Documentation of the curriculum of the Master's Degree (second cycle) course in Architecture

1. *Overall description of the studies carried out:*

1) name of the degree course: **Architecture**

2) education level: **second cycle /Master's degree**

3) education profile: **general academic**

4) mode of study: **full-time**

5) degree title conferred: **Master of Engineering Architect**

6) field: **engineering and technical sciences**

scientific discipline: **architecture and urban planning**

7) differences in relation to other curricula run at the University and assigned to the same academic discipline or, where a course is assigned to more than one discipline, assigned to the same leading discipline.

There are no courses at the Lublin University of Technology with similarly defined learning objectives and outcomes.

2. *Description of the graduate profile*

The Master's degree studies prepare for the profession of an architect. The overall objective of the studies is for the graduates to achieve learning outcomes in the field of detailed and advanced knowledge and advanced skills, as well as competences in architectural and urban design, conservation design, application of design development procedures taking into account social factors, solving complex functional, utilitarian, technological problems, so as to ensure safety and comfort of use of facilities, including people with special needs. Graduates have knowledge of construction economics and organisation of the construction process, integration of urban plans with planning projects. He/she knows the role of the architect in society, his/her impact on the environment, understands the relationship between people and the space around them. He/she is able to speak a modern language at least at B2+ level according to the European system. He/she is prepared to use foreign procedures, experiences and models in the field of architecture and urban planning. He/she is aware of the principles of professional ethics and pays attention to responsibility, reliability and independence of work performed. The graduates is prepared to work creatively in the field of design, shaping significant elements influencing the development of contemporary architecture and urban planning and national culture. He/she is prepared to perform managerial functions in the

investment and construction process, to coordinate the work of a multi-discipline team, to undertake research work and to conduct business independently.

The educational process is also oriented towards: self-education, improvement of professional qualifications, as well as their adaptation to the requirements and expectations of the labour market and the use of scientific research in the work of an architect.

The graduate may take up employment in design offices, state and local administration units, research and development units and technical consultancy units.

After completing an appropriate internship, he/she has the opportunity to obtain full professional qualification required by law and enabling him/her to perform independent technical functions in construction industry. The graduate is prepared for third cycle studies.

3. *Learning outcomes for the Architecture course*

Appendix 1

4. *Parametric description of the course for full-time studies*

Appendix 2

5. *Description of rules and mode of student internships*

The curriculum includes a summer civil engineering internship of 60 hours (2 weeks), after the second semester of study.

The civil engineering internship is intended to familiarise the architecture students with the organisation of the construction site and the course of construction work as much as possible. Detailed information on the internship, including sample documents and applicable procedures, is available on the University and Faculty website.

At the turn of May and June, information meetings with students are organised at the faculty to explain the rules of the internship. Meetings of students with employers are also organised every year.

Students choose the location for the civil engineering internship on their own.

Students complete their internship on the basis of an internship agreement and contract. The credit for the internship is based on the documented scope of work performed and the characteristics of the intern drawn up by the supervisor.

6. *Description of the rules for conducting the graduation process*

Graduation in the second-cycle studies in the field of architecture takes place in accordance with the Study Regulations in force at the University and the Internal Regulations for Conducting Thesis and Diploma Studies at the Faculty of Civil Engineering and Architecture at Lublin University of Technology. All information concerning the standard of writing the diploma thesis, as well as the regulations in force in this respect, are available on the Faculty website.

The student performs the diploma thesis under the supervision of a person with a scientific background constituting a significant contribution to the development of the scientific discipline of architecture and urban planning, or with a construction licence in the field of architecture without limitations, and with a significant design output.

The completion of the diploma thesis is aimed at achieving by the students the learning outcomes described in detail in the regulation on the educational standard for architects. The achievement of the required learning outcomes is verified during seminars and in the written part of the diploma examination, and primarily through the assessment of the descriptive and graphical parts of the thesis in the context of the correct application of the methodology of scientific work and its practical application in design, as well as scientific creativity. The oral part of the diploma examination, on the other hand, makes it possible to verify the ability to publicly present and defend the architectural solutions proposed by the student.

Topics for diploma theses shall be determined no later than one year before the planned completion of the second-cycle studies. The topics of diploma theses are posted on the notice boards of faculty organisational units. A student chooses a topic that interests him/her, or may propose and agree with a supervisor on another topic corresponding to his/her scientific interests. When determining the topic of the thesis, the student's interests, the usefulness of the thesis and the scientific plan of the organisational unit are taken into account, as well as the possibility of completing the thesis on time.

There is a standard for master's thesis at the faculty, which stipulates the obligatory completion by the student of a thesis consisting of an analytical-descriptive and a design-graphic part. The University uses an anti-plagiarism system in which each thesis is checked.

The diploma examination in the second cycle studies consists of a written and oral part. The written part of the diploma examination consists of answering 5 randomly selected questions. The questions required in the written part of the diploma examination for second cycle studies are posted on notice boards at the faculty and on the faculty website. Questions are made available to students approximately three months before the diploma examination.

The oral part of the examination consists of a presentation of the diploma thesis and a discussion about it. For the oral part of the examination the student is obliged to prepare mock-ups, charts, etc. The oral part of the diploma exam may be taken only by those students who have passed the written part of the exam and submitted their thesis.

7. *Plan of study*

   Appendix 3

8. *Matrix of learning outcomes*

   Appendix 4

9. *Matrix of the verification system of the assumed learning outcomes*

   Appendix 5

10. *Course syllabuses*

    Appendix 6

Course syllabus
Field of study: Architecture
Second-cycle study

Course:	Advanced architectural design
Type of course:	Course from group A.1.
Code of course:	IIA.1.1.
Year:	I
Semester:	I
Mode of study:	Full-time
Form of classes and number of contact hours per semester:	60
Lecture	30
Classes	-
Laboratory	-
Project	30
Number of ECTS credits:	4
Form of assessment:	Lecture - exam, project – credit
Language of instruction:	Polish

Course objectives	
C1	Developing the knowledge and skills acquired in first-cycle architectural design classes
C2	Acquisition of knowledge and skills related to the design of complex objects with high complex conditions

Preliminary requirements in terms of knowledge, skills and other competencies	
1	Ability to use freehand drawing as well as plastic and computer techniques
2	Skills related to the design of objects with low complexity

Learning outcomes	
	In terms of knowledge:
EK 1	Knows complex procedures for the design of architectural objects, taking into account social factors
EK 2	Knows the principles of solving structural, engineering and technological problems in various architectural objects
EK 3	Knows and understands the relationship between man and architecture and between architecture and the surrounding environment
	In terms of skills:
EK 4	Is able to develop sophisticated architectural designs of buildings and their surroundings in accordance with technical and functional requirements
EK 5	Is able to integrate knowledge from different fields of science (theory of architecture and urban planning, fine arts, technical sciences and humanities) in solving design tasks
	In terms of social competence:

EK 6	Is ready to effectively use imagination, intuition, creative attitude and independent thinking in order to solve complex design problems in accordance with the principles of sustainable development in architecture and urban planning

Course content	
Form of classes – lecture	
	Course content
W1	Discussion of theory related to advanced design: selection of functions, analysis of conditions
W2	Presentation of selected examples of projects related to selected project topics
W3	Presentation of case studies on projects with high complexity
W4	Legal considerations in the design of complex architectural objects
W5	Principles of solving structural, engineering and technological problems in different architectural objects
W6	Architectural design considerations related to the site context
W7	Ecology in the architectural design of complex buildings
Form of classes – project	
	Course content
P1	Pre-design stage: selection of a plot for a specific function or selection of a function or set of functions for a specific plot, development of a utility program, analysis of conditions, field studies, comparative analyzes
P2	Plot development design and architectural design of the facility with complex conditions and significant impact on the surroundings

