. Murken Von Armenhospital zum Grossklinikum. Koln 1995
2.M. Wójtowicz Dawne szpitale Wrocławia. Wrocław 2007
3.Z. Domosławski, Wprowadzenie do medycyny. Jelenia Góra 2007
4.H. Schott, Kronika Medycyny, Warszawa 2002
5.Susan Francis, Rosemary Glanville, Building a 2020 vision: Future Health care environments, Nuffield Trusr 2001
6.Pascale Blin, Cliniques et hopitaux prives 10 questions d'architecture, Editions Le Montieur, Paris 2009
7.Dominique Carre, Hospital Heritage, A journey through Europe, Paris 2001
8. Architectes Ingenieurs Associes, Grands Projets, Paris 2010
9.Cristine Nickl-Weller, Hans Nickl, Hospital Architecture and Design, Braun Publishing AG 2009
10.The American Institute of Architects Academy of Architecture for Health, Health 11.Facilities Review 2003-2004Victoria Australia 2004
12.Encarna Castillo, Ana G. Canizares, Spa and Health Club Design, teNeues Publishing Group, Kempen 2005
13.Arian Mostaedi, New health Facilities, Barcelona 2001

ADDITIONAL LITERATURE:

1.Historia Hospitalium. Zeitschrift der Deutschen Gesellschaft fur Krankenhausgeschihte.2006-2007
2.H. Schott, Kronika Medycyny, Warszawa 2002
3.M. Schaerer S.A. The Construction of Modern Hospitals and their Equipment. Berne, Switzerland 1935
4.Susan Francis, Rosemary Glanville, Building a 2020 vision: Future Health care environments, Nuffield Trusr 2001
5.Better by design. Pursuit of excellence in healthcare buildings, London HMSO 1994
6.Alphonse de Calonne, Modern Hospitals in Erope. W The Architectural Record volume VI 1896-1897, published by The Architectural Record CO. NY City

COURSE INSTRUCTOR (NAME, SURNAME, E-MAIL)

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EQUIVALENCY MATRIX OF LEARNING OUTCOMES FOR COURSE
DESIGN STUDY: DESIGNING AND MODERNIZING HOSPITALS

Course learning outcome	Relation of course outcome with learning outcomes formulated for the major	Course objectives	Curriculum content
PEK_W01 KNOWLEDGE	K1AIU_W15	C1, C2	Lec1 – Lec8, Se1 – Se10
PEK_U01 (skills)	K1AIU_U24	C1, C2, C3, C4	Lec1 – Lec8, Se1 – Se10

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FACULTY OF ARCHITECTURE

COURSE SYLLABUS

Course title in Polish Designing Stylistic and Stylish Interiors
Academic major (if applicable): Architecture
Specialization (if applicable): …….. Architecture
Course level and study mode: second cycle, full-time/part-time
Course type: elective
Course code: AUA107716wP
Group of courses YES

	Lecture	Tutorial	Lab	Project	Seminar
Number of contact hours	15			45	
Number of student workload hours				120	
Grading policy				Exam / Pass with grade*	
Mark (X) for final course in a group of courses				x	
ECTS points:				4	
including ECTS points for practical hours (P)				3	
including ECTS points for contact hours (CH)				1	

*delete as applicable

PREREQUISITES RELATING TO KNOWLEDGE, SKILLS AND OTHER COMPETENCIES

1. KNOWLEDGE

Knowledge of technical problems related to designing and construction of architectural structures

2. SKILLS:

Ability to analyze and distinguish between historical styles in architecture and evaluate the relationship between functional, construction and aesthetic features in interiors. Ability to apply different methods of composition, technology and materials in presenting architectural concepts: ability to use freehand drawing techniques and knowledge of computer-aided architectural design software.

3. OTHER COMPETENCIES:

Ability to take into consideration the non-technical aspects of design (especially functional, psychological and aesthetic needs of future occupants in the proposed interiors).

COURSE OBJECTIVES

C1 - To introduce students to the basic problems of designing different types of interiors of a representative character.
C2- To acquaint students with the influence of functional requirements on the spatial organization and interior design.
C3 - To develop skills in designing interiors in a specific historic style or historicizing style.
C4- To present the possibilities of applying diversified solutions related to materials, finishes, decorations and aesthetics.
C5- To develop skills in applying appropriate color solutions in old and contemporary interiors.
C6 - To acquaint students with the development prospects of styles and technology in interior

design.
C7 - To develop skills in designing and presenting medium-complex architectural concepts

COURSE LEARNING OUTCOMES

1. KNOWLEDGE

PEK_W01:
Demonstrate systematic and theoretically grounded general knowledge of designing selected types of historic interiors in specific styles. Demonstrate rudimentary knowledge of the historical construction techniques that affect the design and construction of facilities of this type in the past.

PEK_W02:
Demonstrate knowledge of functional values of interior design in the past.

PEK_W03:
Demonstrate general knowledge of orders in architecture and aesthetic values of selected types of interiors. Identify basic rules of composition and systems of stylish and stylized forms.

PEK_W04:
Understand the relationships and dependencies between historic interiors and the non-technical aspects that influence the architectural solutions and aspects of society, culture, environment, location, etc.

2. SKILLS:

PEK_U01:
Integrate and apply technical and non-technical knowledge in solving a design problem pertaining to an interior in a small scale building, room, as well as elements of finishes and furnishings

PEK_U02:
Understand the cultural constraints and the mutual relations between the structure and the historic social surroundings. Demonstrate the ability to create functional - spatial program of a structure in accordance with former and modern functional, technical and aesthetic requirements.

PEK_U03:
Create a basic conceptual architectural design of historic interior design and contemporary historicizing interior, taking into account the functional - spatial solutions and technical solutions pertaining to general construction, finishes and furnishings.

PEK_U04:
Demonstrate the ability to apply traditional and electronic technical means in presenting architectural concepts. Prepare documentation for the design task using computer aided design software. Use appropriate computer design tools to simulate the proposed space and verify the correctness of interior elements, including the method of design, function and stylistic appeal.

3. SOCIAL COMPETENCIES

PEK_K01:
Understand the role of non-technical aspects and consequences of designing historic interiors, and

especially the impact on the welfare of old buildings and the associated responsibility for decisions. PEK_K02: Understand the importance of interior design and its impact on the quality of life of modern society in a historic environment.

CURRICULUM CONTENT		
Mode of teaching - lectures		**Number of hours**
Lec1	**Organizational meeting, justification of the need to complete the course**	**1**
Lec2	**Former techniques of erecting buildings**	**1**
Lec3	**Historic evolution of forms of residential development**	**1**
Lec4	**Evolution of the functional structure of residential interiors**	**1**
Lec5	**Work and leisure spaces (representative rooms, bedrooms)**	**1**
Lec6	**Work and leisure spaces (kitchens and storage spaces)**	**1**
Lec7	**Work and leisure spaces (bathrooms), examples**	**1**
Lec8	**Permanent indoor enclosures (ceilings and floors), examples**	**1**
Lec9	**Permanent indoor enclosures (door and window woodwork)**	**1**
Lec10	**Permanent indoor enclosures (stairs and wall cladding)**	**1**
Lec11	**Heating of rooms (furnaces, stoves, fireplaces, heaters, etc.)**	**1**
Lec12	**Artificial lighting (flame, electric)**	**1**
Lec13	Furniture (mobile and integrated)	1
Lec 14	Additional features in interiors (drapes, paintings, clocks, sculptures, etc.)	1
Lec15	Interior colors	1
	Total hours	15

Mode of teaching - project		**Number of hours**
Pr1	Scope of the project, course completion requirements, literature. Overview of backgrounds and choice of project topics. Assignment of design topics to students.	3
Pr2	Definition of the style and functional program of the interior. Any graphic method.	3
Pr3	Interior concept. Function and structure vs building layout. Consultations.	3
Pr4	The size, proportions and covering of room. Arrangement of windows, doors, etc. Black and white graphic. Consultations.	3
Pr5	Functional and spatial concept of interior, determining the mood and decor, projections, typical cross sections, axonometric and perspective drawings. Black and white graphic. Consultations.	3
Pr6	Review of project, presentation and discussion.	3
Pr7	Functional and spatial concept of interior, determining the mood and decor, projections, typical cross sections, axonometric and perspective drawings. Black and white graphic. Consultations.	3

Pr8	Detailed functional and spatial concept of interiors, determining the mood and decor, projections, typical cross sections, axonometric and perspective drawings. Black and white graphic. Consultations.	3
Pr9	Detailed functional and spatial concept of interior, projections, typical cross sections, axonometric and perspective drawings. Samples of color and choice of materials. Consultations.	3
Pr10	Review of project, presentation and discussion.	3
Pr11	Functional and spatial concept of an interior. Selected detail in an interior. Samples of color and choice of materials. Consultations.	3
Pr12	Functional and spatial concept of an interior. Selected detail in an interior. Samples of color in a fragment of the project. Consultations.	3
Pr13	Functional and spatial concept of an interior - axonometric drawings and perspective. Colors of interiors, detail, principles of graphical presentation. Consultations.	3
Pr14	Colors of interiors, detail, principles of graphical presentation and mposition of project panels. Consultations.	3
Pr15	Submission of final project, A3 format. Assessment and credit.	3
	Total hours	45

TEACHING TOOLS
N1 -Expository lecture, multimedia presentation, problem-solving lecture. N2 - project presentations, case Study, consultation

ASSESSMENT OF ACHIEVEMENT OF LEARNING OUTCOMES

Assessment (F – formative (during the semester), S – summative (at the end of semester)	Number of learning outcome	Method of assessing the achievement of learning outcome
F1F1	PEK_W01, PEK_W02, PEK_W03,	Attendance at lectures – $\alpha_1 = 1$
F2F2	PEK_U01, PEK_U02, PEK_K01	Assessment of the content quality of the project – $\alpha_1 = 0{,}5$
F3F3	PEK_U03, PEK_K02, PEK_K01	Assessment for the presentation of problems covered by the project – $\alpha_1 = 1$
F4F4	PEK_U01	Assessment for graphic design of the project – α_3
P1= α_1 F1 where $\alpha_1 = 1$, total $\alpha = 1$		
P2= α_1 F2 + α_2F3 + α_3F4 where α_1=0,5; α_2=02; α_3=03; **total** $\alpha = 1$		

BASIC AND ADDITIONAL LITERATURE

BASIC LITERATURE:

[1] Camessaca E., Die geschichte des Hauser, E. A. Seemann Verlag 1983
[2] Hinz S., Wnętrza mieszkalne i meble, Arkady, 1980
[3] Kaesz G., Meble stylowe, Ossolineum 1990
[4] Koch W., Style w architekturze, Bertelsmann Publishing 1996
[5] Sienicki St., Historia architektury wnętrz mieszkalnych, Budownictwo i Architektura 1956
[6] Sienicki St., Wnętrza mieszkalne, Arkady, 1962
[7] Ramsey Ch., Architectural Graphic Standards, John Willey & Sons, 1988

ADDITIONAL LITERATURE:

[1] Bwer H., Deutsche Wohn- und Festraume aus 6 Jahrhunderten, Juliusz Hoffman 1912
[2] Calloway S., The elements of Style, Octopus Publishing Group Ltd. 1996
[3] Jacobeit S., Illustrierte Alltagsgeschichte des deutschen Volkes, Urania Verlag 1987 (3 tomy)
[4] Meier- Oberist E., Kulturgeschichte des Wohnens..., Ferdinand Holzmann Verlag 1956
[5] Schrader M., Bauhistorisches Lexikon, Edition Anderweit 2003
[6] zbiorowa, Geschichte des Wohnens, Wuestenrot Stiftung 1999 (5 tomów)
[7] Zeugner G., Barwa i człowiek, Arkady 1965

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EQUIVALENCY MATRIX OF LEARNING OUTCOMES FOR COURSE
Designing Stylistic and Stylish Interiors
WITH THE LEARNING OUTCOMES FOR ARCHITECTURE MAJOR
AND CONCENTRATION IN ARCHITECTURE

Course learning outcome	**Relation of course outcome with learning outcomes formulated for the major and specialization (if applicable)****	**Course objectives*****	**Curriculum content*****	**No. of teaching tool*****
PEK_W01	K2AIU W02, K2AIU W03, K2AIU W05, S2AR W01, S2AR_W03, S2AR_W04	01,03,04, C5, C6	Lec1 - Lec15	N1
PEK_W02	K2AIU W02, K2AIU W03, S2AR W01.S2AR W03, S2AR_W04	C1,C2, C3, 04, C7	Lec2 - Lec4	N1
PEK_W03	K2AIU W02, K2AIU W03, K2AIU W05, S2AR W01, S2AR_W04	C1,C2, C3, C4, C5, C6, C7	Lec2 - Lec4	N1
PEK_W04	K2AIU W03, K2AIU W05, S2AR W01, S2AR W03, S2AR_W04	C2, C6	Lec1 - Lec4	N1
PEK_U01	K2AIU U03, K2AIU U04, K2AIU_U06, S2AR_U01	01, C2, C3, 04, C5, 06	Pr2-Pr14, Lec5-Lec15	N1,N2
PEK_U02	K2AIU U01, K2AIU U06, S2AR_U01	C1.C2, C3, C4, C5	Pr2 — Pr14, Lec2-Lec15	N1,N2
PEK_U03	K2AIU U04, K2AIU U06, S2AR_U03, S2AR_U04	C6, C7	Pr2-Pr14, Lec5-Lec15	N2
PEK_U04	K2AIU U04, K2AIU U06, S2AR_U03, S2ARJJ04	C6, C7	Pr2 — Pr14	N2
PEK_K01	K2AIU K03, K2AIU K04, S2AR_K01, S2AR_K02	C1.C2, C3, C4, C5	Pr2- Pr14, Lec1 - Lec4	N1,N2
PEK_K02	K2AIU K03, K2AIU K04, S2AR K01, S2AR K02	C6	Pr2-Pr14, Lec1 - Lec4	N1,N2

** - enter symbols for learning outcomes related to the academic concentration/specialization
*** - from the table above

FACULTY OF ARCHITECTURE

COURSE SYLLABUS

DESIGN STUDY: INVENTIVE METHODS IN ARCHITECTURAL DESIGN

Course title in English Inventive Methods in Architectural Design
Academic major: ARCHITECTURE AND URBAN PLANNING
Study cycle and study mode: Second cycle, full-time / part-time
Course type: elective
Course code AUA107695wP
Group of courses YES

	Lecture	Tutorial	Lab	Project	Seminar
Number of contact hours	15			45	
Number of student workload hours				120	
Grading policy				**pass with grade**	
Mark (X) for final course in a group of courses				X	
ECTS points:				4	
including ECTS points for practical hours (P)				3	
including ECTS points for contact hours (CH)				1	

PREREQUISITES RELATING TO KNOWLEDGE, SKILLS AND OTHER COMPETENCIES

1. KNOWLEDGE

Knowledge of problems related to aesthetics, theory of architectural concepts and principles of spatial composition

2. SKILLS:

Ability to present architectural ideas in the form of freehand drawings.

3. OTHER COMPETENCIES:

Openness, creativity, active involvement in learning about architecture, art and science

COURSE OBJECTIVES

C1- To develop creativity and skills, stimulate creative thinking by applying inventive methods in architectural design.
C2- To introduce students to different methods of designing used by known architects
C3- To present strategies and methods of stimulating creative thinking in architecture
C4- To acquaint students with criterions for evaluating and interpreting architectural works as a tool for validating and choosing the best option from the possible solutions

COURSE LEARNING OUTCOMES

Related to knowledge:

PE_W01 Demonstrate theoretically grounded knowledge in theory of architecture, including: History of architectural ideas and manifestos
PE_W02 Demonstrate theoretically grounded knowledge in theory of aesthetics, including: criterions of evaluating and interpreting a work of architecture

PE_W03 Demonstrate theoretically grounded knowledge in theory of creativity, including: methods and strategies of designing, efficiency and algorithm of decision-making

PE_W04 Describe the principles of composition and principles of creating architectural forms, including problems related to durability (*firmitas*), utility (*utilitas*) and beauty (*venustas*) in architecture

PE_W05 Define basic features of contemporary architecture styles and recognize the most recent trends in developing architectural forms

Related to skills:

PE_U01 Demonstrate the ability to retrieve information from literature of the subject, databases and other sources, draw conclusions and formulate and justify opinions, and interpret such information in the form of freehand drawings

PE_U02 Demonstrate creativity by using a modern language of architectural forms

PE_U03 Demonstrate innovation in developing structural-technological problems of architecture

PE_U04 Present an architectural concept in a graphically appealing manner

PE_U05 Work individually and in a team, prepare an architectural design in accordance with the adopted work schedule

PE_U06 Demonstrate skills in self-teaching and develop critical thinking

Related to social competencies:

PE_K01 Demonstrate openness, creativity, and active involvement in learning about architecture, art and science, and in continuous development of architectural skills

PE_K02 Demonstrate readiness to improve professional, personal and social competencies and to expand thinking horizons

CURRICULUM CONTENT		
Mode of teaching - lectures		**Number of hours**
Lec1	Introduction to theory of creativity: How to stimulate creative thinking? Plagiarism and creation in architecture	1
Lec2	Designs of famous architects. Creativity and designing methods: Le Corbusier	1
Lec 3	Designs of famous architects. Creativity and designing methods: Mies van der Rohe	1
Lec 4	Designs of famous architects. Creativity and designing methods: Alvar Aalto	1
Lec 5	Designs of famous architects. Creativity and designing methods: Mario Botta	1
Lec 6	Kitsch vs a work of architecture: architectural criticism	1
Lec7	Designs of famous architects. Creativity and designing methods: Archigram and Haus-Rucker.Co	1
Lec 8	Designs of famous architects. Creativity and designing methods: Ricardo Bofill	1
Lec 9	Designs of famous architects. Creativity and designing methods: Norman Foster	1
Lec10	Evaluation and interpretation of a work of architecture	1
Lec 11	Designs of famous architects. Creativity and designing methods: Gustav Peichl	1