Teaching methods	
1	Informative lecture (conventional)
2	Conversational lecture
3	Individual project
4	Individual correction

Methods and criteria of assessment		
Symbol of the assessment method	**Description of the assessment method**	**Passing threshold**
O1	Written exam – (drawing and descriptive task of a given design problem)	51%
O2	Degree of advancement and correctness of project implementation (review)	51%
O3	Implementation of the project	——
O4	Oral defense of the project	51%

Required reading	
1	Alexander C., Język wzorców, Gdańskie Wydawnictwo Psychologiczne, Gdańsk 2008
2	Gehl J., Życie między budynkami. Użytkowanie przestrzeni publicznej, wyd. RAM, 2009
3	Gregory R., Key Contemporary Buildings, Plans, Sections and Elevations, W. W. Norton & Company;, 2008

4	Weston R., Plans, Sections and Elevations, Key Buildings of the Twentieth Century, Laurence King Publishing, 2004
5	Rozporządzenie Ministra Infrastruktury z dnia 12 kwietnia 2002 r. w sprawie warunków technicznych, jakim powinny odpowiadać budynki i ich usytuowanie. Dz.U. 2002 nr 75 poz. 690
Supplementary reading	
1	Jodidio Ph., Architecture Now! Vol. 1, 2, 3, 4, 5, 6, 7, Taschen, Kolonia, 2016
2	The Phaidon Atlas of the Contemporary World Architecture, Phaidon Press;, 2004
3	The Phaidon Atlas of 21st Century Architecture, Phaidon Press, 2011

Student workload	
Student activity form	**Average number of hours needed to complete the activity**
Contact hours with the lecturer, including:	**60**
Participation in lectures	30
Participation in design classes	30
Student self-study, including:	**40**
Preparation for the exam	5
Independent project execution	35
Total student workload	**100**
Total ECTS credits for the module/subject:	**4**

Learning outcomes matrix					
Symbol of the learning outcome for the course	**Reference of a particular learning outcome to outcomes defined for the field of study together with the degree of correlation**	**Course objectives**	**Course content**	**Teaching methods**	**Methods of assessment**
EK 1	A2A_W02 +++ A2A_W05 ++	C1, C2	W1, W3, W4, W6, W7	1, 2	O1
EK 2	A2A_W07 +++ A2A_W19 ++	C1, C2	W5	1, 2	O1
EK 3	A2A_W04 +++ A2A_W18 +++	C1, C2	W2, W7	1, 2	O1
EK 4	A2A_U03 +++ A2A_U13 ++	C2	P2	3, 4	O2, O3, O4
EK 5	A2A_U11 +++ A2A_U18 ++	C1, C2	P1, P2	3, 4	O2, O3, O4
EK 6	A2A_K08 +++ A2A_K03 ++	C1, C2	W7, P2	1, 3, 4	O1, O2, O3, O4

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Organizational unit:	Department of Contemporary Architecture

Course syllabus
Field of study: Architecture
Second-cycle study

Course:	Architectural design in historic buildings
Type of course:	Course from group A.1.
Code of course:	IIA.1.2.
Year:	I
Semester:	I
Mode of study:	Full-time
Form of classes and number of contact hours per semester:	60
Lecture	30
Classes	-
Laboratory	-
Project	30
Number of ECTS credits:	4
Form of assessment:	Lecture - credit, project – credit
Language of instruction:	Polish

Course objectives	
C1	Obtaining by the student knowledge of the principles of architectural design in a historical environment
C2	Acquiring by the student the ability to recognize the potential of the existing architectural space and the urban context by analyzing the existing values of a given area, cultural context, location conditions
C3	Acquiring by the student the ability to design a complement to the architectural tissue located in the historical urban tissue

Preliminary requirements in terms of knowledge, skills and other competencies	
1	Knowledge of conservation principles and related issues from the point of view of monument protection
2	Basic skills in architectural design
3	Possessing knowledge about the construction of buildings as well as building materials and technologies of historical and traditional construction

Learning outcomes	
	In terms of knowledge:
EK 1	Knows the detailed problems of architecture and urban planning in solving complex design problems
EK 2	Is familiar with the legal provisions and procedures necessary for the implementation of building projects and the integration of buildings into the overall planning project. He knows the provisions of the Act on the protection of monuments. He knows the rules and procedures for agreeing architectural and conservation projects
	In terms of skills:

EK 3	Is able to design a simple and complex architectural object, creating and transforming space so as to give it new values - in accordance with the set or adopted program, taking into account the requirements and needs of all users, spatial and cultural context, technical and non-technical aspects
EK 4	Is able to integrate advanced knowledge from various areas of science, including history, history of architecture, history of art and protection of cultural goods, when solving complex engineering tasks
	In terms of social competence:
EK 5	It is ready to take responsibility for shaping the natural environment and cultural landscape, including the preservation of the heritage of the region, country and Europe

Course content	
Form of classes – lectures	
	Course content
W1	Formal and legal regulations in the field of conservation protection
W2	Design considerations in the historic tissue
W3	Contemporary buildings in the historical environment
W4	Contemporary trends in urban tissue replenishment
W5	Presentation of good practices of building new buildings in a historical environment
W6	Presentation of bad practices of new construction in the historic environment
Form of classes - project	
	Course content
P1	Performing an analysis of the values found in a given area; analysis of the cultural context and recognition of the potential of the existing architectural structure
P2	Architectural design of new buildings in a historical environment, meeting the conservation requirements

Teaching methods	
1	Lecture with the use of multimedia presentations containing theoretical content and sample solutions
2	Team project

Methods and criteria of assessment		
Symbol of the assessment method	**Description of the assessment method**	**Passing threshold**
O1	Written credit of the lecture content	60%
O2	Degree of advancement and correctness of project implementation (correction)	70%
O3	Implementation of the project	——

Required reading	
1	Ustawa o ochronie zabytków i opiece nad zabytkami, Dz.U. nr 162 z 17.09.2003, poz.1568, 2003

2	Karta Wenecka, Ochrona Zabytków, 1974, 3
Supplementary reading	
1	Adaptacja obiektów zabytkowych do współczesnych funkcji użytkowych, [red:] Szmygin B., Lubelskie Towarzystwo Naukowe, Politechnika Lubelska, Polski Komitet Narodowy ICOMOS, Warszawa-Lublin, 2009
2	Brykowska, M.: Metody pomiarów i badań zabytków architektury, Oficyna Wydawnicza Politechniki Warszawskiej, Warszawa, 2003
3	Kłosek-Kozłowska D., Ochrona wartości kulturowych miast a urbanistyka, Warszawa, 2007
4	Małachowicz E., Konserwacja i rewaloryzacja architektury w środowisku kulturowym, Wrocław, 2007
5	Szmygin B., Vademecum konserwatora zabytków: międzynarodowe normy ochrony dziedzictwa kultury, Polski Komitet Narodowy ICOMOS, Warszawa, 2015
6	Tajchman J., Standardy w zakresie projektowania, realizacji i nadzorów prac konserwatorskich dotyczących zabytków architektury i budownictwa, Narodowy Instytut Dziedzictwa, Warszawa, 2014
7	Współczesne problemy teorii konserwatorskiej w Polsce, [red:] Szmygin B., Międzynarodowa Rada Ochrony Zabytków ICOMOS, Politechnika Lubelska, 2008
8	Zachwatowicz, J., Ochrona zabytków w Polsce, Polonia, Warszawa, 1965