Lec 12	Study of the behavior of users	1
Lec 13	Designs of famous architects. Creativity and designing methods: Tadao Ando	1
Lec 14	Designs of famous architects. Creativity and designing methods: Jean Nouvel	1
Lec 15	Efficiency in creativity – algorithm of decision-making	1
	Total hours	**15**

Mode of teaching - project		**Number of hours**
Pr1	Intuitive methods: circept (workshop)	3
Pr2	Intuitive methods: crushing (workshop)	3
Pr3	Intuitive methods: superposition (workshop)	3
Pr4	Intuitive methods: totems (workshop)	3
Pr5	Intuitive methods: discovery matrix (workshop)	3
Pr6	Presentation of projects and discussion	3
Pr7	Creative methods: teratos (workshop)	3
Pr8	Creative methods: lambda (workshop)	3
Pr9	Creative methods: Altszuller method (workshop)	3
Pr10	Methods of visual inconsistencies Presentation of projects and discussion	3
Pr11	Creative methods: Gordon method (workshop)	3
Pr12	Universal methods: method of identification with the user (warsztaty)	3
Pr13	Universal methods: brainstorming (workshop)	3
Pr14	Universal methods: visual transposition (workshop)	3
Pr15	Presentation of projects and discussion. Credit	3
	Total hours	**45**

TEACHING TOOLS
N1. for lectures: **multimedia presentation, problem-solving lecture** N5. for project: **project presentation, designing workshop,**

ASSESSMENT OF ACHIEVEMENT OF LEARNING OUTCOMES

Assessment (F – formative (during the semester), S – summative (at the end of semester)	Number of learning outcome	Method of assessing the achievement of learning outcome
F1	PE_W01, PE_W02, PE_W03, PE_W04, PE_W05, PE_U05, PE_U06, PE_K01, PE_K02	Pass with grade - α_1=1
F2	PE_U01, PE_U02,	Grade for functional-spatial innovation of the project (*utilitas, venustas*) - α_1=0,4

	PE_K01, PE_K02	
F3	PE_U01, PE_U03, PE_K01, PE_K02	Grade for structural-technological innovation of the project (*firmitas*) - $\alpha_{2=}0,4$
F4	PE_U01, PE_U04, PE_K01	Grade for the graphical appeal of the project $\alpha_{3=}0,2$
P 1= α_1 F1 where α_1=1, Σ α = 1 P 2= α_1 F2 + α_2F3 + α_3F4, where α_1=0,4 α_2=0,4 α_3=0,2 Σ α = 1		

P1 - Final grade for lecture in the form of a report: architect's sketchbook

P2 - Final grade for project (weighted average: functional and spatial innovation – 40% , structural and technological innovation - 40% and graphical appeal 20%).

BASIC AND ADDITIONAL LITERATURE

BASIC LITERATURE:

[231] Buzan, Tony, Buzan, Barry, *Mapy twoich myśli,* (*The Mind Map Book. Radiant Thinking: The Major Evolution in Human Thought*), Warszawa, Łódź: Ravi, 1998.

[232] Conrads, Ulrich, *Programs and Manifestoes on the 20 th –Century Architecture*, Cambridge: The MIT Press, 1990.

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[234] Eco, Umberto, *Dzieło otwarte: Forma i nieokreśloność w poetykach współczesnych*, Warszawa: Czytelnik, 1994.

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[238] Nesbitt, Kate, *Theorizing a New Agenda for Architecture: An Anthology of Architectural Theory 1965-1995*, New York: Princeton Architectural Press, 1996.

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[240] Spiller, Neil, *Visionary Architecture: Blueprints of the Modern Imagination*. London: Thames&Hudson, 2006.

ADDITIONAL LITERATURE:

[147] Alleva de, Anne, *Metody i teorie historii sztuki* (*Methods and Theories of Art History*), Kraków: Universitas, 2008

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[151] Cohen, Jean-Louis, *Le Corbusier: The Lyricism of Architecture in the Machine Age*, London: Taschen, 2004.

[152] Giedion, Sigfried, *Space, Time and Architecture: The Growth of a New Tradition*, Harvard University Press, 2008

[153] *Haus-Rucker-Co 1967 bis 1983*, Braunschweig, Wiesbaden: Friedr.Vieweg und Sohn, 1984.

[154] Jencks, Charles, *Le Corbusier – tragizm współczesnej architektury*, Warszawa: WAiF, 1982.

[155] Ricoeur, Paul, *Język, tekst, interpretacja*, Warszawa: PIW, 1989.

[156] Spiller, Neil, *Digital Architecture Now: A Global Survey of Emerging Talent*, London: Thames & Hudson Ltd., 2008.

COURSE ADVISOR (NAME, SURNAME, E-MAIL)

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EQUIVALENCY MATRIX OF LEARNING OUTCOMES FOR COURSE
DESIGN STUDY: INVENTIVE METHODS IN ARCHITECTURAL DESIGN
WITH THE LEARNING OUTCOMES FOR ARCHITECTURE AND URBAN PLANNING MAJOR
AND CONCENTRATION IN **ARCHITECTURE**

Course learning outcome	**Relation of course outcome with learning outcomes formulated for the major and concentration**	**Course objectives**	**Curriculum content**	**No. of teaching tool**
PEK_W01 (knowledge)	**K2AiU_W02** **K2AiU_W04** **K2AiU_W08** **S2AR_W01** **S2AR_W02** **S2AR_W03**	C2, C4	Lec1-Lec15	N1
PEK_W02	**S2AR_W01**	C2, C4	Lec1, Lec10 Pr10	N1,N5
PEK_W03	**S2AR_W03**	C2, C3	Lec1-Lec15 Pr1-Pr15	N1, N5
PEK_W04	**S2AR_W02** **S2AR_W03**	C2, C4	Lec1, Lec6, Lec12	N1
PEK_W04	**S2AR_W02** **S2AR_W03**	C1, C4	Lec1-Lec15	N1
PEK_U01 (skills)	**S2AR_U01**	C1	Lec1, Lec15 Pr1-Pr15	N1, N5
PEK_U02	**K2AiU_U01** **K2AIU_U04** **K2AIU_U05** **S2AR_U03**	C1, C3	Lec1 Pr1-Pr15	N1, N5
PEK_U03	**K2AiU_U01** **S2AR_U04** **S2AR _U07**	C1, C2, C3	Pr1-Pr15	N5
PEK_U04	**K2AiU_U01** **S2AR_U03**	C1, C4	Pr6, Pr10, Pr15	N5
PEK_U05	**K2AiU_U01** **S2AR_U04**	C1, C3	Lec7 Pr10-Pr13	N1, N5
PEK_U06	**K2AiU_U01**	C1, C4	Pr1-Pr15	N5
PEK_K01 (kompetencje)	*K2AIU_K02*	C1	Pr1-Pr15	N5
PEK_K02	**K2AIU_K02**	C3, C4	Pr1-Pr15	N5

Zał. nr 3 do ZW

Faculty of Architecture of WrUT

COURSE SYLLABUS

Design Study: Regeneration - designing multi-active areas

Course title in English Design Studio: Regeneration: design of mixuse areas
Academic major: **ARCHITECTURE AND URBAN PLANNING**
Study cycle and study mode: Second cycle, full-time / part-time
Course type: elective
Course code: AUA107707wP
Group of courses: YES

	Lecture	Tutorial	Lab	Project	Seminar
Number of contact hours	15			45	
Number of student workload hours				120	
Grading policy				credit	
ECTS points:				4	
				X	
Including ECTS points for practical hours (P)				3	
Including ECTS points for contact hours (CH)				1	

PREREQUISITES RELATING TO KNOWLEDGE, SKILLS AND OTHER COMPETENCIES

Knowledge of principles of composition, functions of functional and spatial structures, technical infrastructure at the level of district, principles of creating functional program, principles of design presentations

COURSE OBJECTIVES

C1. To develop knowledge, taking into account aspects of its applications, related to design of independent functional and spatial structures in an urban environment with a suitable definition of the functional program and supporting technical infrastructure.
C2. To develop skills in understanding, interpretation and quantitative analysis of the output factors as the basis for urban analysis
C3. To develop and consolidate social skills related to emotional intelligence involving the skills in cooperation in a student group aimed at effective problem solving. Responsibility, honesty and reliability in conduct: respecting the rules that govern academic and social environments.

COURSE LEARNING OUTCOMES

I. Related to knowledge: **Demonstrate knowledge of urban composition, propose the right tools of urban planning analysis, name and to characterize elements of the functional-spatial structure, indicate possible variants of solutions and then choose an optimal solution, describe the process of formation of structure and explain rules of operation in the city fabric**

PEK_W01 - identify and determine the components of technical infrastructure
PEK_W01 - identify and understand the relationships between elements of the spatial structure
PEK_W03 - demonstrate knowledge of determining the size of residential structures and the needs of residents
PEK_W04 - demonstrate knowledge of determining the size of service structures and the needs of users
PEK_W05 - determine the communication links with the rest of the city structure
PEK_W06 - demonstrate knowledge of the hierarchy of services and is able to determine the size of the center-forming services

PEK_W07 - identify and distinguish a group of residential and non-residential services
PEK_W08 - demonstrate knowledge of the design and functioning of the public and private space
PEK_W09 - determine the parameters of intensity, depending on the expected character of the proposed multi-active complex with a diversified program
PEK_W10 - perform a critical analysis of variants of the project
PEK_W11 - propose a solution that meets the established functional and spatial criteria
PEK_W12 - identify rules of presentation

II. Related to skills: Properly and effectively apply the learned laws of physics in the qualitative and quantitative analysis of selected physical engineering problems

PEK_U01 – demonstrate skills in identifying elements of technical and functional infrastructure on project area
PEK_U02 - Demonstrate the ability to recognize the potential of project area and define the basic advantages and disadvantages
PEK_U03 - Demonstrate the ability to analyze the links of project area with surrounding areas
PEK_U04 - determine the parameters of range and access to basic elements of public transport
PEK_U05 - Develop a variant of functional and spatial idea for project area with the appropriate classification of features
PEK_U06 - determine the functional program and prepare area summary for the studies area
PEK_U07 - determine the functional program for the studied area
PEK_U08 create a land development plan.
PEK_U09 - develop and present the results of project work (paper report)
PEK_U10 - present the idea in multimedia form with participation in the discussion of the essential objectives of the project

III Related to social competencies: Develop and consolidate competencies in:

PEK_K01 – searching for information and its critical analysis,
PEK_K02 – working in a team and cooperating in order to improve methods of choosing strategy aimed at finding optimal solutions to problems assigned to the team,
PEK_K03 – understanding the necessity of self-education, including improvement of skills of attention and concentration on significant things and development of the ability to apply the existing skills and knowledge,
PEK_K04 – developing the ability of self-assessment and self-control and the responsibility for the results of performed actions,
PEK_K05 – respecting the rules and customs that govern academic environments.
PEK_K06 – thinking independently and creatively,
PEK_K07 – the influence of achievements related to theory of architecture and urbanism on technological, social development and environmental protection,
PEK_K08 – objectively evaluating arguments, rationally explaining and substantiating one's opinion using knowledge of architecture and urban planning.

CURRICULUM CONTENT

Mode of teaching - lectures		Number hours
Lec 1	Scope of the lecture, course completion requirements, literature. Description of the project area. Spatial program and provisions.	1
Lec 2	Overview of notions of brownfield and greenfield and the influence on strategy of revitalization activities in the city	1
Lec 3	Overview of methods of searching for solutions to problems	1
Lec 4	Overview of contemporary urban strategies	1
Lec 5	Creative explorations - overview of examples of the transformation of coastal areas	1
Lec 6	Creative explorations - overview of examples of the transformation of post-railroad areas	1
Lec 7	Creative explorations - overview of examples of the transformation of brownfields	1

Lec 8	Determining the potential of the place and needs of the residents of housing areas	1
Lec 9	Determining the potential of the space and the needs of users of center-forming services	1
W-d 10	Overview of principles of rendering communication services	1
W-d 11	Overview of principles of creating technical infrastructure	1
W-d 12	Creation and functioning of public and private space	1
W-d 13	Creating green and recreational areas.	1
W-d 14	Overview of strategies and staging of investments	1
W-d 15	Overview of selected planning provisions	1
	Total hours	**15**

Mode of teaching - project		Number Hours
Pr.1	Scope of the project, course completion requirements, literature. Introduction and discussion of issues	3
(PR) 2	Overview and summary of the problems associated with projects. Students' individual project work.	3
(PR) 3	Overview and summary of the problems associated with projects. Students' individual project work.	3
(PR) 4	Presentation of project idea, discussion and overview of presentation results.	3
(PR) 5	Students' individual project work.	3
(PR) 6	Students' individual project work.	3
(PR) 7	Students' individual project work.	3
(PR) 8	Concept presentation, discussion and overview of presentation results.	3
(PR) 9	Students' individual project work.	3
(PR) 10	Students' individual project work.	3
(PR) 11	Students' individual project work.	3
(PR) 12	Students' individual project work.	3
(PR) 13	Students' individual project work.	3
(PR) 14	Students' individual project work.	3
(PR) 15	Presentation of Regeneration Project and submission of final projects. Credit	3
	Total hours	**45**

TEACHING TOOLS
1. Expository lecture with elements of problem-solving lecture. 2. Multimedia presentations 3. Problem-oriented discussion as part of the project. 4. Presentation of topics by invited guest - a representative of the city 5. Presentation of the project, with a discussion of the basic design objectives 6. Consultations. 9. Individual work – preparation for tutorial. 10. Individual work – study and preparation for the final examination.

ASSESSMENT OF ACHIEVEMENT OF LEARNING OUTCOMES

Assessment (F – formative (during the semester), S – summative (at the end of semester)	Number of learning outcome	Method of assessing the achievement of the learning outcome

F1	PEK_U01 ÷ PEK_U10; PEK_K01 ÷ PEK_K08	discussions, preliminary presentations
F2	PEK_W01 ÷ PEK_W11; PEK_U01 ÷ PEK_U10 PEK_K03 ÷ PEK_K07	Presentation of project, written and oral exam
P = F2		

BASIC AND ADDITIONAL LITERATURE

BASIC LITERATURE:

[241] Bogdanowski J., Kompozycja i planowanie w architekturze krajobrazu, Ossolineum 1976
[242] Chmielewski J., Teoria Urbanistyki w projektowaniu i planowaniu miast, Oficyna wydawnicza PW, Warszawa 2001
[243] Czarnecki W., Planowanie miast i osiedli, PWN, Warszawa 1970
[244] Gehl Jan, Życie między budynkami, Warszawa 2010
[245] Korzeniewski Władysław, Budownictwo mieszkaniowe. Poradnik projektanta, Arkady, Warszawa 1989
[246] Nowakowski M., Komunikacja a kształtowanie centrum miasta, Arkady, Warszawa 1976
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ADDITIONAL LITERATURE:

[157] Adamczewska-Wejchert Hanna, Kształtowanie Zespołów Mieszkaniowych, Arkady Warszawa 1985
[158] Kononowicz Wanda, Wrocław. Kierunki rozwoju urbanistycznego w okresie międzywojennym, Oficyna Wydawnicza PWr. Wrocław 1997

ADDITIONAL LITERATURE IN ENGLISH:

[9] Alexander Ch., Angel S., A pat tern Language, New York 1977
[10] Ching Francis D.K., Architecture, Space & Order, Van Nostrand Reinhold, Rotterdam 1996
[11] Eisenmann P., Frankfurt Rebstock Park – Folding in time, Prestel Verlag, Munchen 1992
[12] Ibelings H., The artificial Landscape, , Contemporary Architecture, NAi Publishers
[13] LLevelyn-Davies, Urban Design Compendium 1 & 2, www.urbandesigncompendium.co.uk
[14] Lynch K., The image of the city, MIT Press, Cambridge 1960
[15] Rossi A., The architecture of the city, MIT Press, Cambridge 1984
[16] Tschumi B., Event city, MIT Press, Cambridge 1982

COURSE ADVISOR (NAME, SURNAME, E-MAIL)

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EQUIVALENCY MATRIX OF LEARNING OUTCOMES FOR COURSE
Design Study: Regeneration - designing multi-active areas
WITH THE LEARNING OUTCOMES FOR ARCHITECTURE AND URBAN PLANNING MAJOR

Course learning outcome	Relation of course outcome with learning outcomes formulated for the major and concentration	Course objectives	Curriculum content	Number of teaching tool
S2AR_W04	**OT2A_W04** **OT2A_W07** **OT2A_W08**	C 1	Wd-4	1,2,6,7,8
S2AR_W05	**OT2A_W02** **OT2A_W06**	C 1	Wd-2,3,5,7	1,2,6,7,8
S2AR_W06	**OT2A_W03** **OT2A_W08**	C 1	Wd-1,2,3,14,15	1,2,6,7,8
S2AR_U03	**OT2A_U11**	C 2	Pr-4,8,15	3,4,5

	OT2A_U12			
S2AR_U04	**OT2A_U11** **OT2A_U16** **OT2A_U18**	C 2	Pr-4,8,15	3,4,5
S2AR_K01	**OT2A_K08**	C 3		1-6
S2AR_K02	**OT2A_K01**	C 3		7.8

FACULTY OF ARCHITECTURE

COURSE SYLLABUS

DESIGN STUDY: DESIGNING ARCHITECTURAL DETAIL

Academic major: ARCHITECTURE AND URBAN PLANNING
Specialization: ARCHITECTURE
Study cycle and study mode: Second cycle, full-time / part-time
Course type: elective
Course code: AUA107699wP
Group of courses: YES

	Lecture	Tutorial	Lab	Project	Seminar
Number of contact hours	15			45	
Number of student workload hours				120	
Grading policy				**pass with grade**	
Mark (X) for final course in a group of courses					
ECTS points:				4	
including ECTS points for practical hours (P)				3	
Including ECTS points for contact hours (CH)				21	

PREREQUISITES RELATING TO KNOWLEDGE, SKILLS AND OTHER COMPETENCIES

1. KNOWLEDGE

Knowledge of technical problems related to designing and construction of architectural structures

2. SKILLS: Ability to analyze the structure of the building; ability to express architectural ideas and concepts in the construction and material structure of a building; ability to create a building and architectural detail.

Ability to apply different techniques and materials in presenting architectural concepts: knowledge of computer-aided architectural design software.

Use specialized computer aided design software.

3. OTHER COMPETENCIES: Take into consideration the non-technical aspects of design, in particular the relations between man and architecture.

COURSE OBJECTIVES

C1 - To introduce students to the basic problems of designing architectural detail
C2- To acquaint students with the influence of requirements and technological processes and characteristics of materialson the development of an architectural and building structure
C3- To present architectural details created in modern structures
C4- To develop skills in using the language of design to describe own architectural idea
C5 - To introduce students to development prospects in in designing architectural detail.
C6 - To develop skills in designing, recording and presenting details of medium-complex architectural projects

COURSE LEARNING OUTCOMES

Related to knowledge:

K2AiU_W01

Identify basic methods of psychology.

Demonstrate basic knowledge needed to understand the social and psychological circumstances of engineering work.

Retrieve information from databases, interpret the obtained data, critically evaluate, draw conclusions and formulate and justify opinions.

Identify basic methods of engineering ethics. Demonstrate basic knowledge needed to understand the ethical and social circumstances of engineering work.

K2AiU_W04

Demonstrate theoretically grounded detailed knowledge of theory and principles of architectural design of functionally and spatially complex commercial facilities and workplaces.

K2AiU_W08

Demonstrate systematic knowledge of developing architectural form on the basis of a structural system, identify basic structural systems, understand the influence of the shape of elements on their structural properties, define criteria for selecting and select a structural system for a given functional system, characterize and suggest the main element of contemporary advanced structural systems.

Related to skills:

K2AiU_U05

Create a complex architectural design of commercial buildings and workplaces including the surrounding area – in accordance with technical, usability, aesthetic and cultural.

Integrate and creatively combine the function, form, structure and technology in an architectural design of a commercial facility or workplace.

K2AiU_U09

Compare and analyze the applicability of different structural system in a given situation, obtain information from literature, databases and other sources, design the general structural system and main structural elements, use computer aided design tools in calculating the distribution of internal forces, create preliminary designs of basic structural details.

PE_U02: Understand the cultural environment and the mutual relations between the structure and its surroundings. Create a basic architectural design of commercial architecture, which takes into consideration the functional and spatial solutions and technical solutions: buildings, structural and installation solutions.

PE_U03: Apply contemporary techniques and materials in presenting architectural concepts. Prepare documentation related to the design task using computer aided design software. Use appropriate computer aided design tools to simulate, design and verify elements.

Related to social competencies:

K2AiU_K01

Understand the need for self-learning, identify their strengths and limitations and define the direction of their future career.

K2AIU_K03

Demonstrate an awareness and understanding of the importance of non-technical aspects and consequences of the engineer's work and the responsibility for decisions.

K2AIU_K05

Understand the social responsibility of the architectural profession.

CURRICULUM CONTENT		
Mode of teaching - lectures		**Number of hours**
Lec1	The form and matter of an architectural structure. Architectural detail.	2
Lec2	Architect's tool vs the reality of implementaion	2
Lec3	Detail vs decoration. Two details - technological and architectural.	2
Lec4	Dialectics of development of material. Time of building; time of materials	2
Lec5	Extreme states of building and its details; usage.	2
Lec6	Adjacency of a building and its window with the area; the cornice and attic of the building; the entrance of the building	1
Lec7	Stairs and balustrades	1
Lec8	Materials and the structure of the elevation of the building; identification elements	2
Lec9	Rules of coordination between trades	1
	Total hours	**15**

Mode of teaching - project		**Number of hours**
Pr1	Introduction to designing, definition of requirements and form of the course. The subject of the course, assignment of building fragments for architectural detail design of the building designed in the course of the 4th year Designing Commercial Architecture.	3
Pr2	In-class assignment - proposed materials, technology and spatial design of a selected fragment of the building designed in the 4th year.	3
Pr3	Analysis of the project idea based on the completed in-class assignment. Overview of the justification for selected materials. Consultations.	3
Pr4	Analysis of external influence on selected architectural details. Choice of the best solution for the detail. Critiques in groups.	3
Pr5	Individual corrections. Analysis of building structure and its detail. Choice of the best material for the architectural detail.	3
Pr6	Individual corrections. Discussion of the detail implementation, craftsmanship, fitting problems, etc.	3
Pr7	Corrections in groups. Overview of alternative solutions of architectural details implemented in published examples or instruction manuals.	3
Pr8	In-class assignment. Investor's identification elements in the architectural detail of the entrance to the building.	3
Pr9	Review of results of the in-class assignment.	3
Pr10	Further detail studies and their mutual coordination in projections, sections and elevations. Individual corrections.	3
Pr11	Analysis of elevation design.	3
Pr12	Designing elevations , floors and ceilings. Individual corrections.	3

Pr13	Individual corrections. Improvement and revision of detail solutions, conformity of projections with sections and elevations.	3
Pr14	Mid-course review of projects. Discussion, instructor's comments. Summary of the necessary corrections.	3
Pr15	Presentation and submission of the project. Assessment and credit.	3
	Total hours	**45**

TEACHING TOOLS
EXAMPLE: N1. for lectures: **problem-solving lecture** N2. for project: project presentation, consultations

ASSESSMENT OF ACHIEVEMENT OF LEARNING OUTCOMES

Assessment (F – formative (during the semester), S – summative (at the end of semester)	Number of learning outcome	Method of assessing the achievement of learning outcome
F1	PE_W01, PE_W02, PE_W03, PE_W04, PE_K01	Oral examination - $\alpha_{1=}1$
F2	PE_U01, PE_U02, PE_K01	Assessment of the contents of the project- $\alpha_{1=}0,6$
F3	PE_U03	Assessment for the presentation of problems covered by the project - $\alpha_{2=}0,2$
F4	PE_U03	Grade for the graphical appeal of the project $\alpha_{3=}0,2$
P 1= α_1 F1 where α_1=1, Σ α = 1 P 2= α_1 F2 + α_2F3 + α_3F4, where α_1=0,6, α_2=02, α_3=02, Σ α = 1		

P1 - Final grade for oral examination

P2 - Final grade for project (weighted average: for projects – 60% , for presentations - 20% and graphical appeal 20%).

BASIC AND ADDITIONAL LITERATURE

BASIC LITERATURE:

[248] **DETAIL** - czasopismo
[2] technological information and solutions of manufacturers and producers of building elements; instructional materials of producers of building materials and construction
[3] Rozporządzenie Ministra Infrastruktury z dnia 12 kwietnia 2002 r. w sprawie warunków technicznych, jakim powinny odpowiadać budynki i ich usytuowanie (Dz. U. Nr 75 z 15 czerwca 2002 r., poz. 690)
[4] Stanisław Lose "detal architektoniczny" Raport PWr. 2005 (manuscript)

ADDITIONAL LITERATURE:

Attestations and approval certificates of the Building Research Institute

COURSE INSTRUCTOR (NAME, SURNAME, E-MAIL)

Stanisław Lose PhD; stanislaw.lose@pwr.wroc.pl;

EQUIVALENCY MATRIX OF LEARNING OUTCOMES FOR COURSE
DESIGN STUDY: DESIGNING ARCHITECTURAL DETAIL
WITH THE LEARNING OUTCOMES FOR ARCHITECTURE AND URBAN PLANNING MAJOR

Course learning outcome	Relation of course outcome with learning outcomes formulated for the major and concentration	Course objectives	Curriculum content	Number of teaching tool
PE_W01	**K1AIU_W01, K1AIU_W07, K1AIU_W09, K1AIU_W16, K1AIU_W21,**	C1, C2,C3, C4, C5	Lec1-Lec8	N1
PE_W02	**K1AIU_W01, K1AIU_W21 K1AIU_W15,**	C1, C2,C3, C4, C5	Lec1, Lec2,Lec4,Lec6, Lec8	N1
PE_W03	**K1AIU_W01, K1AIU_W21, K1AIU_W23, K1AIU_W26,**	C1, C2,C3, C4, C5	Lec3, Lec5,	N1
PE_W04	**K1AIU_W01, K1AIU_W21, K1AIU_K02,**	C1, C2,C3, C4, C5	Lec1, Lec2, Lec6,Lec7, Lec8,	N1
PE_U01	**K1AIU_U08, K1AIU_U17, K1AIU_U19,**	C1, C2,C3, C4, C5,C6	Pr2 – Pr14, Lec2,Lec7,Lec8	N1,N5
PE_U02	**K1AIU_U08, K1AIU_U18, K1AIU_U19,**	C1, C2,C3, C4, C5,C6	Pr2 – Pr14, Lec3, Lec4, Lec5, Lec6, Lec7,	N1,N5
PE_U03	**K1AIU_U16, K1AIU_U19 K1AIU_U21,**	C1, C2,C3, C4, C5,C6	Pr2 – Pr14,	N1,N5

PE_K01	**K1AIU_K02**	C1, C2,C3, C4, C5,C6	Pr2 – Pr14, Lec1,Lec2	N1,N5
PE_K02	**K1AIU_K06** **K1AIU_K08**	C1, C2,C3, C4, C5,C6	Pr1 – Pr10, WyWy1,Lec2, Lec7, Lec8	N1,N5

FACULTY OF ARCHITECTURE

COURSE SYLLABUS

Course title in Polish
Ergonomic Design of Hygiene and Sanitation Areas and Facilities
Academic major (if applicable):Architecture
Specialization (if applicable): Architecture
Course level and study mode: second cycle, full-time/part-time
Course type: elective
Course code AUA107718wP
Group of courses YES

	Lecture	Tutorial	Lab	Project	Seminar
Number of contact hours	15			45	
Number of student workload hours				120	
Grading policy				pass with grade*	
Mark (X) for final course in a group of courses				x	
ECTS points:				4	
including ECTS points for practical hours (P)				3	
including ECTS points for contact hours (CH)				1	

*delete as applicable

PREREQUISITES RELATING TO KNOWLEDGE, SKILLS AND OTHER COMPETENCIES

1. KNOWLEDGE:

Basic understanding of technical problems related to functional and spatial design of architectural structures.

2. SKILLS:

Ability to apply different techniques and materials in presenting architectural concepts. Knowledge of computer-aided architectural design software and the ability to use them.

COURSE OBJECTIVES

C1 - To introduce students to the basic problems of designing different types of sanitary facilities
C1.1 - Legal issues- regulations, law, norms etc.
Cl .2 - Ergonomics issues
C1.3 - Technical and construction issues
C2 - To develop skills in practical application of knowledge related to the aforementioned problems in the designing process of sanitary facilities

COURSE LEARNING OUTCOMES

Related to knowledge:

PEK_W01:

Demonstrate systematic theoretical general knowledge of designing sanitary facilities in residential and commercial buildings.

PEK_W02:

Demonstrate knowledge of regulations and law pertaining to designing sanitary facilities in residential and commercial buildings.

PEK_W03:

Demonstrate knowledge of ergonomic design of sanitary facilities and zones. Understand the concept of „ergonomic design".

PEK_W04:

Demonstrate knowledge of technical and construction issues related to designing sanitary facilities and zones.

Related to skills:

PEK_U01:

Apply the aforementioned theoretical knowledge in practical solutions to designing problems pertaining to developing sanitary facilities and zones.

PEK_U02:

Create a basic architectural design and interior design of sanitary facilities and zones in residential and commercial buildings, which incorporate functional and spatial solutions as well as solutions pertaining to building technology, structure, building services, equipment and materials.

PEK_U03:

Apply contemporary diversified technical and material media to present an architectural concept. Prepare technical documentation pertaining to the project assignment using computer-aided design software.

Related to social competencies:

PEK_K01:

Understand the broadly understood problems of designing ergonomic sanitary facilities and zones and their influence on the comfort and quality of life of all members of contemporary society.

CURRICULUM CONTENT		
Mode of teaching - lectures		**Number of hours**
Lec 1	Evolution of sanitary zones throughout the centuries	2
Lec2	Development of technology and methods of using sanitary zones	2
Lec 3	Psychosocial aspects of designing sanitary zones	2
Lec 4	Contemporary concept of home bathroom	2

Lec 5	Contemporary the concept of sanitary facilities in commercial buildings	2
Lec 6	Ergonomic criteria of designing sanitary zones	2
Lec7	Possibilities of adapting existing sanitary facilities to contemporary needs of occupants	2
Lec 8	Legal and normative conditions in designing sanitary facilities	1
	Total hours	15

Mode of teaching - project		**Number of hours**
Pr1	Overview of the scope of the project and course completion requirements. List of literature. Assignment and overview of project topics and tasks.	3
Pr2	Analysis of the subject - schemes of relations of the sanitary zone with other functional zones. Consultations.	3
Pr3	Analysis of the subject - functional and spatial schemes, zoning. Consultations.	3
Pr4	Ergonomics analysis. Use of equipment. Spatial and mobility requirements of users. Consultations.	3
Pr5	Ergonomics analysis. Designing space occupied by equipment and the space needed to operate it. Consultations.	3
Pr6	Ergonomics analysis. Adapting sanitary zones for the needs of the disabled. Consultations.	3
Pr7	Ergonomics analysis. Use of sanitary zones by children. Consultations.	3
Pr8	Conceptual design of furnishings - sanitary equipment. Consultations.	3
Pr9	Analysis of the micro climate in sanitary zones. Conceptual design of elements of building services. Consultations.	3
Pr10	Conceptual design of elements of furniture. Consultations.	3
Pr11	Ergonomics analysis. Operational health and safety. Choice of finishing materials. Consultations.	3
Pr12	Conceptual design - choice of materials and colors. Consultations.	3
Pr13	Conceptual design of the whole - projections, characteristic sections. Consultations.	3
Pr14	Conceptual design of the whole - projections, characteristic sections, details. Consultations.	3
Pr15	Presentation and submission of the project. Assessment and credit.	3
	Total hours	45

TEACHING TOOLS
N1.for lectures: expository lecture, multimedia presentation N2.for project: presentation of project, consultation

ASSESSMENT OF ACHIEVEMENT OF LEARNING OUTCOMES

Assessment (F – formative (during the semester), S – summative (at the end of semester)	Number of learning outcome	Method of assessing the achievement of learning outcome
F1	PEK_W01, PEK_W02, PEK_W03, PEK_W04, PEK_KO1	Oral examination – α1 = l
F2	PEK_U01, PEK_U02, PEK_KO1	Assessment of the contents of the project - α l= 0.6
F3	PEK-U03	Assessment for the presentation of problems covered by the project - α 2= 0.2
F4	PEK-U03	Assessment for the graphics of the project - α3= 0,2
P1 = α 1Fl, where α l=l, total α =l P2 = α lF2+ α2F3+ α 3F4, where α l=0.6, α 2=0.2, α 3=0.2 total α =l		

BASIC AND ADDITIONAL LITERATURE

BASIC LITERATURE:

[1] Grandjean E., Ergonomia mieszkania. Aspekty fizjologiczne i psychologiczne w projektowaniu, Arkady, Warszawa 1978

[2] Rozporządzenie Ministra Infrastruktury z dnia 12.04.1992 w sprawie warunków technicznych, jakim powinny odpowiadać budynki i ich usytuowanie (Dz.U nr 75 poz. 690)

[3] Rozporządzenie Ministra Pracy i Polityki Socjalnej z dnia 26 września 1997 r. w sprawie ogólnych przepisów bezpieczeństwa i higieny pracy (Dz. U. Nr 169, poz. 1650)

[4] PN-78/B-01056 Budownictwo mieszkaniowe. Pomieszczenia sanitarne. Układy funkcjonalne i wyposażenie. Nazwy i określenia.

[5] Polska Norma PN-88/B-01058 Budownictwo mieszkaniowe. Pomieszczenia sanitarne w mieszkaniach. Wymagania koordynacyjne elementów wyposażenia i powierzchni funkcjonalnych.