Student workload	
Form of the activity	**Average number of hours needed to complete the activity**
Contact hours with the lecturer, including:	**60**
Participation in lectures	30
Participation in design classes	30
Student self-study, including:	**40**
Preparation for the lecture credit	15
Independent project execution	25
Total student workload	**100**
Total ECTS credits for the module/subject:	**4**

Learning outcomes marix					
Symbol of the learning outcome for the course	**Reference of a particular learning outcome to outcomes defined for the field of study together with the degree of correlation**	**Course objectives**	**Course content**	**Teaching methods**	**Methods of assessment**
EK 1	A2A_W02 +++ A2A_W04 ++	C1	W2, W3, W4, W5, W6	1	O1
EK 2	A2A_W15 +++	C1	W1, W2, W5, W6	1	O1
EK 3	A2A_U03 +++ A2A_U06 ++	C2, C3	P1, P2	2	O2, O3
EK 4	A2A_U11 +++	C2, C3	P1, P2	2	O2, O3

EK 5	A2A_K07 ++	C1, C2, C3	W4, W5, W6, P1, P2	1, 2	O1, O2, O3

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Course syllabus
Field of study: Architecture
Second-cycle study

Course:	Specialised arch. design (module 1 - architectural design in historic buildings)
Type of course:	Course from group A.1.
Code of course:	IIA.1.3.a.
Year:	I
Semester:	II
Mode of study:	Full-time
Form of classes and number of contact hours per semester:	60
Lecture	30
Classes	-
Laboratory	-
Project	30
Number of ECTS credits:	4
Form of assessment:	Lecture - credit, project – credit
Language of instruction:	Polish

Course objectives	
C1	Obtaining knowledge by the student in the field of adaptation and modernization of historic buildings belonging to various typological groups, i.e. tenement houses, public facilities, industrial facilities, sacred buildings
C2	Acquiring by the student the knowledge of contemporary tendencies and trends in designing the modernization of historic buildings
C3	Acquiring by the student the ability to adapt and modernize a historic building, meeting the conservation requirements
C4	Acquiring the ability to adapt a functional program to the existing spatial structure of an object, assessment of its spatial and functional capabilities

Preliminary requirements in terms of knowledge, skills and other competencies	
1	Knowledge of conservation principles and related issues from the point of view of monument protection
2	Having basic skills in architectural design
3	Possessing knowledge about the construction of buildings as well as building materials and technologies of historical and traditional construction

Learning outcomes	
	In terms of knowledge:
EK 1	Knows the basic methods and techniques of maintenance, modernization and supplementation of historic structures
EK 2	Knows advanced analysis methods, tools, techniques and materials necessary for preparation of design concepts in an interdisciplinary environment, with particular emphasis on inter-branch cooperation

EK 3	Knows and understands advanced issues related to architecture and urban planning useful in designing architectural objects in the context of social, cultural, natural, historical, economic, legal and other non-technical conditions of engineering activity, integrating the knowledge acquired during studies
	In terms of skills:
EK 4	Is able to develop a conservation design concept for transforming an architectural and urban structure with cultural values, taking into account the protection of these values and appropriate methods and techniques
EK 5	Is able to make a critical analysis and evaluation of the project and the method of its implementation in the field of modernization and supplementation of architectural and urban structures with cultural values
	In terms of social competence:
EK 6	Is ready to effectively use imagination, intuition, creative attitude and independent thinking to solve complex design problems

Course content	
Form of classes – lectures	
	Course content
W1	Formal and legal conditions related to the adaptation of historic buildings
W2	Contemporary socio-economic realities in the adaptation of historic complexes
W3	Analysis of a historic object as an element of adaptation to modern utility functions
W4	The issues of adaptation of historic buildings to modern functions
W5	Examples of modernization and adaptation of historic buildings - tenement houses
W6	Examples of modernization and adaptation of historic buildings - public facilities
W7	Examples of modernization and adaptation of historic buildings - industrial facilities
W8	Examples of modernization and adaptation of historic buildings - sacred buildings
W9	Good and bad practices in the adaptation of historic buildings
Form of classes - project	
	Course content
P1	Implementation of a project for adaptation and modernization of a historic building belonging to various typological groups, i.e. tenement houses, public facilities, industrial facilities, sacred buildings

Teaching methods	
1	Lecture with the use of multimedia presentations containing theoretical content and sample solutions
2	Team project

Methods and criteria of assessment		
Symbol of the assessment method	**Description of the assessment method**	**Passing threshold**
O1	Written credit of the lecture content	60%

O2	Degree of advancement and correctness of project implementation (correction)	70%
O3	Implementation of the project	——

Required reading	
1	Ustawa o ochronie zabytków i opiece nad zabytkami, Dz.U. nr 162 z 17.09.2003, poz.1568, 2003
2	Karta Wenecka, Ochrona Zabytków, 1974, 3
3	Adaptacja obiektów zabytkowych do współczesnych funkcji użytkowych, [red:] Szmygin B., Lubelskie Towarzystwo Naukowe, Politechnika Lubelska, Polski Komitet Narodowy ICOMOS, Warszawa-Lublin, 2009
Supplementary reading	
1	Współczesne problemy teorii konserwatorskiej w Polsce, [red:] Szmygin B., Międzynarodowa Rada Ochrony Zabytków ICOMOS, Politechnika Lubelska, 2008
2	Brykowska, M.: Metody pomiarów i badań zabytków architektury, Oficyna Wydawnicza Politechniki Warszawskiej, Warszawa, 2003
3	Kadłuczka A., Ochrona zabytków architektury. Zarys doktryn i teorii, t. 1, Stowarzyszenie Konserwatorów Zabytków, Kraków 2000
4	Szmygin B., Vademecum konserwatora zabytków: międzynarodowe normy ochrony dziedzictwa kultury, Polski Komitet Narodowy ICOMOS, Warszawa, 2015
5	Tajchman J., Standardy w zakresie projektowania, realizacji i nadzorów prac konserwatorskich dotyczących zabytków architektury i budownictwa, Narodowy Instytut Dziedzictwa, Warszawa, 2014
6	Zachwatowicz, J., Ochrona zabytków w Polsce, Polonia, Warszawa, 1965
7	Zachwatowicz Jan; O polskiej szkole odbudowy i konserwacji zabytków; w: Ochrona Zabytków 1981

Student workload	
Student activity form	**Average number of hours to complete the activity**
Contact hours with the lecturer, including:	**60**
Participation in lectures	30
Participation in design classes	30
Student self-study, including:	**40**
Preparation for the lecture credit	10
Independent project execution	30
Total student workload	**100**
Total ECTS credits for the module/subject:	**4**

Learning outcomes matrix					
Symbol of the learning outcome for the course	**Reference of a particular learning outcome to outcomes defined for the field of study together with the degree of correlation**	**Course objectives**	**Course content**	**Teaching methods**	**Methods of assessment**

EK 1	A2A_W02 + A2A_W15 +	C1, C2	W2, W4, W5, W6, W7, W8, W9	1	O1
EK 2	A2A_W06 +++ A2A_W20 +	C1, C2	W1, W2, W3	1	O1
EK 3	A2A_W02 +++ A2A_W06 ++ A2A_W15 +++	C1, C2	W1, W2, W4, W5, W6, W7, W8, W9	1	O1
EK 4	A2A_U02 ++ A2A_U03 +++ A2A_U06 +++	C3, C4	P1	2	O2, O3
EK 5	A2A_U02 +++ A2A_U07 +	C3, C4	P1	2	O2, O3
EK 6	A2A_K03 ++	C1, C2, C3, C4	W2, W3, P1	1, 2	O1, O2, O3