[6] Komfort sanitarny - ogólne zasady projektowania i wyposażania hotelowych węzłów higieniczno-sanitarnych, BIMs PLUS Wrocław

[7] Budny J., Projektowanie dla wszystkich, Stowarzyszenie Przyjaciół Integracji, Warszawa 2004

ADDITIONAL LITERATURE:

[1] Bonneville (de Bonneville) F., The Book of the Bath, Rizzoli International Publication Inc., New York 1998
[2] Bemdt - Kostyrzewska J., Szymańska M., Programowanie przestrzeni mieszkalnej gospodarstwa domowego, Wydawnictwo SGGW, Warszawa 1992, s. 104-113
[3] Meyer-Boke W., Budownictwo dla osób starszych i niepełnosprawnych, Arkady, Warszawa 1996

COURSE ADVISOR (NAME, SURNAME, E-MAIL)

Anna Jaglarz, PhD anna.jaglarz@pwr.wroc.pl

EQUIVALENCY MATRIX OF LEARNING OUTCOMES FOR COURSE
Ergonomic Design of Hygiene and Sanitation Areas and Facilities
WITH THE LEARNING OUTCOMES FOR ARCHITECTURE MAJOR
AND CONCENTRATION IN ARCHITECTURE

Course learning outcome	Relation of course outcome with learning outcomes formulated for the major and concentration	Course objectives	Curriculum content	No. of teaching tool
PEK_W01	K2AiU_W01, K2AiU_W02, K2AiU_W03,K2AiU_W04, K2AiU_W08, K2AiU_W09 S2AR_W03, S2AR_W04, S2AR_W08	Cl (Cl.l, C1.2, C1.3) C2	Lecl - Lec8	N1
PEK_W02	K2AiU_W01, K2AiU_W04, K2AiU_W09, S2AR_W04	Cl (Cl.l) C2	Lec 8	N1
PEK_W03	K2AiU_W01, K2AiU_W03, K2AiU_W04, S2AR_W04	Cl (C1.2) C2	Lec2, Lec3, Lec4, Lec5, Lec6, Lec7	N1
PEK_W04	K2AiU_W01, K2AiU_W02, K2AiU_W03, K2AiU_W04, K2AiU_W08,S2AR_W02, S2AR_W04, S2AR_W05, S2AR_W08	Cl (C1.3) C2	Lec2, Lec4, Lec5, Lec7	N1
PEK_U01	K2AiU_U03, K2AiU_U09, K2AiU_U10, S2AR_U03, S2AR_U07	Cl (Cl.l, Cl.2, C1.3), C2	Lecl - Lec8, Pr2 - Pr 14	NI, N2
PEK_U02	K2AiU_U04,K2AiU_U05, K2AiU_U11, S2AR_U04, S2AR_ U07	Cl (Cl.l, C1.2, C1.3), C2	Lec2, Lec3, Lec4, Lec5, Lec6, Lec7, Lec8 Pr2 - Prl4	NI, N2
PEK_U03	K2AiU_U01, K2AiU_U02, K2AiU_U05 S2AR_U03, S2AR_U04	Cl (Cl.l, C1.2, Cl.3), C2	Pr2 - Prl4	NI, N5
PEK_K03	K2AiU_K03, K2AiU_K04, K2AiU_K05 S2AR_KO1, S2AR_KO2	Cl (Cl.l, Cl.2, Cl.3), C2	Lec3, Lec4, Lec5, Lec6 Pr2 - Prl4	NI, N5

** - enter symbols for learning outcomes related to the academic concentration/specialization
*** - from the table above

FACULTY OF ARCHITECTURE

COURSE SYLLABUS

Course title in Polish **Urbanology**
Course title in English: **URBANOLOGY**
Academic major: **ARCHITECTURE AND URBAN PLANNING**
Specialization: **Architecture**
Course level and study mode: **Second cycle, full-time / part-time**
Course type: **elective**
Course code: **AUA 000164W**
Group of courses: **NO**

	Lecture	Tutorial	Lab	Project	Seminar
Number of contact hours	30				
Number of student workload hours	60				
Grading policy	**pass with grade**				
Mark (X) for final course in a group of courses					
ECTS points:	2				
including ECTS points for practical hours (P)					
Including ECTS points for contact hours (CH)	2				

PREREQUISITES RELATING TO KNOWLEDGE, SKILLS AND OTHER COMPETENCIES

1. KNOWLEDGE

Elementary knowledge of psychology and sociology.
Demonstrate basic knowledge needed to understand the social and psychological circumstances of engineering work.
Knowledge of engineering ethics. Demonstrate basic knowledge needed to understand the ethical and social circumstances of engineering work.
Knowledge of basic systems of integration and organization of urbanized community;
Knowledge of the structure of territory and urbanized spaces;

2. SKILLS:

Ability to analyze, interpret and evaluate social and spatial phenomena;
Ability to retrieve information from databases, interpret the obtained data, draw conclusions and formulate and justify opinions.

3. OTHER COMPETENCIES: Take into consideration the non-technical aspects of design, in particular the impact of the environment on choices and behavior of man and social groups.

COURSE OBJECTIVES

C1 - To understand and develop skills in analyzing social phenomena and to evaluate such phenomena in relation to the territory and space;
C2- To develop the ability to formulate their own opinions on aforementioned topics and to build research hypotheses, in particular in the area of the urbanized territory as well as the ability to build models of social processes taking place in such territory.
C3 – To develop the ability to develop the human environment with consideration of relationships between people and buildings and between urban structures and their surroundings.

COURSE LEARNING OUTCOMES

Related to knowledge:

K2AiU_W06

Demonstrate knowledge of contemporary ideas of shaping space in cities and of the transformations in the spatial structure that occur within them. Demonstrate detailed knowledge of the methods for shaping the functional and spatial structures of Polish and European cities, the causes of errors in them and the trends in transformations.

Related to skills:

K2AiU_U01

Communicate using different technologies in their professional environment and in other environments.

Identify further educational paths and carry out the process of self-learning.

K2AIU_U03

Integrate knowledge of theory of architecture and urban planning to build and develop design layouts in architecture, urban planning and historic preservation.

K2AiU_U07

Analyze the urban structure of the city and define the scope of modernization processes that are required, and create a contemporary urban record of such transformations.

PE_U01: Integrate and apply technical and non-technical knowledge in solving design problems at an urban and architectural scale.

Related to social competencies:

K2AiU_K01

Understand the need for self-learning, identify their strengths and limitations and define the direction of their future career.

K2AIU_K03

PE_K01: Demonstrate awareness and understanding of the importance of non-technical aspects and consequences of designing urban space, in particular the mutual influence of man and the environment and the associated responsibility for decisions.

K2AIU, KO4

Create an awareness of the social role of the graduate of a technical university. Represent the ethos of the engineering profession. Understand the need to formulate information and opinions and inform the society about the achievements of technology and aspects of an engineer's professional work. Identify and effectively apply the methods of dialog with the society.

K2AIU_K05

Understand the social responsibility of the architectural profession.

PE_K02: Understand the importance of the course and its impact on the quality of contemporary life of the society.

CURRICULUM CONTENT		
Mode of teaching - lectures		**Number of hours**
Lec1	Overview of lecture topics. Methods of analysis of urban state. Complexity of urbanization. Urbanization objectives vs methods.	4
Lec2	Atomization vs social integration. Urban thresholds. The wave-like and phase-like character of life.	4
Lec3	From chaos to order. Emergent dialectics.	2

Lec4	Territory Archetype of territorial division Development of the complexity of the territory	4
Lec5	Vision. Psychophysiological determinants of perception. Energetics of view. Sensory background.	4
Lec6	Division of labor. Work vs. territory. Urban sloth . Original and anonymous work.	2
Lec7	Culture. Urban matrix.	2
Lec8	Defenseless man.	2
Lec9	Urbanization as a religious construct.	4
W10	Society as a system	2
	Total hours	**30**
	Total hours	

TEACHING TOOLS
EXAMPLE: N1. for lectures: Expository lecture, multimedia presentation, problem-solving lecture, etc. N2. for tutorial: calculation exercises, problem-solving exercises, etc. N3. for laboratory: preparation of a report, etc. N4. for seminar: multimedia presentation, problem-oriented discussion, case study, etc. N5. for project: project presentation, consultations, etc. …

ASSESSMENT OF ACHIEVEMENT OF LEARNING OUTCOMES

Assessment (F – formative (during the semester), S – summative (at the end of semester)	Number of learning outcome	Method of assessing the achievement of learning outcome
F1	PE_W01, PE_W02, PE_W03, PE_W04, PE_K01	Oral examination - $\alpha_{1=}1$
F2	PE_U01, PE_U02, PE_K01	Grade for the content of the project.- $\alpha_{1=}0,6$
F3	PE_U03	Assessment for the presentation of problems covered by the project.- $\alpha_{2=}0,2$
F4	PE_U03	Assessment for the graphics of the project $\alpha_{3=}0,2$
P 1= α_1 F1 where α_1=1, Σ α = 1 P 2= α_1 F2 + α_2F3 + α_3F4, where α_1=0,6, α_2=02, α_3=02, Σ α = 1		

P1 - Final grade for oral examination

P2 - Final grade for project (weighted average: for projects – 60% , for presentations - 20% and graphical appeal 20%).

BASIC AND ADDITIONAL LITERATURE

BASIC LITERATURE:

Julian Tuwim - wierszyk: Wszyscy dla wszystkich
Sofokles - Antygona
Stary Testament - Genesis; V Mojżeszowa od X r.
Nowy Testament - Mateusz .V. ; listy św. Pawła,
John Dewey - Sztuka jako doświadczenie, 1973
Rene Dubos - Tyle człowieka co zwierzęcia, 1973
Zygmunt Bauman - Globalizacja, 1998
Stefan Czarnowski - Dzieła wszystkie, t.III; 1956;
Edward Hall - Ukryty wymiar
R.L.Gregory - Oko i mózg. Psychologia widzenia, 1971
Rita Carter - Tajemniczy świat umysłu, 1999
P. Meyer - Złudzenie konieczne,
Konrad Lorenz - Regres człowieczeństwa, 1986
Konrad Lorenz - Odwrotna strona zwierciadła, 1977
Norbert Elias - Przemiany obyczajów w cywilizacji Zachodu, 1980
Alvin Toffler - Trzecia fala, 1997
Władysław Stróżewski - Dialektyka twórczości, 1983
Alvin Toffler - Szok przyszłości, 1975
Francis Fukuyama - Koniec Historii, 1997
Samuel Huntington - Zderzenie cywilizacji i nowy kształt ładu światowego - 2001
Leszek Kołakowski - Obecność mitu, 2003
Antropologia religii, praca zbiorowa , UJ 2002
Maria Ossowska - Podstawy nauki o moralności, 1966
DAvid S. Landes - Bogactwo i nędza narodów, 2010
Peter Gardenfords - Jak homo stał się sapiens. O ewolucji myślenia. 2010
Mogens H. Hansen - POLIS. Wprowadzenie do dziejów greckiego miasta-państwa w starożytności, 2011

ADDITIONAL LITERATURE:

Zdzisław Krasnodębski -Demokracja peryferii, 2003
Barbara Olszewska-Dyoniziak - Człowiek i religia, 2002
Michael Tomasello - Kulturowe źródła ludzkiego poznawania
Erich Fromm - Serce człowieka, 1996

COURSE INSTRUCTOR (NAME, SURNAME, E-MAIL)

Stanisław Lose PhD, stanislaw.lose@pwr.wroc.pl;

EQUIVALENCY MATRIX OF LEARNING OUTCOMES FOR COURSE **URBANOLOGY**
WITH THE LEARNING OUTCOMES FOR ARCHITECTURE AND URBAN PLANNING MAJOR

Course learning outcome	**Relation of course outcome with learning outcomes formulated for the major**	**Course objectives**	**Curriculum content**	**Number of teaching tool (from table above)**
PE_W01	**K1AIU_W01, K1AIU_W07, K1AIU_W09, K1AIU_W16, K1AIU_W21,**	C1, C2,C3, C4, C5	Lec1-Lec8	N1
PE_W02	**K1AIU_W01, K1AIU_W21 K1AIU_W15,**	C1, C2,C3, C4, C5	Lec1, Lec2,Lec4,Lec6, Lec8	N1
PE_W03	**K1AIU_W01, K1AIU_W21, K1AIU_W23, K1AIU_W26,**	C1, C2,C3, C4, C5	Lec3, Lec5,	N1
PE_W04	**K1AIU_W01, K1AIU_W21, K1AIU_K02,**	C1, C2,C3, C4, C5	Lec1, Lec2, Lec6,Lec7, Lec8,	N1
PE_U01	**K1AIU_U08, K1AIU_U17, K1AIU_U19,**	C1, C2,C3, C4, C5,C6	Pr2 – Pr14, Lec2,Lec7,Lec8	N1,N5
PE_U02	**K1AIU_U08, K1AIU_U18, K1AIU_U19,**	C1, C2,C3, C4, C5,C6	Pr2 – Pr14, Lec3, Lec4, Lec5, Lec6, Lec7,	N1,N5
PE_U03	**K1AIU_U16, K1AIU_U19 K1AIU_U21,**	C1, C2,C3, C4, C5,C6	Pr2 – Pr14,	N1,N5
PE_K01	**K1AIU_K02**	C1, C2,C3, C4, C5,C6	Pr2 – Pr14, Lec1,Lec2	N1,N5
PE_K02	**K1AIU_K06 K1AIU_K08**	C1, C2,C3, C4, C5,C6	Pr1 – Pr10, WyWy1,Lec2, Lec7, Lec8	N1,N5

FACULTY OF ARCHITECTURE

COURSE SYLLABUS

Course title in Polish Eco-Technologies Photovoltaics in Architecture
Academic major: Architecture and Urban Planning
Specialization: Architecture
Course level and study mode: Second cycle, full-time / part-time*
Course type: elective
Course code AUA109527W
Group of courses No

	Lecture	Tutorial	Lab	Project	Seminar
Number of contact hours	30				
Number of student workload hours	60				
Grading policy	pass with grade*				
Mark (X) for final course in a group of courses					
ECTS points:	**2**				
including ECTS points for practical hours (P)					
including ECTS points for contact hours (CH)	2				

PREREQUISITES RELATING TO KNOWLEDGE, SKILLS AND OTHER COMPETENCIES

1. OTHER COMPETENCIES: Students can take into consideration non-technical aspects of design, in particular the impact on the environment.

COURSE OBJECTIVES

C1. To introduce students to the basic concepts of photovoltaics technology, its evolution and development prospect in the context of architecture.
C2. To acquaint students with problems pertaining to the direct integration of photovoltaics systems with the building envelope (BiPV). To demonstrate the relationships between advanced solar technology and architecture in terms of technology, ecology and aesthetics.
C3. To demonstrate methods and possibilities of applying photovoltaics in buildings and to review selected solutions and implementations.

COURSE LEARNING OUTCOMES

KNOWLEDGE
PEK_W01. Demonstrate elementary knowledge of photovoltaics technology – describe the structure, principle of operation and types of systems. Understand the need to use

technology and describe the methods and possibilities of its application in architecture.

PEK_W02. Demonstrate elementary knowledge of direct integration of photovoltaics with the building envelope. Understand the dependencies and relations between architecture and solar technology.

PEK_W03. Demonstrate rudimentary knowledge of modern photovoltaics technologies and materials for building applications and their application in contemporary architecture.

SKILLS:

SOCIAL COMPETENCIES

PEK_K01. Demonstrate an awareness and understanding of the consequences of the engineer's work related to architectural design, and its impact on the environment and the related responsibility.

CURRICULUM CONTENT		
Mode of teaching - lectures		**Numb hours**
Lec 1	Overview of the scope of the subject, course completion requirements, literature. **Introduction:** problems of energy, the search for alternatives; evolution of solar technology, current trends.	2
Lec2-Lec3	**Basics of photovoltaics:** the photovoltaics system – structure and principle of operation; solar enegry; technologies for buildings.	4
Lec 4	**Photovoltaics added to buildings**: types of systems, examples of implementation.	2
Lec5-Lec6	**Building-integrated photovoltaics (BiPV):** definition of the concept; methods and aspects of architectural integration; examples of implementation.	4
Lec7	**Innovative building materials:** photovoltaic cladding, implementation examples.	2
Lec 8	**Innovative building materials:** photovoltaic glass, implementation examples.	2
Lec 9	**Innovative building materials:** metallic materials, implementation examples.	2
Lec10	**Innovative building materials:** photovoltaic shingles, plastics; implementation examples.	2
Lec11-Lec12	**Ecological aspects of integrating photovoltaics systems:** life cycle of the system; efficient energy use and comfort – BiPV enevelope as an energetically active system; implementation examples.	4

Lec 13	**Esthetics of the BiPV shell:** architectural integration; elements that influence esthetics; examples of implementation.	2
Lec 14	**Marketing effect of BiPV:** image, advertising; examples of implementation.	2
Lec 15	**Final test**	2
	Total hours	**30**

TEACHING TOOLS
N1. Expository lecture with elements of interactive lecture. **N2.** multimedia presentation,

ASSESSMENT OF ACHIEVEMENT OF LEARNING OUTCOMES		
Grades F – formative (during the semester), P – summative (at the end of semester)	Number of learning outcome	Method of assessing the achievement of learning outcome
F1	**PEK_W01, PEK_W02, PEK_W03, PEK_K01**	**Written test – α_1=1**
P1= α_1F1 where α_1=1		

BASIC AND ADDITIONAL LITERATURE

BASIC LITERATURE:

[1] www.epia.org/
[2] www.iea-pvps.org/
[3] www.pvdatabase.org
[4] KLUGMANN-RADZIEMSKA E., *Fotowoltaika w teorii i praktyce,* Wydawnictwo BTC, Legionowo 2010

ADDITIONAL LITERATURE:

[1] CELADYN W., *Przegrody przeszklone w architekturze energooszczędnej*, Politechnika Krakowska, Kraków 2004.
[2] HAGEMANN I.B., *Gebäudeintegrierte Photovoltaik. Architektonische Integration der Photovoltaik in die Gebäudehülle*, Müller, Köln 2002.
[3] PRASAD D., SNOW M. (eds.), *Designing with solar power. A Source Book for Building Integrated Photovoltaics (BIPV),* Images Publishing, Mulgrave, Earthscan, London, Sterling 2005.