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Organizational unit:	Department of Monument Conservation

Course syllabus
Field of study: Architecture
Second-cycle study

Course:	Specialised arch. design (module 1 - architectural design in historic buildings)
Type of course:	Course from group A.1.
Code of course:	IIA.1.3.a.
Year:	II
Semester:	III
Mode of study:	Full-time
Form of classes and number of contact hours per semester:	60
Lecture	30
Classes	-
Laboratory	-
Project	30
Number of ECTS credits:	4
Form of assessment:	Lecture - exam, project - credit
Language of instruction:	Polish

Course objectives	
C1	Acquiring knowledge in the field of adaptation and / or expansion of a historic building
C2	Acquiring the ability to creatively look at the form, function and structure of a building in a spatial and cultural context, taking into account the historical value of the building
C3	Acquiring the ability to create a functional program for an existing facility with simultaneous functional integration with the existing surroundings

Preliminary requirements in terms of knowledge, skills and other competencies	
1	Knowledge of conservation principles and related issues from the point of view of monument protection
2	Having basic skills in architectural design
3	Possessing knowledge about the construction of buildings as well as building materials and technologies of historical and traditional construction

Learning outcomes	
	In terms of knowledge:
EK 1	Knows and understands advanced issues related to architecture and urban planning useful for designing architectural objects and urban complexes in the social and cultural context, natural, historical, economic, legal and other non-technical determinants of engineering activity, integrating the knowledge acquired during studies

EK 2	Knows advanced analysis methods, tools, techniques and materials necessary for preparation of design concepts in an interdisciplinary environment, with with particular emphasis on inter-branch cooperation
	In terms of skills:
EK 3	Is able to develop a conservation design concept for transforming an architectural and urban structure with cultural values, taking into account the protection of these values and appropriate methods and techniques
EK 4	Can think creatively and act, taking into account the complex and multi-faceted conditions of design activity, as well as express his own artistic concepts in architectural and urban design
	In terms of social competence:
EK 5	Is ready to effectively use imagination, intuition, creative attitude and independent thinking to solve complex design problems

Course content	
Form of classes – lecture	
	Course content
W1	Adaptation of architectural monuments to contemporary functions
W2	Construction problems occurring in the adaptation of architectural monuments
W3	Characteristics of optimal intervention for the needs of new functions
W4	Contemporary trends and trends in the adaptation of historic buildings
W5	Constructing the utility program of an object with a complex function - integrating the object with its surroundings
W6	Non-invasive methods of modernization and interior adaptation
W7	Good and bad practices in the adaptation of historic buildings
Form of classes – Project	
	Course content
P1	Project for the reconstruction and / or extension of an immovable monument as a result of adaptation to a new function, due to conservation conditions, to the extent and form compliant with the provisions of the Protection Act sights

Metody dydaktyczne	
1	Lecture with the use of multimedia presentations containing theoretical content and sample solutions
2	Team project

Methods and criteria of assessment

Symbol of the assessment method	Description of the assessment method	Passing threshold
O1	Written exam of the lecture content	60%
O2	Degree of advancement and correctness of project implementation (correction)	70%
O3	Implementation of the project	——

Required reading	
1	Ustawa o ochronie zabytków i opiece nad zabytkami, Dz.U. nr 162 z 17.09.2003, poz.1568, 2003
2	Karta Wenecka, Ochrona Zabytków, 1974, 3
Supplementary reading	
1	Adaptacja obiektów zabytkowych do współczesnych funkcji użytkowych, [red:] Szmygin B., Lubelskie Towarzystwo Naukowe, Politechnika Lubelska, Polski Komitet Narodowy ICOMOS, Warszawa-Lublin, 2009
2	Tajchman J., Standardy w zakresie projektowania, realizacji i nadzorów prac konserwatorskich dotyczących zabytków architektury i budownictwa, Narodowy Instytut Dziedzictwa, Warszawa, 2014
3	Współczesne problemy teorii konserwatorskiej w Polsce, [red:] Szmygin B., Międzynarodowa Rada Ochrony Zabytków ICOMOS, Politechnika Lubelska, 2008

Student workload	
Student activity form	**Average number of hours to complete the activity**
Contact hours with the lecturer, including:	**60**
Participation in lectures	30
Participation in design classes	30
Student self-study, including:	**40**
Preparation for the lecture credit	10
Independent project execution	30
Total student workload	**100**
Total ECTS credits for the module/subject:	**4**

Learning outcomes matrix					
Symbol of the learning outcome for the course	**Reference of a particular learning outcome to outcomes defined for the field of study together with the degree of correlation**	**Course objectives**	**Course content**	**Teaching methods**	**Methods of assessment**
EK 1	A2A_W02 ++	C1	W1, W2, W3, W4, W5, W7	1	O1
EK 2	A2A_W06 +++ A2A_W15 ++	C1	W1, W2, W6	1	O1
EK 3	A2A_U02 ++	C2, C3	P1	2	O2, O3

	A2A_U03 +++ A2A_U06 +++				
EK 4	A2A_U02 ++ A2A_U03 ++	C2, C3	P1	2	O2, O3
EK 5	A2A_K03 ++	C1, C2, C3	W1, W2, W3, W4, W5, W6, W7, P1	1, 2	O1, O2, O3

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Organizational unit:	Department of Monument Conservation

Course syllabus
Field of study: Architecture
Second-cycle study

Course:	Specialized architectural design (module 2) - designing public utility facilities
Type of course:	Course from group A.1.
Code of course:	IIA.1.3.b.
Year:	I
Semester:	II
Mode of study:	Full-time
Form of classes and number of contact hours per semester:	60
Lecture	30
Classes	-
Laboratory	-
Project	30
Number of ECTS credits:	4
Form of assessment:	Lecture - credit, project - credit
Language of instruction:	Polish

Course objectives	
C1	Developing the skills acquired during first-cycle studies in architectural design
C2	Acquisition of skills related to the design of complex objects with high complexity of conditions (functional, structural, spatial, other)
C3	Continuation of designing public utility buildings conducted in advanced design classes

Preliminary requirements in terms of knowledge, skills and other competencies	
1	Ability to use freehand drawing as well as plastic and computer techniques
2	Skill related to the design of public and multi-functional facilities in an open landscape or urban environment
3	Knowledge of building materials, general construction and structure of designed objects
4	Understanding the role of the architect and the need for cooperation between the designer and representatives of individual industries in the preparation of comprehensive project documentation

Learning outcomes	
	In terms of knowledge:
EK 1	Knows and understands architectural design with various levels of complexity,from simple sentences to objects with a complex function and a complicated context, in particular public utilities and their complexes of various scale and complexity in an open landscape or urban environment

EK 2	Understands advanced analysis methods, technical tools and materials necessary to prepare a concept in an interdisciplinary environment, with particular emphasis on inter-branch cooperation
	In terms of skills:
EK 3	Is able to integrate information obtained from various sources, make their interpretation and critical, detailed analysis and draw conclusions from them, as well as formulate and justify opinions and demonstrate their relationship with the design process, based on the available scientific achievements in the discipline
EK 4	Can communicate using various techniques of tools in a professional and interdisciplinary environment in the scope appropriate for architectural and urban design and spatial planning
	In terms of social competence:
EK 5	Is ready to effectively use imagination, intuition, creative attitude and independent thinking to solve complex design problems
EK 6	Is ready to make public appearances and presentations
EK 7	Is ready to take the role of a coordinator of activities in the project process, manage work in a team and use interpersonal skills, comply with the rules of working in a team and take responsibility for joint tasks and projects