COURSE ADVISOR

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EQUIVALENCY MATRIX OF LEARNING OUTCOMES FOR COURSE
ECO-TECHNOLOGIES PHOTOVOLTAICS IN ARCHITECTURE
WITH THE LEARNING OUTCOMES FOR ARCHITECTURE AND URBAN PLANNING MAJOR
AND CONCENTRATION IN **ARCHITECTURE**

Course learning outcome	Relation of course outcome with learning outcomes formulated for the major and concentration	Course objectives	Curriculum content	No. teaching tool
PEK_W01	S2AR_W05 S2AR_W08	C1, C2, C3	L1-L14	N1, N2
PEK_W02	S2AR_W05 S2AR_W08	C1, C2, C3	L5-L14	N1, N2
PEK_W03	S2AR_W08	C1, C2, C3	L7-L14	N1, N2
PEK_K01	S2AR_K02	C1, C2, C3	L1, L4-6, L11-14	N1, N2

FACULTY OF ARCHITECTURE

COURSE SYLLABUS
HABITAT IN DIFFERENT CULTURES.

Course title in English Habitat in Different Cultures
Academic major: ARCHITECTURE AND URBAN PLANNING
Specialization: Architecture
Study cycle and study mode: Second cycle, full-time / part-time
Course type: elective
Course code: AUA 000140W
Group of courses No

	Lecture	Tutorial	Lab	Project	Seminar
Number of contact hours	30	-	-	-	-
Number of student workload hours	60	-	-	-	-
Grading policy	**pass with grade**	-	-	-	-
Mark (X) for final course in a group of courses					
ECTS points:	2				
including ECTS points for practical hours (P)					
including ECTS points for contact hours (CH)	2				

PREREQUISITES RELATING TO KNOWLEDGE, SKILLS AND OTHER COMPETENCIES

1. KNOWLEDGE
Knowledge of problems related to residential architecture and history of civilization
2. SKILLS:
Ability to present architectural ideas in the form of freehand drawings.
3. OTHER COMPETENCIES:
Openness, creativity, active involvement in learning about architecture, art and science

COURSE OBJECTIVES

C1- To present basic ethical (anthropocentrism vs ecocentrism) and aesthetic (regionalism vs universalism) problems related to development of residential architecture in different cultures.
C2- To present contemporary trends in the development of the urbanized environment and spatial challenges in the era of globalization, including: the need to protect the cultural heritage of a place.
C3- To introduce students to the diversity of archetypes of habitat and home in different cultures.
C4- To acquaint students with contemporary philosophical and social, civilizational and technological and urban and spatial circumstances of residential architecture in the world (structural-functional perspective).
C5- To present architectural standards of house and their contemporary interpretation in different cultures.

COURSE LEARNING OUTCOMES

Related to knowledge:
PE_W01 Demonstrate detailed knowledge of cultural circumstances in relation to the development of space surrounding human life, including knowledge needed to understand the phenomenon of habitat and home, location and space.
PE_W02 Demonstrate theoretically grounded knowledge of cultural heritage of a place and its influence on residential architecture

PE_W03 - Identify archetypes and spatial models of habitat and home in different cultures.

PE_W04 Describe basic problems and challenges related to the development of civilization, and their influence on the concept of residential environment.

PE_W05 Identify and creatively interpret the regional spatial model of residential architecture.

Related to skills:

PE_U01 Demonstrate skills in self-teaching and develop critical thinking

PE_U02 Demonstrate the ability to retrieve information from literature of the subject, databases and other sources, draw conclusions and formulate and justify opinions, and interpret such information in the form of freehand drawings

PE_U03 Analyze the current condition of residential architecture in the world, validate information, understand civilizational trends and identify problems to by an architect

Related to social competencies:

PE_K01 Demonstrate the awareness of the responsibility of an architect for maintaining the spatial order, protecting the natural environment and the cultural heritage of a place.

PE_K02 Demonstrate awareness of the social dimension of architecture and respect the diversity of needs, beliefs, opinions and aesthetic preferences of users of architecture.

PE_K03 Demonstrate openness, creativity, and active involvement in learning about architecture, art and science, and in continuous development of architectural skills

CURRICULUM CONTENT		
Mode of teaching - lectures		**Number of hours**
Lec1	Meta-habitat - Cultures and culture models	2
Lec2	Influence of environmental and cultural factors on the development of habitat - Habitat from dystopia to utopia	2
Lec3	Habitat in the Black African culture	2
Lec4	Habitat in the Arab-Muslim culture	2
Lec5	Habitat in the Indian culture	2
Lec6	Habitat in the oriental culture	2
Lec7	Habitat in the Malayan culture	2
Lec8	Habitat in European culture: the Mediterranean region	2
Lec9	Habitat in European culture: the Scandinavian region	2
Lec10	Habitat in European culture: the central region	2
Lec11	Habitat in the Latin American culture	2
Lec12	Habitat in the Australian culture	2
Lec13	Habitat in the Anglo-American culture	2
Lec14	Ecocentrism and anthropocentrism in creating habitats - Regionalism and universalism in residential architecture.	2
Lec15	International contests and exhibitions of residential architecture.	2
	Total hours	**30**
TEACHING TOOLS		
N1. for lectures: **multimedia presentation**, **problem-solving lecture**		

ASSESSMENT OF ACHIEVEMENT OF LEARNING OUTCOMES

Assessment (F – formative (during the semester), S –	Number of learning outcome	Method of assessing the achievement of learning outcome

summative (at the end of semester)		
F1	PE_W01, PE_W02, PE_W03, PE_U02, PE_U03, PE_K01, PE_K02	Assessment of the content quality- α_1=0,6
F2	PE_W04, PE_W05, PE_U01, PE_U03, PE_K03	Assessment of the original approach to the subject- α_1=0,3
F3	PE_U02	Assessment of the graphical appeal α_3=0,1
$P = \alpha_1 F1 + \alpha_2 F2 + \alpha_3 F3$,	where α_1=0,6 α_2=0,3 α_3=0,1 $\Sigma \alpha = 1$	

P - final assessment of the course in the form of: poster (graphical essay) - author's presentation on a selected topic regarding the issue of habitat in different cultures (weighted average of: content quality - 60%, originality - 30% and graphical appeal 10 %).

BASIC AND ADDITIONAL LITERATURE

BASIC LITERATURE:

[249] *Architecture for a Changing World*, London, New York: Academy Editions, 1992.
[250] Conde, Luiz Paulo, Magalhães, Sérgio, *Favela–Bairro: uma outra história da cidade do Rio de Janeiro – Favela-Bairro: rewriting the history of Rio*, Rio de Janeiro: ViverCidades, 2004
[251] Cotterell, Arthur, *Słownik mitów świata* (*A Dictionary of World Mythology*), Warszawa: Wydawnictwo Książnica, 1996.
[252] Dethier, Jean, *Architectures de terre*, Paris: Editions du Centre Pompidou, 1986.
[253] Doxiadis, Constantinos A., *Building Entopia*, Athens: Athens Publishing Center, 1975.
[254] Hall, Edward T., *Ukryty wymiar* (*The Hidden Dimension*), Warszawa: Wydawnictwo Literackie Muza S.A., 1997.
[255] Norberg-Schulz, Christian, *Bycie, przestrzeń i architektura*, Warszawa: Wydawnictwo Murator, 2000.
[256] Norberg-Schulz, Christian, *Znaczenie w architekturze Zachodu,* Warszawa: Wydawnictwo Murator, 1999.
[257] Olgyay, Victor, *Design with Climate: Bioclimatic Approach to Architectural Regionalism*, New York: Van Nostrand Reinhold, 1992.
[258] Tuan, Yi-Fu, *Przestrzeń i miejsce* (*Space and Place: The Perspective of Experience*), Warszawa: PIW, 1987.

ADDITIONAL LITERATURE:

[159] Alexander, Christopher, *Język wzorców: Miasta, budynki, konstrukcja (A Pattern Language)*. GWP Gdańskie Wydawnictwo Psychologiczne, Gdańsk, 2008.
[160] Arias, Ernesto G., *The Meaning and the Use of Housing*, Sydney: Avebury, 1993.
[161] Benevolo, Leonard, *Die Geschichte der Stadt*, Frankfurt, New York: Campus Verlag, 1983.
[162] Blaser, Werner, *Courtyard House in China: Tradition and Present*, Basel: Birkhäuser Verlag, 1995.
[163] Fathy, Hassan, *Architecture for the Poor*, Chicago: The University of Chicago Press, 1973.
[164] Kelm, Teresa, *Architektura ziemi: tradycja i współczesność*, Warszawa: Wydawnictwo Murator, 1996.
[165] Manshard, Walther, *Die Städte des tropischen Afrika*, Berlin: Gebrüder Borntraeger, 1977.
[166] Michell, George, *Architecture of the Islamic World*, London: Thames and Hudson, 1995.
[167] Norwood, Ken, Smith, Kathleen, *Rebuilding Community in America: Housing for Ecological Living, Personal Empowerment and the New Extended Family*, Berkeley, California: Shared Living Resource Center, 1995.
[168] Prochazka, Amjad Bohumil, *Architecture of the Islamic Cultural Sphere*, Zurich: Muslim Research, 1986.

COURSE ADVISOR (NAME, SURNAME, E-MAIL)

Ada Kwiatkowska PhD, ada.kwiatkowska@pwr.wroc.pl

EQUIVALENCY MATRIX OF LEARNING OUTCOMES FOR COURSE
HABITAT IN DIFFERENT CULTURES.
WITH THE LEARNING OUTCOMES FOR ARCHITECTURE AND URBAN PLANNING MAJOR

Course learning outcome	Relation of course outcome with learning outcomes formulated for the major	Course objectives	Curriculum content	No. of teaching tool
PEK_W01 (knowledge)	**K2AiU_W01 K2AiU_W02**	C1, C2	Lec1, Lec2	N1
PEK_W02		C1, C2	Lec1, Lec2	N1
PEK_W03		C3	Lec3-Lec13	N1
PEK_W04	**K2AiU_W02**	C4, C5	Lec14, Lec15	N1
PEK_W05	**K2AiU_W02**	C4, C5	Lec14, Lec15	N1
PEK_U01 (skills)	**K2AiU_U01**	C1, C4	Lec1-Lec15	N1
PEK_U02		C5	Lec1-Lec15	N1
PEK_U03	**K2AIU_U04**	C1, C2, C3, C4, C5	Lec1, Lec2, Lec14, Lec15	N1
PEK_K01 (competencies)		C1, C2	Lec1, Lec2, Lec14, Lec15	N1
PEK_K02	*K2AIU_K04*	C1, C2, C4	Lec1-Lec15	N1
PEK_K03	**K2AIU_K02**	C3, C5	Lec1-Lec15	N1

FACULTY OF ARCHITECTURE

COURSE SYLLABUS

REVIEW OF EUROPEAN PAINTING

Course title in English Review of European Painting
Academic major: **Architecture and Urban Planning**
Study cycle and study mode: Second cycle, full-time / part-time
Course type: elective
Course code AUA000312W
Group of courses No

	Lecture	Tutorial	Lab	Project	Seminar
Total number of contact hours	30				
Number of student workload hours	60				
Grading policy	pass with grade				
Mark (X) for final course in a group of courses					
ECTS points:	2				
including ECTS points for practical hours					
Including ECTS points for contact hours (CH)	**2**				

PREREQUISITES RELATING TO KNOWLEDGE, SKILLS AND OTHER COMPETENCIES

1. KNOWLEDGE

General knowledge of concepts and definitions related to aesthetics, styles, history architecture

2. SKILLS:

Ability to analyze works of art and assess aesthetic values. Ability to write a short literary text.

COURSE OBJECTIVES

C1 - Propaedeutics of a selected field of art history - western European painting between the Middle Ages and the 20th century

C2 - To introduce students to selected notions related to problems of history of western European painting, formal and aesthetic differences between western European painting and that of other cultures

C3 - To present problems related to defining art, aesthetic criteria for western European painting.

C4 - To introduce students to general notions of analysis of paintings, presentation of so-called layers of painting meaning: formal, depicting, depicted and symbolic

C5 - To present basic features of figurative and abstract painting,

C6 - To introduce students to basic formal methods applied in paintings (contour, line, solid, chiaroscuro, color, size, shape, scale, composition)

C7 - To present the problems of iconographic and iconological analysis of a painting

C8 - To acquaint students with basic painting techniques

C9 - To equip students with skills in characterizing and defining concepts and problems related to aesthetics and European art

C10 - To increase the aesthetic sensitivity of students

COURSE LEARNING OUTCOMES
Related to knowledge: PEK_W Demonstrate general knowledge of history of western European painting PEK_W02 Demonstrate basic knowledge you need to read the content of allegorical and may attempt symbolic interpretation of the content of a painting PEK_W03 Demonstrate general knowledge of style and author of a painting PEK_W04: Identify selected notions related to problems of history of western European painting, formal and aesthetic differences between western European painting and that of other cultures PEK_W05 Identify problems related to defining art, aesthetic criteria for western European painting. PEK_W06 Demonstrate knowledge of general notions of analysis of paintings, presentation of so-called layers of painting meaning: formal, depicting, depicted and symbolic PEK_W07 Identify basic characteristics of figurative and abstract painting and the basic formal methods applied in paintings (contour, line, solid, chiaroscuro, color, size, shape, scale, composition) PEK_W08 Demonstrate knowledge of iconographic and iconological analysis of a painting **Related to skills:** PEK_U01 Demonstrate the ability to interpret the painting - to recognize and identify the mythological, biblical or literary origin of the work PEK_W02 Demonstrate knowledge needed to read the allegorical content and attempt a symbolic interpretation of the content of a painting PEK_U03 Perceive and evaluate the importance of the painting in the context of other paintings PEK_U04 Identify basic painting techniques PEK_U05 Based on lectures, identify original or stylistic features of work of art PEK_U06 Analyze the composition, color use, chiaroscuro and space of a painting PEK_U07 Properly characterize the context of the creation and function of a painting PEK_U08 Compare contemporary and historical works of art related thematically **Related to social competencies:** PEK_K01 understand the cultural importance of a work of art PEK_K02 understand the material value of a work of art PEK_K03 recognize the importance of aesthetic solutions and their impact on the society

CURRICULUM CONTENT		
Mode of teaching - seminar		**Number hours**
Lec1	Scope of the seminar lecture, course completion requirements, literature. General concepts of the history of painting. Four layers of painting meaning: formal, depicting, depicted and symbolic - figurative vs. abstract painting, - contour, line, solid, chiaroscuro, color, size, shape, scale, composition, illusion vs reality - realism vs symbolism. - context of painting - technology - thematic content and rank of work	2
Lec2	The origins of Western European art. Depictions in the art of antiquity. Icon painting. Verism of portraits.	2

Lec3	The birth of western European painting - from Byzantine icons to Giotto (Pisano, Cimabue, Giotto, Cavalini) From symbolism to realism (Lorenzetti, Simone Martini) The development of rules for the application of perspective, north of the Alps	2
Lec4	Medieval Painting (Limburg brothers) and the painting of "the Autumn of the Middle Ages" - Flemish region, France 14th-15th century (Hans Memling, Roger van der Weyden, Jan van Eyck, Hugo van der Goes, Hieronim Bosch) Altar, miniature painting Oil technique. Hidden symbolism	2
Lec5	Great schools of Italian Quatrocenta - from Venice to Naples (Massaccio, Piero della Francesca, Ghirlandaio, Fra Angelico, Botticelli, Bellini, Mantegna, Uccello, Gozzolli, Piero di Cosimo) The importance of content in the painting. Allegory and symbol in painting	2
Lec6	Painting of the late Renaissance: Leonardo da Vinci, Michelangelo, Raphael and students. Realism in painting	2
Lec7	Painting of the "Northern Renaissance" (Hans Baldung Grien, Albrecht Duerer, The Cranachs, Hans Holbein, The Brueghels. Mannerism in France. Portrait of the court	2
Lec8	Rome and Venice - two centers of Italian Mannerism (Giorgione, Titian, Tintoretto, Arcimboldo, Pontormo, Brozino, Parmigiano, Veronese, Correggio) Mannerism in northern countries. School of Fontainebleau by Jean Clouet-George Gower.	2
Lec9	Two trends of Italian Baroque - academicism and Caravaggionism Carracci brothers, Reni, da Cortona, Pozzo, Caravaggio, Gentileschi, de la Tour, Light effects in painting, theory and practice, Tenebrism.	2
Lec10	Rubens and Rembrandt. Vermeer. Little Dutch masters. Genre painting. Landscape and still life.	2
Lec11	Spanish Painting from Mannerism to Goya.	2
Lec12	French paintings from the Baroque to Classicism. French tenebrist artists. Rococo art	2
Lec13	English painting from the Middle Ages to the 19th century. Anton van Dyck, William Hogarth, Thomas Gainsborough, William Blake, Reynolds, Turner, Constable, prerafaelici. Landscape. Symbolism. Trends in 19th century European painting - Romanticism and realism. Karl Frieich Schinkel Johan Fuessli Gericault Eugene Delacroix, Courbet PhD academicism, impressionism, expressionism	2
Lec14	Polish and Lower Silesian art in the context of and western painting. Field trip to the National Museum. Case studies of selected works.	2
Lec15	Painting of non-European countries before the 19th century-a comparison of methods of composition, color, methods of shaping the perspective with European painting.	2
	Total hours	**30**

TEACHING TOOLS
N1. expository lecture, N2. multimedia presentation, N3. problem-solving lecture N4. problem-solving discussion N5. case study N6. consultation

ASSESSMENT OF ACHIEVEMENT OF LEARNING OUTCOMES

Assessment (F – formative (during the semester), S – summative (at the end of semester)	Number of learning outcome	Method of assessing the achievement of learning outcome
P	PE_W01- 08 PE_U01-08 PE_K01-03	Assessment based on written studies on the selected work of art

BASIC AND ADDITIONAL LITERATURE

BASIC LITERATURE:

[99] Arenas Jose Fernandez, *Klucze do sztuki renesansu*, Wyd. Dolnośląskie 1993
[100] Arenas, *Klucze do sztuki renesansu*, Wyd. Dolnośląskie 1993
[101] Bracons Jose, *Klucze do sztuki gotyku*, Wyd. Dolnośląskie 1993
[102] Geller Katalin, *Malarstwo francuskie w XIX wieku*, Wyd. Art. i Film. Warszawa 1990
[103] Levey Michael, *Od Giotta do Cezanne'a*, Warszawa 1972
[104] *Malarstwo włoskie - Mistrzowie i arcydzieła,* Arkady Warszawa 1998
[105] Reyero C., *Klucze do sztuki od romantyzmu do impresjonizmu*, Wyd. Dolnośląskie 1993
[106] Rzepińska M., *Historia koloru,* Warszawa 1985
[107] Rzepińska M., *Siedem wieków malarstwa europejskiego*, Warszawa 1979,
[108] Rzepińska, *Malarstwo Cinquecenta,* Warszawa 1976
[109] Secomska K., *Mistrzowie i książęta. Malarstwo francuskie XV i XVI w.*, Warszawa 1989
[110] Secowska K., *Malarstwo francuskie XVIII w*., Warszawa 1985,
[111] Skubiszewska M., *Malarstwo Italii w latach 1250-1400*, Warszawa 1981
[112] *Symbole i symbolika*, wybór i wstęp M. Głowiński, Warszawa 1990
[113] Ważbiński Z., *Malarstwo Quatrocenta*, Warszawa 1989

ADDITIONAL LITERATURE:

[114] Baujean Dieter, *Diego Velazquez -Life and work*, Koenemann Koeln 2000
[115] Buchholz Elke Linda, *Leonardo da Vinci-Life and work*, Koenemann Koeln 2000
[116] Genaille R., *Sztuka flamandzka i belgijska*, Warszawa 1976
[117] Gilles Lambert, *Caravaggio,* Taschen Warszawa 2005
[118] Groemling Alexandra, *Michelangelo Buonarotti- Life and work*, Koenemann Koeln 1999
[119] Kriegeskorte Werner, *Arcimboldo*, Taschen Koeln 2000
[120] Nochlin L., *Realizm*, Warszawa 1974.
[121] Seria: *Geniusze malarstwa,* wyd. Arkady, Warszawa 1998-2005

[122] Serie: *Masters of the Italian art*, *Masters of the German art*, wyd. Koenemann Koeln 1998-2001:
[123] Zwolińska K., Malicki Z., *Mały słownik terminów plastycznych*, Warszawa 1975

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EQUIVALENCY MATRIX OF LEARNING OUTCOMES FOR COURSE

A FEW EXAMPLES OF EUROPEAN PAINTING

WITH THE LEARNING OUTCOMES FOR ARCHITECTURE AND URBAN PLANNING MAJOR

Learning outcome	**Relation of given outcome with learning outcomes formulated for the major**	**Course objectives**	**Curriculum content**	**Number of teaching tool**	**Assessment method**
PEK_W01	**K2AiU_W01 K2AiU_W02 K2AiU_W03 K2AiU_U06 K2AiU_K01 K2AiU_K03**	C1, C10	Se1-Se15	N1-6	P1
PEK_W02	**K2AiU_W01 K2AiU_W02 K2AiU_W03 K2AiU_U06 K2AiU_K01 K2AiU_K03**	C1, C10	Se1-Se15	N1-6	P1
PEK_W03	**K2AiU_W01 K2AiU_W02 K2AiU_W03 K2AiU_U06 K2AiU_K01 K2AiU_K03**	C1, C2, C3, C7,C9,C10	Se1-Se15	N1-6	P1
PEK_W04	**K2AiU_W01 K2AiU_W02 K2AiU_W03 K2AiU_U06 K2AiU_K01 K2AiU_K03**	C1, C2, C3, C6,C8,C9, C10	Se1-Se15	N1-6	P1
PEK_W05	**K2AiU_W01 K2AiU_W02 K2AiU_W03 K2AiU_U06 K2AiU_K01 K2AiU_K03**	C1-C10	Se1- Se15	N1-6	P1
PEK_W06	**K2AiU_W01 K2AiU_W02 K2AiU_W03 K2AiU_U06 K2AiU_K01 K2AiU_K03**	C1, C4,C5,C7, C9,C10	Se1-Se15	N1-6	P1
PEK_W07	**K2AiU_W01 K2AiU_W02 K2AiU_W03 K2AiU_U06 K2AiU_K01 K2AiU_K03**	C1, C2, C3, C6,C7,C8,C9,C 10	Se1-Se15	N1-6	P1
PEK_W08	**K2AiU_W01 K2AiU_W02 K2AiU_W03 K2AiU_U06 K2AiU_K01 K2AiU_K03**	C1,C7,C10	Se1-Se15	N1-6	P1

PEK_U01	**K2AiU_W01 K2AiU_W02 K2AiU_U01 K2AiU_U03 K2AiU_U06 K2AiU_K03 K2AiU_K04**	C1-C10	Se1-Se15	N1-6	P1
PEK_U02	**K2AiU_W01 K2AiU_W02 K2AiU_U01 K2AiU_U03 K2AiU_U06 K2AiU_K03 K2AiU_K04**	C1,C2, C3,C4,C5, C7, C10	Se1-Se15	N1-6	P1
PEK_U03	**K2AiU_W01 K2AiU_W02 K2AiU_U01 K2AiU_U03 K2AiU_U06 K2AiU_K03 K2AiU_K04**	C1,C2,C10	Se1-Se15	N1-6	P1
PEK_U04	**K2AiU_W01 K2AiU_W02 K2AiU_U01 K2AiU_U03 K2AiU_U06 K2AiU_K03 K2AiU_K04**	C1,C6,C8,C10	Se1-Se15	N1-6	P1
PEK_U05	**K2AiU_W01 K2AiU_W02 K2AiU_U01 K2AiU_U03 K2AiU_U06 K2AiU_K03 K2AiU_K04**	C1,C2,C3,C4, C5,C6,C10	Se1-Se15	N1-6	P1
PEK_U06	**K2AiU_W01 K2AiU_W02 K2AiU_U01 K2AiU_U03 K2AiU_U06 K2AiU_K03 K2AiU_K04**	C1,C2, C3,C3,C10	Se1-Se15	N1-6	P1
PEK_U07	**K2AiU_W01 K2AiU_W02 K2AiU_U01 K2AiU_U03 K2AiU_U06 K2AiU_K03 K2AiU_K04**	C6,C10	Se1-Se15	N1-6	P1
PEK_U08	**K2AiU_W01 K2AiU_W02 K2AiU_U01 K2AiU_U03 K2AiU_U06 K2AiU_K03 K2AiU_K04**	C1,C7,C10	Se1-Se15	N1-6	P1
PEK_K01	**K2AiU_W01 K2AiU_K01**	C1,C10	Se1 – Se15	N1-6	P1
PEK_K02	**K2AiU_W01 K2AiU_K01**	C1,C2,C3,C10	Se1- Se15	N1-6	P1
PEK_K03	**K2AiU_W01 K2AiU_W02 K2AiU_W04 K2AiU_K05**	C1, C2,C3,C10	Se1- Se15	N1-6	P1

OTHER USEFUL INFORMATION ABOUT THE COURSE
During the course one problem-oriented lecture takes place at the National Museum, with a discussion of selected works of painting in situ. For many students this is often the first contact not only with the collection of Lower Silesian paintings, but even European.

Zał. nr 4 do ZW 33/2012

FACULTY OF ARCHITECTURE

COURSE SYLLABUS

PRZEZROCZYSTOŚĆ W ARCHITEKTURZE WSPÓŁCZESNEJ

Course title in English *TRANSPARENCY IN CONTEMPORARY ARCHITECTURE*
Academic major: ARCHITECTURE AND URBAN PLANNING
Specialization: Architecture
Study cycle and study mode: Second cycle, full-time / part-time
Course type: elective
Course code AUA 000356W
Group of courses No

	Lecture	Tutorial	Lab	Project	Seminar
Number of contact hours	30				
Number of student workload hours	60				
Grading policy	**pass with grade**				
Mark (X) for final course in a group of courses					
ECTS points:	**2**				
including ECTS points for practical hours (P)					
including ECTS points for contact hours (CH)	2				

PREREQUISITES RELATING TO KNOWLEDGE, SKILLS AND OTHER COMPETENCIES

1. KNOWLEDGE

Knowledge of technical problems related to designing and construction of architectural structures Knowledge of the basics of constructing facades of buildings. Knowledge of factors influencing the method of forming buildings: climate, functions, user preferences. Elementary knowledge of geometric optics (middle-school level).

2. SKILLS:

Ability to analyze and evaluate mutual relations between the structure and its surroundings. Ability to critically analyze a work of architecture.

COURSE LEARNING OUTCOMES

Related to knowledge:

PEK_W01: Demonstrate systematic and theoretically grounded general knowledge of designing and using transparent materials. Demonstrate rudimentary knowledge of technical problems related to the consequences of using transparent materials in façades of architectural structures.

PEK_W02: Understand the relationships and dependencies between the applied transparent material and the achieved formal effects in the building.

PEK_W03: Distinguish and name optical phenomena in transparent partitions. Provide guidance for their creative use in architecture.

Related to skills:

PEK_U01: Apply obtained knowledge of technology and perception psychology in solving a design problem for transparent partitions in the building.

Related to social competencies:

PEK_K01: Understand the non-technical aspects of developing architectural facades. Demonstrate awareness of the relationship between the material and the final formal effect.

PEK_K02: Demonstrate awareness of the importance of issues related to designing transparent partitions for user safety

CURRICULUM CONTENT		
Mode of teaching - lectures		**Number of hours**
Lec1	Clear, translucent or transparent? Systematization of concepts. Why material transmits light - the mechanism of diffusion of light through materials.	2
Lec2	Psychological and physiological basis for the perception of transparency. Optical illusions	2
Lec3	Appearance of a pane - the rules that govern the reflection and penetration of light through panes.	2
Lec4 Lec5	The ratio of reflection and transmission coefficients vs. the impression of transparency: Reduction of light transmission, reduction of light reflection.	4
Lec6	Absorption of radiation vs. the illusion of transparency. The scattering of light on the surface, scattering of light in material mass.	2
Lec7 Lec8	Penetration of light through materials in various physical states: solids. Glass and plastics used in architecture.	4
Lec9	Penetration of light through materials in various physical states: liquids, gasses, liquid crystals: adjustment of transparency	2
Lec10 Lec11	Optical phenomena in solids: shape and dimensions vs. light penetration; blocks, ornamental glass, panes, *stacked glazing*.	4
Lec12	Typology of light-transmitting material systems. Adjacent system: meshes, perforations, moiré phenomenon	2
Lec13	Typology of light-transmitting material systems. The layer system: shallow space, optics of thin layers	2
Lec14	Theorists of architecture on transparency.	2
Lec15	Final test	2
	Total hours	**30**
TEACHING TOOLS		
N1. multimedia presentation,		

ASSESSMENT OF ACHIEVEMENT OF LEARNING OUTCOMES

Assessment (F – formative (during the semester), S – summative (at the end of semester)	Number of learning outcome	Method of assessing the achievement of learning outcome
P	PE_W01, PE_W02, PE_W03, PE_U01, PE_K01, PE_K02	Final test

BASIC AND ADDITIONAL LITERATURE

BASIC LITERATURE:

[169] Andrea Campagno, Intelligent Glass Facades, Birkhäuser, Basel, 1995.
[170] Ulrich Knaack, Façades: Principles of Construction, Birkhäuser Basel, 2007.
[171] Markiewicz Przemysław, Przeszklone ściany osłonowe, Wyd. ARCHI-PLUS, Kraków 2008.

ADDITIONAL LITERATURE:

[172] Dieter Balkow, Glass construction manual, Birkhäuser, 1999
[173] Jan Wurm, Glass structures: design and construction of self-supporting skins, Springer, 2007
[174] Simone Jeska, Transparent plastics: design and technology, Springer, 2007
[175] Michael Wigginton, Jude Harris, Intelligent skins, Architectural Press, 2002
[176] Blaine Erickson Brownell, Transmaterial 2: a catalog of materials that redefine our physical environment, Princeton Architectural Press, 2008

COURSE ADVISOR (NAME, SURNAME, E-MAIL)

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EQUIVALENCY MATRIX OF LEARNING OUTCOMES FOR COURSE
PRZEZROCZYSTOŚĆ W ARCHITEKTURZE WSPÓŁCZESNEJ
WITH THE LEARNING OUTCOMES FOR ARCHITECTURE AND URBAN PLANNING MAJOR

Course learning outcome	Relation of course outcome with learning outcomes formulated for the major	Course objectives	Curriculum content	No. of teaching tool
PEK_W01	**K2AiU_W02**	C1, C3	Lec1, Lec7, Lec8, Lec14	N1
PEK_W02	**K2AIU_K03**	C1, C3	Lec4, Lec5, Lec6, Lec9	N1
PEK_W03	**S2AR_W04**	C2	Lec3, Lec10, Lec 11	N1
PEK_U01	**S2AR_W04** **S2AR_W08**	C3	Lec2, Lec3	N1
PEK_K01	**K2AIU_K03**	C1, C4	Lec 2, Lec 3, Lec12,	N1
PEK_K02	**K2AIU_K03**	C1, C4	Lec 2, Lec 3, Lec13	N1

Zał. nr 4 do ZW 33/2012

FACULTY OF ARCHITECTURE

COURSE SYLLABUS

DESIGNING PUBLIC BUILDINGS - CASE STUDY

Academic major: ARCHITECTURE AND URBAN PLANNING
Study cycle and study mode: Second cycle, full-time / part-time
Course type: elective
Course code AUA000204W
Group of courses No

	Lecture	Tutorial	Lab	Project	Seminar
Number of contact hours	30				
Number of student workload hours	60				
Grading policy	**pass with grade**				
Mark (X) for final course in a group of courses					
ECTS points:	**2**				
including ECTS points for practical hours (P)					
including ECTS points for contact hours (CH)	2				

PREREQUISITES RELATING TO KNOWLEDGE, SKILLS AND OTHER COMPETENCIES

1. KNOWLEDGE: Basic understanding of technical problems related to design of architectural structures.
2. SKILLS: Ability to analyze the external circumstances of the existing urban fabric, different functions, the relationships between buildings. Skill in applying different technical methods: freehand drawings at a scale, text analysis, CAD programs,
3. OTHER COMPETENCIES: Taking into consideration the non-technical aspects of design, including the influence of the cultural environment and natural environment.

COURSE OBJECTIVES

C1 – To present the investment process from the idea, through the project, all its phases, to implementation, using the example of completed facilities, including own designs,
C2 – To present other examples of aforementioned buildings and defining current tendencies,

C3- To define the necessary features and requirements for the individual building functions
C4 - To present problems related to the use of structural, material and installation infrastructure,
C5 - To introduce students to development prospects of social buildings in the context of historical and cultural conditions.

COURSE LEARNING OUTCOMES

Related to knowledge:

PEK_W01: Demonstrate systematic and theoretically grounded general knowledge of designing and implementation of social .buildings Demonstrate knowledge related to designing technical issues.

PEK_W02: Describe characteristics of contemporary social architecture.

PEK_W03: Demonstrate general knowledge related to provisions of technical conditions of design in such development.

PEK_W04: Understand non-technical aspects of design, and cultural, historic and social circumstances, as well as the economic aspect.

Related to skills:

PEK_U01: Apply technical knowledge in designing social development at an urban and architectural scale.

PEK_U02: Understand the mutual relations between building and surroundings in terms of cultural, social and technical aspects.

Related to social competencies:

PEK_K01: Demonstrate awareness of the importance of non-technical aspects and consequences of creating solutions for social building, its impact on the existing urban environment.

CURRICULUM CONTENT		
Mode of teaching - lectures		**Number of hours**
Lec1	Multi-functional character of sports and auditorium hall - "Centennial Hall" in Wroclaw, presented on the basis of the analysis of design by architect Max Berg and constructor Ginter Trauer and subsequent reconstructions.	2
Lec2	Analysis of characteristic examples of other spectacular halls, the changeability and the elasticity of the arena, of the auditorium, social-cultural context, technical infrastructure.	2
Lec3	Experimental stage of Wroclaw Contemporary Theatre, the process of development from conception to implementation.	2
Lec4	Other examples of the implementation of space of stage-auditorium in contemporary theatre objects, cultural circumstances, technical-material solutions.	2
Lec5	Educational trip to the selected auditorium object in order to familiarize students with the stage technique and organization of variable auditorium.	2
Lec6	The project for rebuilding and expansion of the “Renoma" department store in Wroclaw, commercial program of a commercial building, modernization of a historic commercial building, commercial and center-forming function of a commercial building.	2
Lec7	Educational trip - to familiarize students with the rebuilding of a department store, commercial functions, storage and utility resource base, multilevel parking.	2
Lec8	Design and implementation of the new building of the Faculty of Law of the University of Wroclaw - stages of the project, other buildings of higher education, new architecture in the historic center of the city.	2

Lec9	Educational trip - tour of building of the faulty, solutions of lecture halls, scientific library, technical infrastructure.	2
W10	Design and implementation of the shopping center "Galeria Dominikańska", architecture of shopping centers, galleries, social and city-forming functions of commercial buildings.	2
W11	Educational trip - tour of a shopping mall, Commercial functions, resource bases and technical infrastructure.	2
W12	Forms of active recreation in the city on the basis of extreme sports center and a neighborhood cultural center in Wroclaw, the formulation of function vs. implementation of the complex.	2
W13	Other recreational complexes resulting from the diversity of social and cultural needs, activities of communities. Formulating programs, the process of design and implementation.	2
W14	Problems of modern hotels on the basis of implementations in Wroclaw, categories and standards of hotel facilities, learning the requirements.	2
W15	Educational trip - tour of a hotel, entrance area, residential, gastronomy, parking area.	2
	Total hours	**30**

TEACHING TOOLS
N1. for lectures: Expository lecture, multimedia presentation, problem-solving lecture preparation of an outline of a selected topic or problem.