Course content	
Form of classes – lecture	
	Course content
W1	Presentation of selected examples of projects related to individual groups of project topics
W2	Presentation of case studies on projects with high complexity
W3	Using new technologies to design and construct architectural objects (e.g. high-tech architecture)
W4	Explanation of the concept of "smart architecture" in the design of public buildings, as the ability to combine: construction, installation and adapting them to the requirements of modern times
Form of classes - project	
	Course content
P1	Pre-design stage: selection of a plot for a specific function or selection of a function or a set of functions for a specific plot, development of a utility program, analysis of conditions, field studies, urban analyzes
P2	Designing public utility buildings with complex conditions, large spans and significant environmental impact

Teaching methods	
1	Lecture with multimedia presentation, seminar lecture
2	Project

Methods and criteria of assessment		
Symbol of the assessment method	**Description of the assessment method**	**Passing threshold**

O1	Written credit for the lecture	60%
O2	Implementation of the project	——
O3	Defense of the project	60%

Required reading	
1	Alexander C., Język wzorców, Gdańskie Wydawnictwo Psychologiczne, Gdańsk 2008
2	Gregory R., Key Contemporary Buildings, Plans, Sections and Elevations, Cdr Edition 2008
3	Weston R., Key Buildings of the 20th Century, Plans, Sections and Elevations W. W. Norton & Company 2010
Supplementary reading	
1	Bródka J., (red.) Przekrycia strukturalne. Arkady 1985
2	Bobel J., Frey S., Współczesne konstrukcje dachowe. Wydawnictwo Informacji Zawodowej WEKA.(vol, 1 i 2) Warszawa 2000
3	The Phaidon Atlas of the Contemporary World Architecture, Phaidon Press 2011
4	Mielczarek Z., Nowoczesne konstrukcje w budownictwie ogólnym, Arkady, Warszawa 2001

Student workload	
Student activity form	**Average number of hours needed to complete the activity**
Contact hours with the lecturer, including:	**60**
Participation in lectures	30
Participation in design classes	30
Student self-study, including:	**40**
Preparation for the classes	5
Preparation of a semester project	35
Total student workload	**100**
Total ECTS credits for the module/subject:	4

Learning outcomes matrix					
Symbol of the learning outcome for the course	**Reference of a particular learning outcome to outcomes defined for the field of study together with the degree of correlation**	**Course objectives**	**Course content**	**Teaching methods**	**Methods of assessment**
EK 1	A2A_W04 +++ A2A_W05 +++ A2A_W06 +++ A2A_W11 ++ A2A_W19 +++	C1, C2, C3	W1, W2, W3, W4	1	O1
EK 2	A2A_W04 +++ A2A_W19 +++ A2A_W20 +++	C2, C3	W1, W2, W3, W4	1	O1
EK 3	A2A_U02 +++ A2A_U03 +++ A2A_U11 ++	C1, C2, C3	P1, P2	2	O2, O3

	A2A_U12 +++				
EK 4	A2A_U02 +++ A2A_U03 +++ A2A_U11 +++	C2, C3	P1, P2	2	O2, O3
EK 5	A2A_K01 ++ A2A_K02 ++ A2A_K03 +++	C1, C2, C3	W1, W2, P1, P2	1, 2	O2, O3
EK 6	A2A_K01 ++ A2A_K03 ++	C2, C3	W1, W2, P1, P2	1, 2	O2, O3
EK 7	A2A_K03 ++ A2A_K04 ++	C2, C3	W1, W2, P1, P2	1, 2	O2, O3

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Organizational unit:	Department of Contemporary Architecture

Course syllabus
Field of study: Architecture
Second-cycle study

Course:	Specialized architectural design (module 2 - designing public utility facilities)
Type of course:	Course from group A.1.
Code of course:	IIA.1.3.b.
Year:	II
Semester:	III
Mode of study:	Full-time
Form of classes and number of contact hours per semester:	60
Lecture	30
Classes	-
Laboratory	-
Project	30
Number of ECTS credits:	4
Form of assessment:	Lecture - exam, project – credit
Language of instruction:	Polish

Course objectives	
C1	Providing graduates with the knowledge of the role of exhibition centers in the city tissue and their participation in the competitiveness of regions. History of exhibition development, principles of operation and design of exhibition centers
C2	Presentation of outstanding examples of exhibition centers and cultural centers promoting the history of exhibition cities
C3	Acquiring by the graduate the skills and competences in the field of designing public facilities (nodal places in the city) and understanding the mutual relations between the facility and its surroundings
C4	Acquiring by the graduate the ability to perform an architectural design in accordance with the technical, utility, aesthetic and cultural context requirements. Mega structures in the city, region

Preliminary requirements in terms of knowledge, skills and other competencies	
1	Has extended knowledge in the field of architectural, urban and conservation design as well as spatial planning
2	Ability to use freehand drawing as well as plastic and computer techniques
3	Knowledge in the field of construction and design theory obtained at the first degree of studies

Learning outcomes	
	In terms of knowledge:
EK 1	Has extended knowledge in the field of architectural design, in particular utility buildings, nodal places in the city and cubature complexes promoting the city, region, including exhibition centers and cultural centers

EK 2	Knows the rules of solving functional, utility and construction problems in objects with functionally complex (multifunctional) units to the extent that ensures the safety and comfort of using the objects, including for people with disabilities
EK 3	Knows and understands the principles of shaping the space of cities and regions (including air, water, green and communication corridors) and the importance of nodal places in cities and regions (including exhibition centers) and regional offices
	In terms of skills:
EK 4	Can design a public utility building (complex of buildings) - solve the function, structure, has the ability to creatively shape forms, can design an effective body when looking for inspiration. Can assess the necessary revitalization of a utility facility and its transformation for the needs of the city and region (including an exhibition center and marketing promotion centers)
EK 5	Can use information and communication techniques, as well as modern parametric methods for the implementation of architectural projects of various levels of difficulty (including mega-structures and complex centers promoting the city and region)
EK 6	Is able to integrate knowledge from various fields of science (theory of architecture and urban planning, fine arts, technical sciences and humanities) in solving design tasks
	In terms of social competence:
EK 7	Is aware of the importance and understands the technical aspects and effects of engineering activities, as well as the role of exhibition centers, cultural centers, mega-regional structures, in cities, regions and conurbations
EK 8	Is aware of the need to improve professional and personal competences

Course content	
Form of classes – lecture	
	Course content
W1	History of exhibition development. Presentation of the principles of operation of exhibition centers, solutions of functions. EXPO exhibitions
W2	Exhibition and congress centers in a distributed system (examples), Exhibition and congress centers in a pavilion system (examples)
W3	Exhibition and congress centers - megastructures, systems for building exhibition structures. Discussion of the role of exhibition centers in the city structure, the benefits of a city having its own center
W4	) Selected issues concerning design elements of public buildings, Types of buildings - purpose, function (example objects)
W5	Museum objects. Objects of education and upbringing. Office buildings. Banks. Nodal centers of cities - Cultural Centers, Theaters, Concert Halls, Industrial buildings. Sports and recreational facilities (Swimming pools, multifunctional sports complexes, Integration meeting centers)
W6	The height of the buildings. Rules for the location of buildings, local plan guidelines. Natural lighting of the rooms of the building. Insolation, ventilation / aeration analyzes. Access roads, parking lots and parking rules
W7	Utilities, utilities necessary, media connections. Fire safety of buildings, zoning in multifunctional complexes, escape routes
Form of classes - project	
	Course content

P1	Pre-design stage; conditions analysis, field studies, evaluation of the necessary media, background maps, pre-design sketches
P2	Design of a utility building, a complex of public buildings (proposed function - complex (office, hotel, cultural - concert halls, opera halls, concert halls, multiplex cinemas, communication (bus, railway, transfer points), integration (meeting center, dialogue center, religious, multi-functionality of megastructure complexes), river (yacht and canoe harbors, footbridges connecting the city structure, road (at or above expressways)

Teaching methods	
1	Conventional lecture
2	Conversation lecture
3	Independent semester project or in a team of 2

Methods and criteria of assessment		
Symbol of the assessment method	**Description of the assessment method**	**Passing threshold**
O1	Written exam	51%
O2	Preparation of an outline concerning the consolidation of knowledge	___
O3	Implementation of the project	___
O4	Defense of the project	Formative assessment (with no credit threshold)

Required reading	
1	Rozporządzenie Ministra Infrastruktury z dnia 12 kwietnia 2002 r. w sprawie warun- ków technicznych, jakim powinny odpowiadać budynku i ich usytuowanie (Dz. U. z dnia 15 czerwca 2002 r. (Dz.U.2019.0.1065)
2	Rozporządzenie Ministra Pracy i Polityki Socjalnej w sprawie ogólnych przepisów bezpieczeństwa i higieny pracy, tekst jednolity Dz. U. 2003 nr 169 poz. 1650, z późniejszymi zmianami
3	Ustawa z dnia 7 lipca 1994 r. Prawo Budowlane (tekst jednolity Dz. U. nr 156 z 2006 r. poz. 1118 z późniejszymi zmianami)
4	Wrana J. Wystawiennictwo – strukturalne ogniwo rozwoju miasta, Oficyna Saska 2002
5	Kysiak M., Architektura pawilonów wystawowych. Funkcja. Forma. Konstrukcja. Oficyna Wydawnicza Politechniki Warszawskiej, Warszaw 1998
6	Wrana J., Rola i znaczenie architektury w procesie scalania struktury przestrzennej miasta na przykładzie Lublina, monografia Politechnika Lubelska, Lublin 2014
7	Gössel P., Lauthäuser G., ARCHITEKTURA XX wieku, TACHEN/TMC Art B. wyda- nie w języku polskim, redakcja i koordynacja prac Edyta Tomczyk , TOMI i II
8	Gehl J. & Gemzøe Lars New City Spaces, The Danish Architectural Press, Copenhagen 2006
9	Jencks Ch., Architektura późnego modernizmu i inne eseje ARKADY Warszawa, 1989
Supplementary reading	
1	PIANO- Renzo Piano Building Workshop 1966 to today, TASCHEN, Hong Kong, Köln, London, Los Angeles, Madrid, Paris, Tokyo, New York USA, Köln 2008
2	The complete ZAHA HADID, Thames & Hudson Ltd London 2017

3	Jodidio P., CALATRAVA 1951 Architekt, Inżynier, Artysta, TASCHEN/TMC Art. Köln 2008
4	Claire Zimmrman MIES VAN DER ROHE, 1886-1969. The Structure of Space, TASCHEN Köln 2006
5	Rosa J., KAHN 1901 – 1974, Enlightened space, TACHEN Köln 2006
6	Serraino P., SAARINEN 1910 – 1961, A Structural Expressionist, TACHE Köln 2006
7	Gumińska A., EXPO 2015 oraz nowe osiedla w Mediolanie w aspekcie wpływu technologii na poprawę życia w śródmieściach wielkich miasta, Wydawnictwo Architecturae et Artibus , Quarterly, volume 8 2016
8	Pawłowski A., Rosińska Z., Przestrzenne i płaskie przekrycia strukturalne dużych rozpiętości. Kształtowanie i optymalizacja, Praca statutowa, Wydz. Architektury PW, maszynopis Warszawa 1996
9	Siegel C., Formy structuralne w nowoczesnej architekturze, Arkady, Warszaw 1964
10	Borusewicz W., Konstrukcje budowlane dla architektów, Arkady, Warszawa1978
11	1001 BUILDINGS you must see befpre you die. The world's finest Architectural Master Pieces, General Editor Mark Irwing UNIVERSEUSA 2007
12	The Phaidon Atlas of contemporary World Architecture, The Phaidon Atlas of 21 Century Architectures, Phaidon

Student workload	
Student activity form	**Average number of hours needed to complete the activity**
Contact hours with the lecturer, including:	**60**
Participation in lectures	30
Participation in design classes	30
Student self-study, including:	**40**
Preparation for the exam	5
Preparation of an outline of the acquired knowledge at the end of the semester	10
Implementation of the project	25
Total student workload	**100**
Total ECTS credits for the module/subject:	**4**

Learning outcomes matrix					
Symbol of the learning outcome for the course	**Reference of a particular learning outcome to outcomes defined for the field of study together with the degree of correlation**	**Course objectives**	**Course content**	**Teaching methods**	**Methods of assessment**
EK 1	A2A_W02 +++ A2A_W03 +++ A2A_W04 +++ A2A_W05 +++ A2A_W06 +++	C1	W1, W2, W3, W5	1, 2	O1, O2, O3
EK 2	A2A_W02 +++ A2A_W06 +++	C1, C2	W2, W5, W6, W7	1, 2	O1, O2, O3

	A2A_W10 +++ A2A_W18 +++ A2A_W19 +++				
EK 3	A2A_W14 ++	C1, C2	W1, W2, W3	1, 2	O1, O2
EK 4	A2A_U09 ++	C1, C2	P1, P2	1, 2	O1, O2
EK 5	A2A_U01 +++ A2A_U02 +++ A2A_U10 ++	C1, C2	P1, P2	3	O3, O4
EK 6	A2A_U01 +++ A2A_U02 ++ A2A_U10 +++	C1, C2	P1, P2	3	O3, O4
EK 7	A2A_K01 +++ A2A_K07 ++	C3, C4	W4, W5, W6, W7, P1, P2	1, 2, 3	O1, O2, O3, O4
EK 8	A2A_K01 +++ A2A_K04 +++	C3, C4	W3, W5, W6, W7, P1, P2	1, 2, 3	O1, O2, O3, O4

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Organizational unit:	Department of Contemporary Architecture

Course syllabus
Field of study: Architecture
Second-cycle study

Course:	Specialized architectural design (module 3) – Urban space and residential environment design
Type of course:	Course from group A.1.
Code of course:	IIA.1.3.c.
Year:	I
Semester:	II
Mode of study:	Full-time
Form of classes and number of contact hours per semester:	60
Lecture	30
Classes	-
Laboratory	-
Project	30
Number of ECTS credits:	4
Form of assessment:	Lecture - credit, project - credit
Language of instruction:	Polish

Course objectives	
C1	Getting to know the detailed issues related to the design of urban complexes with mixed functions (service and housing), as a supplement or transformation of the existing urban tissue in the context of social, cultural, natural, historical, economic, legal and non-technical conditions of engineering activities
C2	Getting to know the specifics of designing architectural objects with a complex function in a complex context, using advanced pre-design analysis methods, indicating the directions for performing critical analyses in the field of valorization of the land development conditions and buildings, in order to correctly formulate conclusions for urban and architectural design.