ASSESSMENT OF ACHIEVEMENT OF LEARNING OUTCOMES

Assessment (F – formative (during the semester), S – summative (at the end of semester)	Number of learning outcome	Method of assessing the achievement of learning outcome
F1	PE_W01, PE_W02, PE_W03, PE_W04,	Assessment based on active participation in lecture α_1=0,6
F2	PE_U01, PE_U02,	Grade for the content of the outline – α_2=0,3
F3	PE_U03,	Assessment for the presentation of problems covered by the outline – α_3=0,1
$P1=\alpha_1F1+\alpha_2F2+\alpha_3F3$, gdzie α_1=0.6, α_2=0.3, α_3=0.1, $\sum\alpha=1$		

P1 - Final grade for exam

BASIC AND ADDITIONAL LITERATURE

BASIC LITERATURE:

[1] NIEMCZYK E., Hala Ludowa we Wrocławiu, Wrocław 1997.

[2] KONARZEWSKI L., Projekt i realizacja przebudowy wnętrza Hali Ludowej we Wrocławiu w latach 1995-1997, [w:] Architektura Wrocławia, t. 4, GMACH, praca zbiorowa pod redakcją Jerzego Rozpędowskiego, Instytut Historii Architektury, Stuki i Techniki Politechniki Wrocławskiej, Wrocław 1998. - str. 495 – 517.

[3] KONARZEWSKI L., Przebudowa Sali widowiskowej Hali Ludowej na tle współczesnych tendencji organizacji widowisk estradowych, wystaw i turniejów sportowych. Raport Wydziału Architektury Politechniki Wrocławskiej, Wrocław 2001.

[4] ILKOSZ J., Hala Stulecia i Tereny Wystawowe we Wrocławiu – dzieło Maksa Berga, Muzeum Architektury we Wrocławiu , Wrocław 2005.

[5] KOZIŃSKI T., Projektowanie obiektów handlowych, Arkady. Warszawa 1980.

[6] WIRSZYŁŁO R. - Praca zbiorowa, Urządzenia sportowe, Planowanie, projektowanie, budowa, użytkowanie Arkady Warszawa 1982

[6] CUDNIK ZBIGNIW, Skarbnice wiedzy Ossolineum Wrocław 1980

[7] KOZIŃSKI., Projektowanie obiektów handlowych. Arkady , Warszawa.

[8]Urządzenia sportowe, planowanie, projektowanie, użytkowanie. Praca zbiorowa pod redakcją Romualda Wirszyłło, Arkady, Warszawa 1982.

[9] Projektowanie budynków biurowych. Praca zbiorowa. Arkady. Warszawa.

[10] KIRSCHKE K., KIRSCHKE P., Wrocławskie domy towarowe, (w:) Architektura Wrocławia, t. 4, Gmach, red. J. Rozpędowski, Wrocław 1998, s. 355-386.

[11] OMILANOWSKA M., Świątynie handlu. Warszawska architektura komercyjna doby wielkomiejskiej, Warszawa 2004

[12] KULAK T., Historia Wrocławia, t. 2, Wrocław 2001

[13] DRAMKOWSKI T, CZERNER O. Wrocław z lotu ptaka. Ossolineum. Wrocław 1985.

ADDITIONAL LITERATURE:

[1] BIŃKOWSKA I., Wrocław - Fotografie z przełomu XIX i XX wieku, VIA – Wydawnictwo 1993.

[2] Architectural Theory from the Renaissance to the Present, red. B. Evers, Ch. Thoenes, Köln, London, Los Angeles, Madrid, Paris, Tokyo 2003.

[3]LIEBESKIND Daniel, Między liniami, [w:] „Architektura“ 09, 2003, s. 41-44.

[4] STIASNY Grzegorz, Za wspólną fasadą, [w:] „Architektura“ 09, 2003, s. 45-54.

[5] CERVER F. A., The World of Contemporary Architecture, Barcelona 2003.
Contemporary European Architects Volume III, 1995 Köln

[6] GEIST J. F., Passagen ein Bautyp des 19. Jahrhunderts, München 1982

[7] MOSS M., TUTON A., A Legend of Retailing House of Fraser, London 1989

[8] MOUNT C. M., The New Restaurant, Dining Desgn 2, New York 1995.

[9] NIEDERWÖHRMEIER H., NIEDERWÖHRMEIER K., Neue Glaspassagen, Stuttgart 1986.

[10] ZEIDLER E. H., Multi-Use Architecture in the Urban Context, New York 1985.

[11] Raporty Wydziału Architektury Politechniki Wrocławskiej dotyczące zrealizowanych obiektów.

COURSE ADVISOR (NAME, SURNAME, E-MAIL)

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EQUIVALENCY MATRIX OF LEARNING OUTCOMES FOR COURSE
DESIGNING PUBLIC BUILDINGS - CASE STUDY
WITH THE LEARNING OUTCOMES FOR ARCHITECTURE AND URBAN PLANNING MAJOR

Course learning outcome	Relation of course outcome with learning outcomes formulated for the major	Course objectives	Curriculum content	No. of teaching tool
PEK_W01 (knowledge)	K2AiU_W01, K2AiU_W02, K2AiU_W03, K2AiU_W06, K2AiU_W09	C1-C5	Lec1-y4,Lec6, Lec8,Lec10, Lec12,Lec13, Lec14	N1
PEK_W02	K2AiU_W01, K2AiU_W02, K2AiU_W04, K2AiU_W08	C2-C4	Lec2,Lec4,Lec6, Lec8,Lec10, Lec12-Lec14	N1
PEK_W03	K2AiU_W01, K2AiU_W08, K2AiU_W09	C3-C5	Lec1-Lec15	N1
PEK_W04	K2AiU_W01, K2AiU_W03, K2AiU_W05, K2AiU_W07, K2AiU_W08	C-2,C-5	Lec1,Lec4,Lec6, Lec8,Lec10, Lec12-Lec14	N1
PEK_U01 (skills)	K2AiU_U03, K2AiU_U04, K2AiU_U05, K2AiU_U06	C1-C5	Lec1,Lec4,Lec6, Lec8,Lec10-Lec14	N1
PEK_U02	K2AiU_U05, K2AiU_U09, K2AiU_U010, K2AiU_U011	C1-C5	Lec1-Lec15	N1
PEK_K01 (competencies)	K2AiU_K01, K2AiU_K03, K2AiU_K04, K2AiU_K05	C1-C3,C5	Lec1,Lec4,Lec6, Lec8,Lec10, Lec12-Lec14	N1

FACULTY OF ARCHITECTURE OF WRUT

COURSE SYLLABUS

HISTORY OF SILESIAN ARCHITECTURE 2 – MODERNITY AND TODAY

Course title in English
Academic major: Architecture and Urban Planning

Course level and study mode: second cycle, full-time
Course type: elective
Course code AUA ….
Group of courses No

	Lecture	Tutorial	Lab	Project	Seminar
Number of contact hours	30	-	-	-	-
Number of student workload hours	60	-	-	-	-
Grading policy	**pass with grade**	-	-	-	-
Mark (X) for final course in a group of courses					
ECTS points:	**2**				
including ECTS points for practical hours (P)					
including ECTS points for contact hours (CH)					

*delete as applicable

PREREQUISITES RELATING TO KNOWLEDGE, SKILLS AND OTHER COMPETENCIES

Knowledge of the History of World and Polish Architecture - modernity

COURSE OBJECTIVES

C1 - To introduce students to contemporary views on functioning of architecture in the social space and with new research standards in analyzing former architecture.

C2 – To systematize and increase the knowledge of the history of architecture, urban planning and forming of the landscape in modern Silesia (XVI-XX c.), including contemporary interdisciplinary research optics and the newest arrangements.

C3 – To increase the ability to analyze architectural aspects necessary for understanding the function and content of architecture (social and landscape circumstances; architecture as the structure and component of structures; media features of architecture; semantics of architectural forms, etc.).

C4 - To increase skills in graphically visualizing the results of historical-architectural studies in a way that takes into account the state of the knowledge about the structure, the essence of historical formation and the purpose of presentation.

Related to knowledge:
PEK_W01: Demonstrate systematic and theoretically grounded knowledge of history of Polish and European modern architecture between the 16th and 20th centuries, understand the dependencies between architecture and the civilizational background of the era.
PEK_W02: Demonstrate the ability to retrieve information from literature, databases and other sources, demonstrate the ability to integrate, interpret the obtained data and draw conclusions and formulate and justify opinions
Related to skills:
PEK_U01: Perform basic queries for architecture studies (in terms of construction history and function of the building)
PEK_U02: Analyze a work of architecture (in terms of the history of construction, utility and ideological functions, relationship with the environment)
PEK_U03: Graphically visualize the results of historical-architectural studies in a way that takes into account the state of the knowledge about the structure, the essence of historical formation and the purpose of the visualization.
Related to social competencies:
PEK_K01: Demonstrate awareness of the non-technical aspects of engineer's work
PEK_K02: Demonstrate awareness of the values of historical and cultural heritage and its social significance
PEK_K03: Understand the social role of the graduate of a technical university, in particular understand the need to protect the cultural heritage.

CURRICULUM CONTENT		
Mode of teaching - lectures		**Number of hours**
Lec1	1. Tasks of architecture and the sense of learning about its history - debate attempt. 2. Contemporary of paradigm of art history: evolution of objectives and research methods in the 20th century; architecture as the medium in social communication, media functions and means of architectural language; architecture as a structure and elements of structures. 3. Comments on the scientific and pre-project study of modern Silesian architecture: interpretation of sources and studies; methods of analysis and visualization of the historic site for the purpose of the project.	2
Lec2	4. "Early modern era" in European culture and architecture; retrospective and prospective tendencies - genesis and the social sense; Silesia in the years 1450-1740 - architectural topics, reception of European standards and "social base" of architecture. 5. Portrait of the Silesian feudal lord in architecture of "late feudalism". Systemic and mental manifestations of the feudal system in modern times; ideologies, role models, governance and media resources of its manifestations. Topography of property land in Silesia. Transformation of architectural and ideological formulas of residence - castle, palace, mansion, villa; transformation of their architectural language of forms.	2
Lec3	Continued: Transformation of functional and spatial disposition of feudal residences; locating, shaping and use of residence rooms and components of its surroundings - homestead, garden, park, landscape. 6. Assignment of subjects of final works. Comments on graphics and contents of old architectural drawings and contemporary standards of measurement documentation.	2
Lec4	7. The vision of God and Church in Silesian architecture of "confessionalization era." Post-Hussite religious trouble, the Reformation and Counter-Reformation, and their	2

	confessional-political manifestations in the art of Silesia. Topography of denominations in Silesia in the years 1530-1740. Liturgy, founder and municipality in the architectural program of Protestant and Catholic churches; transformation of language of forms and "church style". The sacred and the profane in the headstone, burial chapel, castle chapel programs.	
Lec5	continued Analysis of selected reformation and Counter-Reformation programs in church architecture. Architecture and spatial development in monastic estates in Silesia: ideas, strategies, implementations from 17th-18th centuries.	2
Lec6	8. Aspirations of burgesses and feudal lords in the period of the "golden age" and slump of cities. Spatial development and transformation of the architectural landscape of Silesian cities in the years 1450-1740. Municipal buildings - fortifications, town halls, cloth halls - as a manifestation of the self-government and superior power. Bourgeois house: the architectural program and its social determinants. 9. Silesian countryside landscape in the conditions of "secondary feudalization". Layout and sociotopography of rural settlements in the sixteenth and eighteenth centuries; cottage in the light of sources - forms, functions, structures, the way of living. 10. Review of progress of final work	2
Lec7	11. "Late modern era" and the "newest times" in culture and architecture of Europe and Silesia - the disintegration of feudal structures and its consequences; tasks of architecture in years 1740-1920 and 1920-1945; areas of innovation and retrospective. Transformation of the landscape of Silesia - investments of the state, commune, industry. 12. Between classicism and non-classicism - semantics of forms in late modern architecture of Silesia; conventions of style vs. functions of buildings and their landscape context.	2
Lec8	13. Palace or villa? Functioning of country and suburban registered offices in Silesia in the years 1740-1945: functional innovations in the forming of the residence and surroundings; composition of garden, park, landscape; adaptation of medieval castles and ruins.	2
Lec9	14. City: between aesthetics and functionality in the 19th century. The role of Prussian political reforms; the process of demolishing of fortifications, territorial , socio-topographic and infrastructure transformations in the cities of Silesia. Emancipation of the burgesses in the mirror of architecture, urban planning and garden art. Outline of the evolution of forms and functions of residential buildings using the example of Wroclaw.	2
Lec10	15. Modernity as a social program. Wroclaw city planning, architecture and landscaping in the years 1900 to 1945.	2
Lec11	16. Disputes about the sacrum of church buildings. State policy vs. church architecture in Silesia after 1740. Spatial disposition of the Catholic and Protestant churches in the light of the liturgy, theology and standards of "church style". Manifestations of liturgical reforms.	2
Lec12	17. Silesian village in post-feudal reality. The influence of the Prussian political and agrarian reform on the rural landscape; colonization by Frederick the Great and building regulations. The house and the homestead - forms and functions, models and architectural catalogs.	2

	18. Regionalism and traditionalism in Silesian architecture in the years 1910-1945. Ideology, aesthetics, contextual conditioning .	
Lec13	19. Peripheries of Silesian architecture - architecture on the Silesian outskirts. Monuments of rural industry, hydro-technical facilities, transformer towers, field fortifications, viewing towers, garden buildings.	2
Lec14	20. Overview of final works: presentation of studies, discussion (objectives and methods of visualizing the former architecture, spatial context in the visualization of buildings; boundaries of imagination in visualizing the non-existent state).	2
Lec15	Does contemporary Silesian architecture exist? Successes and failures of the years 1945 - 2012 - discussion attempt .	2
	Total hours	**30**

TEACHING TOOLS
N1. multimedia presentations N2. Problem-oriented lecture with elements of expository lecture. N3. consultation

ASSESSMENT OF ACHIEVEMENT OF LEARNING OUTCOMES

Assessment (F – formative (during the semester), S – summative (at the end of semester)	Number of learning outcome	Method of assessing the achievement of learning outcome
F1	PEK_W01, PEK_W02, PEK_U01 PEK_U02	Assessment of attendance.
F2	PEK_W01, PEK_W02, PEK_U01 PEK_U02	Assessment of content quality of final work
F3	PEK_U03	Assessment of the graphic design of final work
F4	PEK_K01 PEK_K02 PEK_K03	Assessment of the method of presentation of final work
P= 0.3 x F1 + 0.3 x F2 + 0.3 x F3 + 0.1 x F4		

BASIC AND ADDITIONAL LITERATURE

BASIC LITERATURE:

[259] Chartier R. (red.), *Historia życia prywatnego*, t. 3: *Od renesansu do oświecenia*. Wrocław-Warszawa-Kraków 1999
[260] Harasimowicz J., *Na skrzyżowaniu europejskich dróg: Dolny Śląsk*, Wrocław 2007
[261] Hoppe S., *Was ist Barock? Architektur und Städtebau Europas 1580-1770*. Darmstadt 2003
[262] Kwaśniewski A, *Między „retrospektywą" a „progresją": uwagi o komunikatywnych funkcjach architektury czyli o sensie historyzmów*. (W:) *Svornik 8/2010. Sborník příspěvků z 8. specializované konference stavebněhistorického průzkumu uspořádané 9.-12.6.2009 v Děčíně. Historismy*. Praha 2010, s. 23-44
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[265] Perrot M., *Historia życia prywatnego*, t. 4: *Od rewolucji francuskiej do I wojny światowej*. Wrocław-Warszawa-Kraków 1999
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ADDITIONAL LITERATURE:

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[178] Biller Th., Großmann G. U., *Burg und Schloss. Der Adelsitz im deutschsprächigen Raum*. Regensburg 2002
[179] Bińkowska I., *Natura i miasto. Publiczna zieleń miejska we Wrocławiu od schyłku XVIII do początku XX wieku*. Wrocław 2006
[180] Brzezowski W., *Dom mieszkalny we Wrocławiu w okresie baroku*. Wrocław 2005
[181] Chorowska M., Dudziak T., Jaworski K., Kwaśniewski A., *Zamki sudeckie,* t. 2. *Księstwo jaworskie*, Wrocław 2008
[182] Czechowicz B., *Mecenat książęcy na Śląsku w okresie średniowiecza*. Warszawa 2005
[183] Czerner R., Zabudowy rynków. Średniowieczne bloki śródrynkowe wybranych dużych miast Śląska, Wrocław 2002
[184] Dobesz J., Wrocławska architektura spod znaku swastyki na tle budownictwa III Rzeszy. Wrocław 1999
[185] Gryglewska A., *Architektura Wrocławia XIX-XX wieku w twórczości Richarda Plüddemanna*. Wrocław 1999
[186] Hoppe S., Müller M., Nußbaum N. (red.), *Stil als Bedeutung in der nordalpinen Ranaissance. Wiederentdeckung einer methodischen Nachbarschaft* (2. Sigurd-Greven Kolloquium zur Renaissanceforschung). Regensburg 2008
[187] Ilkosz J., Störkuhl B. (red.), *Hans Poelzig we Wrocławiu. Architektura i sztuka 1900-1916*. Wrocław 2000
[188] Jagiełło-Kołaczyk M., *Sgraffita renesansowe na Śląsku 1540-1650*. Wrocław 2003
[189] Kalinowski K., *Architektura doby baroku*. Warszawa 1978
[190] Kirschke K., *Fasady wrocławskich obiektów komercyjnych z lat 1890-1930*. Wrocław 2005
[191] Kononowicz W., *Wrocław, kierunki rozwoju urbanistycznego w okresie międzywojennym*. Wrocław 1997
[192] Müller M., *Das Schloß als Bild des Fürsten. Studien zur herrschaftlichen Metaphorik in der Residenzenarchitektur des Alten Reichs (1470-1618) unter besonderer Berücksichtigung Mitteldeutschlands*. Göttingen 2005
[193] Nußbaum N, Euskirchen C., Hoppe S. (red.), *Wege zur Renaissance. Beobachtungen zu den Anfängen neuzeitlicher Kunstauffassung im Rheinland und den Nachbargebieten* (1. Siguard Greven-Kolloquium zur Renaissanceforschung). Köln 2003, s. 261-283
[194] Różycka-Rozpędowska E., *Późnorenesansowe dwory śląskie. Z badań nad architekturą świecką Śląska XVI-XVII w.* ,(w:) *Sztuka około 1600*. Warszawa 1974, s. 247-292
[195] Szafrańska M. (red.), *Ogród. Forma - symbol – marzenie*. Warszawa 1998
[196] Tomaszewicz A., *Wrocławski dom czynszowy 1808-1918*. Wrocław 2003
[197] Wrabec J., *Architektoniczny język Dienzenhoferów czeskich na Śląsku*. Wrocław 2004