Preliminary requirements in terms of knowledge, skills and other competencies	
1	Can use the legal acts in force in the field of urban and architectural design and make a critical analysis of the basic conditions
2	Can design simple architectural objects
3	Can present a design concept in a communicative way

Learning outcomes	
	In terms of knowledge:
EK 1	Knows the methods of pre-design analyzes
EK 2	Knows and understands the principles of designing buildings with a high degree of complexity, with particular emphasis on the residential function corresponding to contemporary social needs
	In terms of skills:
EK 3	Can make a critical analysis of the conditions of the existing land development and

	buildings, formulate design guidelines
EK 4	Can design buildings with complex functions, taking into account the existing context, creating and transforming the space so as to give it new values - in accordance with the given program, taking into account the requirements and needs of all users, spatial and cultural context, technical and non-technical aspects
EK 5	Can design an architectural object with complex functions in accordance with a given program, taking into account the requirements and needs of all users, spatial and cultural context, technical and non-technical aspects
	In terms of social competence:
EK 6	Is ready to effectively use imagination, intuition, creative attitude and independent thinking to solve complex design problems
EK 7	Is ready to make public appearances and presentations

Course content	
Form of classes – lecture	
	Course content
W1	Problems of contemporary cities and their solutions. Various faces of urban revitalization. Spatial shaping of intensively urbanized areas
W2	Surprising, unusual and original - a case study of contemporary housing
W3	Designing service objects with complex functions - rules and examples
W4	Legal conditions for designing urban areas and residential and service development complexes
Form of classes - project	
	Course content
P1	Development of a project of a residential development complex with services as a supplement to the existing urban fabric. A project containing solutions on an urban and architectural scale for individual facilities
P2	Preparation of assumptions for the functional and utility programs of individual facilities

Teaching methods	
1	Problem lecture and seminar lecture with the use of multimedia techniques
2	Educational trip
3	Independent project implementation

Methods and criteria of assessment		
Symbol of the assessment method	**Description of the assessment method**	**Passing threshold**
O1	Lecture - written test pass	60%
O2	Project - advancement level corrections and final submission with an oral presentation	——
O3	Defense of the project	60%

Required reading	
1	Chmielewski J. M., Modernizacja osiedli mieszkaniowych, Warszawa 2001

2	Czasopisma: Archivolta, Architektura - Murator, Architektura & Biznes - bieżące numery
3	Mc Leod V., Detail in contemporary residential architecture, London, laurence King Publishing, 2007
4	Współczesne miejskie środowisko zamieszkania: problemy przestrzenne i funkcjonalne, red. J. Gyurkovich, Kraków, Wydawnictwo Politechniki Krakowskiej 2007
Supplementary reading	
1	David Adjaye houses: recycling, reconfiguring, rebuilding, ed. Peter Allison, London, Thames & Hudson, 2006
2	French H., New urban housing, Laurence King 2006
3	Friedman A., Smart homes and communities: foresting sustainable architecture, Mulgrave: Images Publishing, 2018
4	Kłosek-Kozłowska D., Ochrona wartości kulturowych miast a urbanistyka, Warszawa, Oficyna Wydawnicza Politechniki Warszawskiej 2007
5	Michalak H., Kształtowanie konstrukcyjno-przestrzenne garaży podziemnych na terenach silnie zurbanizowanych, Warszawa, Oficyna Wydawnicza Politechniki Warszawskiej 2006
6	Sobierajowicz P., Kształtowanie zabudowy miejskiej o zwiększonej efektywności ekologicznej i energetycznej: architektura rozwój, społeczeństwo, ekologia, Zielona Góra 2013
7	Transformer: reuse, renewal and renovation in contemporary architecture, red. Wang Shaoqianq, Bewrkley, Ginko Press, 2010
8	Uffeln, Ch. van, residential architecture for senior citizens, Braun Publishing, 2012
9	Zielonk-Jung K., Kształtowanie przestrzenne architektury ekologicznej w strukturze miasta, Warszawa, Oficyna Wydawnicza Politechniki Warszawskiej 2013

Student workload	
Student activity form	**Average number of hours needed to complete the activity**
Contact hours with the lecturer, including	**60**
Participation in lectures	30
Participation in projects	30
Student self-study, including:	**40**
Preparation for the lecture credit	10
Project development	30
Total student workload	**100**
Total ECTS credits for the subject:	**4**

Learning outcomes matrix					
Symbol of the learning outcome for the course	**Reference of a particular learning outcome to outcomes defined for the field of study together with the degree of correlation**	**Course objectives**	**Course content**	**Teaching methods**	**Methods of assessment**
EK 1	A1A_W02 +++ A1A_W04 ++ A1A_W12 +++	O1, O2	W1, P1	1, 2	O1, O2

	A1A_W14 +++				
EK 2	A1A_W04 +++ A1A_W05 +++ A1A_W16 +++ A1A_W14 ++ A1A_W15 +++	O1, O2	W2, W3, W4	1, 2	O1, O2
EK 3	A1A_U01 +++ A1A_U05 ++	O1, O2	P1	2, 3	O2, O3
EK 4	A1A_U03 +++ A1A_U04 ++ A1A_U06 ++ A1A_U07 +++	O1, O2	P1, P2,	3	O2, O3
EK 5	A1A_U03 +++ A1A_U06 +++ A1A_U07 +++	O1, O2	P1, P2	3	O2, O3
EK 6	A1A_K01 +++	O1, O2	P1, P2	3	O2, O3
EK 7	A1A_K09 +++	O1, O2	P1	3	O2, O3

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Organizational unit:	Department of Architecture, Urban Planning and Spatial Planning

Course syllabus
Field of study: Architecture
Second-cycle study

Course:	Specialized architectural design (module 3) - Designing urban space and living environment
Type of course:	Course from group A.1.
Code of course:	IIA.1.3.c.
Year:	II
Semester:	III
Mode of study:	Full-time
Form of classes and number of contact hours per semester:	60
Lecture	30
Classes	-
Laboratory	-
Project	30
Number of ECTS credits:	4
Form of assessment:	Lecture – exam, Project – credit
Language of instruction:	Polish

Course objectives	
C1	Getting to know the detailed issues related to the design of urban complexes with complex functions, as a supplement or transformation of the existing urban tissue in the context of social, cultural, natural, historical, economic, legal and other non-technical conditions of engineering activity
C2	Getting to know the specifics of designing architectural objects with a complex function or large-scale, in a complex context, using advanced pre-design analysis methods, indicating the directions of critical analyzes in the field of land development and building valorisation, in order to correctly formulate conclusions for urban and architectural design.

Preliminary requirements in terms of knowledge, skills and other competencies	
1	Can use the legal acts in force in the field of urban and architectural design and make a critical analysis of the basic conditions
2	Can design simple architectural objects
3	Can present a design concept in a communicative way

Learning outcomes	
	In terms of knowledge:
EK 1	Knows advanced methods of pre-design analysis
EK 2	Knows and understands the principles of designing highly complex architectural objects
	In terms of skills:
EK 3	is able to make a critical analysis of conditions, including the valorization of land development and building conditions, formulate conclusions for design and spatial planning, forecast transformation processes

EK 4	Can design an object with complex functions, fitting into the existing context, creating and transforming the space so as to give it new values - in accordance with the set or adopted programme, taking into account the requirements and needs of all users, spatial and cultural context, technical and non-technical
EK 5	Is able to apply modern construction and material solutions for the adopted design assumptions and to solve the own architectural detail
	In terms of social competence:
EK 6	Is willing to use imagination, intuition, creative attitude and independent thinking to solve complex design problems
EK 7	Is ready to make public appearances and presentations

Course content	
Form of classes – lecture	
	Course content
W1	Architecture of public utility buildings and commercial services. Functional and spatial programmes and design issues
W2	Case study of contemporary service and public facilities in the context of functional and spatial solutions, architectural ideas and construction techniques
W3	Designing service objects with complex functions - rules and examples
W4	Contemporary architectural detail - presentation of examples
Form of classes – project	
	Course content
P1	Development of a design for a complex of service or public buildings as a supplement to the existing urban fabric. A project containing solutions on an urban and architectural scale for individual facilities as well as individually designed details
P2	Contemporary architectural detail - presentation of examples