[198] Wyrzykowska M., Śląsk w orbicie Wiednia. Artystyczne związki Śląska z Arcyksięstwem Austriackim w latach 1648-1741. Wrocław 2010
[199] Zabłocka-Kos A., Sztuka – wiara – uczucie. Alexis Langer śląski architekt neogotyku. Wrocław 1996
[200] wybrane artykuły w periodykach i seriach wydawniczych, jak: „Roczniki Sztuki Śląskiej", „Biuletyn Historii Sztuki", „Kwartalnik Architektury i Urbanistyki", „Sobótka", „Prace Naukowe Instytutu Historii Architektury, Sztuki i Techniki Politechniki Wrocławskiej", „Dzieła i interpretacje" , „Rocznik Historii Sztuki", „Śląsk w zabytkach sztuki", „Pro Libris".
[201] Portal internetowy: Hoppe S., Müller M. (red.), *Architektur als Medium*. http://www.arthistoricum.net/themenportale/architektur-als-medium/; c
[202] Portal internetowy: *Architektur und Gartenkunst – digital*, http://digi.ub.uni-heidelberg.de/de/sammlungen/architektur_gartenkunst.html [traktaty XVI-XIX w. on-line]
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EQUIVALENCY MATRIX OF LEARNING OUTCOMES FOR COURSE
HISTORY OF SILESIAN ARCHITECTURE 2 – MODERNITY AND TODAY
WITH THE LEARNING OUTCOMES FOR ARCHITECTURE AND URBAN PLANNING MAJOR

Course learning outcome	**Relation of course outcome with learning outcomes formulated for the major**	*Course objectives*	**Curriculum content**	**No. of teaching tool**
PEK_W01 (knowledge)	K1AIU_W03	C1, C2, C3	Lec1-Lec15	N1, N2, N3
PEK_W02	K1AIU_W01,	C1, C2, C3, C4	Lec1-Lec15	N1, N2, N3
PEK_U01 (skills)	K1AIU_U06	C1, C2, C3	Lec1-Lec15	N1, N2, N3
PEK_U02	K2AiU_U10 K1AIU_U11	C1, C2, C3, C4		N1, N2, N3
PEK_U03	K1AIU_U01	C2, C3, C4		N1, N2, N3
PEK_K01 (competencies)	K2AIU_K03	C1, C2, C3, C4	Lec1-Lec15	N1, N2, N3
PEK_K02	K2AIU_K03	C1, C2, C3, C4	Lec1-Lec15	N1, N2, N3
PEK_K03	K2AIU_K04	C1, C2, C3, C4	Lec1-Lec15	N1, N2, N3

Zał. nr 3 do ZW

Faculty of Architecture of WrUT

COURSE SYLLABUS
URBAN STRATEGIES

Course title in English Urban Strategies
Academic major: Architecture and Urban Planning
Study cycle and study mode: second cycle, full-time
Course type: elective
Course code: AUA000303S
Group of courses: NO

	Lecture	Tutorial	Lab	Project	Seminar
Number of contact hours	30				
Number of student workload hours	30				
Grading policy	credit				
ECTS points:	3				
Including ECTS points for practical hours (P)					
Including ECTS points for contact hours (CH)	2				

PREREQUISITES RELATING TO KNOWLEDGE, SKILLS AND OTHER COMPETENCIES

1. KNOWLEDGE

Knowledge of basic problems of urban design and spatial planning

COURSE OBJECTIVES

C1 - Overview of issues relating to the construction of the modern city structure and principles of its functioning.
C2 - To introduce students to development prospects of designing dynamic urban systems.
C3 - To present contemporary urban designs (urban strategies) with consideration of parameters of clarity of form and flexibility of structure development.
C4 – To systematize contemporary methods of graphic conventions in planning with regard to opportunities to build flexible urban systems.

COURSE LEARNING OUTCOMES

1. KNOWLEDGE

PEK_W01 - Demonstrate knowledge of the factors that influence the space (structure) and functioning of contemporary city.
PEK_W02 - Identify the complexity and network character of contemporary urban layouts.
PEK_W01 demonstrate knowledge of the urban strategies that take into account the contemporary development trends

2. SKILLS:

PEK_U01 - Demonstrate the ability to analyze and interpret urban strategies for issues of aesthetics (clarity of form), organization (flexibility in the development of structure).

3. OTHER COMPETENCIES:

PEK_K01 - Demonstrate awareness of the possibilities of flexible development of urban layouts through planning provisions.

CURRICULUM CONTENT		
Mode of teaching - lectures		**Number of hours**
Lec1	Introduction transformation of a European city, background	2
Lec2	Contemporary city, its structure and functioning grid and structure, form and organization, flows, transport, waste, information, digitization of public space, the social role of topography	2
Lec3, Lec4	Clarity and flexibility of the city structure planning process, form and program, “scenography", "city of images", representation and presentation, "new volume", "new programs", "open structure", "weak" and "strong" urban design,	4
Lec5, Lec6	Network character of contemporary city activities, nodes, contacts, corridors, technical infrastructure, transport, mobile networks,	4
Lec7	City as a dynamic complex system planning / control, need / conflict, inertia / balance, discussion / participation, cooperation, public transport	2
Lec8	Ancestors of modern urban designs urban utopias of late 20th century, urban concepts of Rem Koolhaas and Bernard Tschumi	2
Lec9	Method 1: "grid" (quarter) “2D grid", frontage regulation, node plan/elements, building/terrace/structure, “full quarter", “free quarter" ("free block")	2
Lec10	Method 2: "object" “container", “tower", “building/island", "new topography", "infrastructure", “assembly/program", assembly/body", “program concentration"	2
Lec11	Method 3: "landscape" “background-grid" ("clearing"), “background-base" (“carpet"), “binder" ("casco") “assembly" ("montage")	2
Lec12	Method 5: "grafting" fractal structures, "hybridization", “grafting", "morphing", "adherence"	2
Lec13	Method 6: “mapping" conceptual maps, visualization of information, strategic maps, operational diagrams, codification, mapping levels	2
Lec14, Lec15	Modern methods of regulation and organization of space regulatory plan, "zoning" spatial codes, "floor" ("carpet"), "wall", "roof", "area / volume", "parceling / building", "edge / reserve", "air rights", "active regulation", "diagram", "soft tissue"	4
	Total hours	**30**

TEACHING TOOLS
N1. Expository lecture with elements of problem-solving lecture. N2. multimedia presentations

ASSESSMENT OF ACHIEVEMENT OF LEARNING OUTCOMES		
Assessment (F – formative (during the semester), S – summative (at the end of semester)	Number of learning outcome	Method of assessing the achievement of the learning outcome
P	PEK_W01, PEK_W02, PEK_W03, PEK_U01, PEK_K01	Written test - α_1=1
P =α_1 where α_1=1, Σ α=1		

BASIC AND ADDITIONAL LITERATURE

BASIC LITERATURE:

1. Aleksander Ch., Angel S., Ishigawa S., , Jacobsen M., King I., Silversten M.: A Pattern Language, New York 1977
2. Maizner K.: Poznawanie złożoności. Obliczeniowa dynamika złożoności materii umysłu I ludzkości, Wydawnictwo Uniwersytetu Marii Curie-Skłodowskiej, Lublin 2007
3. van't Hof Ch., van Est R., Daemen F. : Check in/ Check out. The Public Space as an Internet of Things, Nai Publishers, Rotterdam 2011
4. Lehnerer A. : Grand Urban Rules, 010 Publishers, Rotterdam 2009
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6. Shane D.G. : Recombinant Urbanism. Conceptual Modeling in Architecture, Urban Design, and City Theory, Wiley Academy, Chichester 2005
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ADDITIONAL LITERATURE:

1. Benevolo L.: Miasto w dziejach Europy, KRAG, Warszawa 1995
2. Ching Francis D.K.: Architecture; Form, Space & Order, Van Nostrand Reinhold, Rotterdam 1996
3. Chmielewski Jan Maciej: Teoria urbanistyki w projektowaniu i planowaniu miast, Oficyna Wydawnicza Politechniki Warszawskiej, Warszawa 2001
4. Christiaanse Kees: The city as loft, , Topos 29/2000
5. Gehl Jan: Life Between Buildigs, Kobenhaven 1980
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7. Koolhaas Rem, Mau Bruce: S, M, L, XL. O.M.A., The Monacelli Press, New York 1995
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10. Ostrowski W.: Wprowadzenie do historii budowy miast. Ludzie i środowisko, Oficyna Wydawnicza Politechniki Warszawskiej, Warszawa 1996
11. Rossi A.: The Architecture of the City, MIT Press, Cambridge 1982
12. Smets Marcel: Grid, Casco, Clearing, Montage,Topos 38/2002
13. Tschumi B.: Event Cities, MIT Press, Cambridge 1984
14. Bianchini Franco: Cultural planning. An innovative approach to urban development, Jyvaskyla 1996
15. Corijn Eric: Urban cultural policies, Jyvaskyla 1996

16. Kirkpatrick Janice: Design as a tool for cultural change, , Jyaskyla 1996
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18. Böhm A.: O budowie synergii wnętrz urbanistycznych, Wydawnictwo Politechniki Krakowskiej, Kraków 1981
19. Czarnecki Władysław:Planowanie Miast i Osiedli, PWN, Warszawa 1970
20. Curdes G.: Stadtsruktur und Stadtgestaltung, Kohlhammer, Stuttgart 1993
21. Forma miasta. Kontekst i anatomia, IGPiK, Warszawa 1992
22. Francis C., Marcus C.C., People Places: Design Guide Lines for Open Space, John Willey and Sons, New York 1998
23. Gawlikowska A.: Ulica w strukturze miasta, Oficyna Wydawnicza Politechniki Warszawskiej 1992
24. Gyurkovich J.: Znaczenie form charakterystycznych dla kształtowania i percepcji przestrzeni – wybrane zagadnienia, Pollitechnika Krakowska, Kraków 1999
25. Hovelborn P.: Offentlicher Raum. Texteil, Stadtebaulisches Institut der Universitat Stuttgart 1983
26. Hovelborn P.: Offentlicher raum. Bildtefeln, Stadtebaulisches Institut der Universitat Stuttgart 1983
27. Ibelings H.: The artificial Landcscape. Contemporary architecture, urbanism and landscape architecture in Netherland, NAI Publishers 2001
28. Korzeniewski Władysław: Budownictwo mieszkaniowe. Poradnik projektanta, Arkady, Warszawa 1989
29. Kainrath W.:Die Bandstadt. Stadtebaulische Vision oder Reales Modell der Stadtenwiklung?, Picus Verlag, Wien 1997
30. Kopietz-Unger J.: Urbanistyka w systemie planowania przestrzennego, Wydawnictwo Politechniki Poznańskiej, Poznań 2000
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37. Prinz D.: Stadtebau, Bd.2, Kohlhammer, Stuttgart 1993
38. Regulski J.: System sterowania miastem – problemy i koncepcje, PWN, Warszawa 1976

EQUIVALENCY MATRIX OF LEARNING OUTCOMES FOR COURSE
URBAN STRATEGIES
WITH THE LEARNING OUTCOMES FOR ARCHITECTURE AND URBAN PLANNING MAJOR

Course learning outcome	Relation of course outcome with learning outcomes formulated for the major	Course objectives	Curriculum content	Number of teaching tool
PEK_W01	K2AiU_W02, K2AiU_W03	C1	Lec2, Lec3, Lec4, Lec5, Lec6, Lec7	N1, N2
PEK_W02	K2AiU_W02, K2AiU_W03	C2	Lec5, Lec6, Lec7	N1, N2
PEK_W03	K2AiU_W06	C3, C4	Lec8, Lec9, Lec10, Lec11,	N1, N2

			Lec12, Lec13, Lec14, Lec15,	
PEK_U01	K2AiU_U03, K2AiU_U07,	C3, C4	Lec.Lec8, Lec9, Lec10, Lec11, Lec12, Lec13, Lec14, Lec15,	N1, N2
PEK_K01	K2AiU_K03;	C3, C4	Lec2, Lec3, Lec4, Lec5, Lec6, Lec7, Lec14, Lec15	N1, N2

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FACULTY OF ARCHITECTURE

COURSE SYLLABUS
ORGANISATION OF SPATIAL PLANNING

Course title in English SPATIAL PLANNING ORGANIZATION
Academic major: **ARCHITECTURE AND URBAN PLANNING**
Specialization: Urban Planning
Study cycle and study mode: second cycle, full-time
Course type: elective
Course code AUA105702W
Group of courses No

	Lecture	Tutorial	Lab	Project	Seminar
Number of contact hours	30				
Number of student workload hours	60				
Grading policy	pass with grade				
Mark (X) for final course in a group of courses					
ECTS points:	2				
including ECTS points for practical hours (P)					
including ECTS points for contact hours (CH)	2				

PREREQUISITES RELATING TO KNOWLEDGE, SKILLS AND OTHER COMPETENCIES

39. None

COURSE OBJECTIVES

C1 - To present the goals of spatial planning and the legal bases for preparing and implementing spatial planning project in Poland.

C2 To discuss the role and importance of individual participants in the spatial policy development process in Poland.

C3 To discuss the organization of spatial planning in selected countries.

COURSE LEARNING OUTCOMES

Related to knowledge:

PEK_W01 Demonstrate knowledge in the development and implementation of the national spatial policy.
PEK_W02 Demonstrate knowledge of the spatial planning system and basic tools of spatial policy in Poland.
PEK_W03 Demonstrate basic knowledge of the spatial planning system and basic tools of spatial policy in EU countries.

Related to skills:

PEK_U01 Interpret guidelines from superior planning studies and implement them in design work.

Related to social competencies:

PEK_K01 Understand the impact of provisions of land-use plans on the urban shape and functioning of space.

CURRICULUM CONTENT		
Mode of teaching - lectures		**Number of hours**
Lec 1	objectives of spatial planning	2
Lec2	history of spatial planning in Poland	2
Lec 3	entities dealing with spatial planning in Poland	2
Lec 4	participants of the spatial transformation process	2
Lec 5	functions of local authorities	2
Lec 6	central planning - national spatial development concept	2
Lec7	regional planning - land use plans for provinces	2
Lec 8	local planning	2
Lec 9	other tools for spatial planning policy in Poland	2
Lec10	control of the economic value of space	2
Lec 11	protection of natural space in Poland	2
Lec 12	spatial planning in Germany;	2
Lec 13	spatial planning in the USA;	2
Lec 14	spatial planning in Great Britain;	2
Lec 15	implementation of the national spatial policy	2
	Total hours	**30**

TEACHING TOOLS
N1. Expository lecture with elements of problem-solving lecture. N2. multimedia presentations N3. Interactive lecture. N4. consultations

ASSESSMENT OF ACHIEVEMENT OF LEARNING OUTCOMES

Assessment (F – formative (during the semester), S –	Number of learning outcome	Method of assessing the achievement of learning outcome

summative (at the end of semester)		
P		Final test

BASIC AND ADDITIONAL LITERATURE
BASIC LITERATURE: [1] Domański R.: *Gospodarka przestrzenna*, Wydawnictwo Naukowe PWN, Warszawa, 2002 [2] Pęski W.: *Zarządzanie zrównoważonym rozwojem miast*, Arkady, Warszawa, 1999 **ADDITIONAL LITERATURE:** [204] Act on spatial planning and management, Dziennik Ustaw No 80 of 2003, item. 717
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Professor Robert Masztalski robert.masztalski@pwr.wroc.pl

EQUIVALENCY MATRIX OF LEARNING OUTCOMES FOR COURSE
ORGANISATION OF SPATIAL PLANNING
WITH THE LEARNING OUTCOMES FOR ARCHITECTURE AND URBAN PLANNING MAJOR

Course learning outcome	Relation of course outcome with learning outcomes formulated for the major	Course objectives	Curriculum content	No. of teaching tool
PEK_W01 (wiedza)	K2AiU_W07	C-1	Lec 1-2	N1-4
PEK_W02	K2AiU_W07	C-2	Lec 3-11, Lec15	N1-4
PEK_W03	K2AiU_W07	C-3	Lec 12-14	N1-4
PEK_U01 (skills)	K2AiU_U01	C-1, C-2, C-3	Lec 1-15	N1-4
PEK_K01 (competencies)	K2AIU_K03	C-2	Lec 1-15	N3-4