Teaching methods	
1	Problem lecture and seminar lecture with the use of multimedia techniques
2	Educational trip
3	Independent project implementation

Methods and criteria of assessment		
Symbol of the assessment method	**Description of the assessment method**	**Passing threshold**
O1	Lecture – written exam	60%
O2	Project – advancement level corrections and final submission with an oral presentation	___
O3	Defense of the project	60%

Required reading	
1	Architecture in context: contemporary design solutions based on environmental, social and cultural identities: contemporary architecture in detail, red. The Plan, Barceolona, Promoress, 2018
2	Czasopisma: Archivolta, Architektura - Murator, Architektura & Biznes - bieżące numery

3	Offsite Architecture: constructing the future, ed. J. M. Minguet, barcelona, 2016
4	Sustainable architecture: contemporary architecture in detail, red. The Plan, Barceolona, Promoress, 2017
Suppllementary reading	
1	Czarnecki J. S., Architektura korporacji: analiza teoretyczna i metodologiczna, Łódź, Wyd. Uniwersytetu Łódzkiego 2011
2	David Adjaye houses: recycling, reconfiguring, rebuilding, ed. Peter Allison, London, Thames & Hudson, 2006
3	French H., New urban housing, Laurence King 2006
4	Friedman A., Smart homes and communities: foresting sustainable architecture, Mulgrave: Images Publishing, 2018
5	Kłosek-Kozłowska D., Ochrona wartości kulturowych miast a urbanistyka, Warszawa, Oficyna Wydawnicza Politechniki Warszawskiej 2007
6	Michalak H., Kształtowanie konstrukcyjno-przestrzenne garaży podziemnych na terenach silnie zurbanizowanych, Warszawa, Oficyna Wydawnicza Politechniki Warszawskiej 2006
7	Pallister J., Sacred spaces: contemporary religious architecture, London, Phaidon Press Limited, 2015
8	Sobierajowicz P., Kształtowanie zabudowy miejskiej o zwiększonej efektywności ekologicznej i energetycznej: architektura rozwój, społeczeństwo, ekologia, Zielona Góra 2013

Student workload	
Student activity form	**Average number of hours needed to complete the activity**
Contact hours with the lecturer, including:	**60**
Participation in lectures	30
Participation in design classes	30
Student self-study, including:	**40**
Preparation for the lecture exam	10
Development of the project	30
Total student workload	**100**
Total ECTS credits for the subject:	**4**

Learning outcomes matrix					
Symbol of the learning outcome for the course	**Reference of a particular learning outcome to outcomes defined for the field of study together with the degree of correlation**	**Course objectives**	**Course content**	**Teaching methods**	**Methods of assessment**
EK 1	A1A_W02 +++ A1A_W04 ++ A1A_W12 ++ A1A_W14 +++	C1, C2	W1	1	O1
EK 2	A1A_W04 +++ +++	C1, C2	W2, W3, W4	1	O1

	A1A_W05 +++ A1A_W16 ++ A1A_W14 +++ A1A_W15				
EK 3	A1A_U01 +++ A1A_U05 ++	C1, C2	P1	2, 3	O2, O3
EK 4	A1A_U03 +++ A1A_U04 ++ A1A_U06 ++ A1A_U07 +++	C1, C2	P1, P2, W4	3	O1, O2, O3
EK 5	A1A_U03 +++ A1A_U06 +++ A1A_U07 +++	C1, C2	P1, P2, W4	3	O1, O2, O3
EK 6	A1A_K01 +++	C1, C2	P1, P2	3	O2, O3
EK 7	A1A_K09 +++	C1, C2	P1	3	O2, O3

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Organizational unit:	Department of Architecture, Urban Planning and Spatial Planning

Course syllabus
Field of study: Architecture
Second-cycle study

Course:	Advanced urban planning design
Type of course:	Course from group A.1.
Code of course:	IIA.1.4.
Year:	I
Semester:	II
Mode of study:	Full-time
Form of classes and number of contact hours per semester:	45
Lecture	15
Classes	-
Laboratory	-
Project	30
Number of ECTS credits:	3
Form of assessment:	Lecture - credit, project - credit
Language of instruction:	Polish

Course objectives	
C1	Acquiring knowledge about the complex social conditions of urban planning and the role of the urban planner and architect in the social process of creating space in contemporary cities
C2	Gaining knowledge of the principles of urban design and development planning
C3	Acquiring skills in independent designing of urban concepts on the scale of a residential quarter, multifunctional neighborhood and a complete city district following the rules
C4	Gaining the ability to independently and freely use patterns to solve urban planning problems

Preliminary requirements in terms of knowledge, skills and other competencies	
1	Knowledge and skills in recognizing, interpreting and designing basic spatial relationships in the city
2	Ability to read and write space in the form of 2 or 3 dimensional models and graphical representations of these models at urban scales: 1:500, 1:1000, 1:5000, 1:10000
3	Skill in using graphic tools (manual digital) to record and present ideas and forms of space
4	Knowledge in architectural design of the major internal structures of buildings and their external dimensions
5	Basic knowledge of the history of urban planning from antiquity until about 1900
Learning outcomes	
	In terms of knowledge:
EK 1	Has knowledge of the complexity and cultural role of the social process of producing urban forms. Understands and is able to interpret the aims and ways of shaping

	sustainable forms of the urban environment taking into account various ways of urban landscape composition
EK 2	Has knowledge of the basic principles that are currently considered to shape the spatial environment for good urban living: preserving values, connecting people through a network of streets with a preference for pedestrian movement, connecting places to live and work, connecting, programming and building attractive places to live
EK 3	Has knowledge of the spatial relationships that serve to shape an attractive urban environment: time scales, compactness, public and individual transport including aspects of sunlight, shading and ventilation, the biological environment (various forms of greenery and water)
EK 4	Has knowledge of 9-step design
EK 5	Has knowledge about recognition and conceptual-graphical representation (visualization) and valuation of spatial structures of existing cities and city projects and plans to the extent necessary to determine the conditions of a specific design task
	In terms of skills:
EK 6	Is able to search for, recognize, understand and use exemplary local and universal urban solutions and urban plans and designs
EK 7	Can relate the provisions of the development plan concept to the provisions of the local plan. Can apply in practice the principles and methods used for this purpose
EK 8	Is able to conceptually design high quality residential neighborhoods consisting of quarters of residential development with community and commercial services, jobs and important public buildings in appropriate relationships to the site and community expectations
EK 9	Can produce conceptual drawings of urban design, including: development of quarters, location and arrangement of various streets, squares, parks, in appropriate scales and representations (plan views, sections, diagrams, bird's eye views and human level views)
	In terms of social competence:
EK 10	Is ready to work with his/her individual potential and confront his/her ideas with others, lead discussions and work out common solutions in groups of 2, 4, 6 12, and 24
EK 11	Is prepared to consider all social roles in the process of creating space
EK 12	Is ready to use the potential and competence of the urban planner in the process of planning and designing urban forms for solving spatial conflicts

Course content	
Form of classes – lecture	
	Course content
W1	Why do we need cities? The home and the city. The city as home. Belonging and anonymity. Psychological bases of urban forms. The city as a system of systems. A general theory of the city and the principles of their construction as a social process of shared vision, provision, management and maintenance. Overview of principles: sustaining biological life, cultural continuity, compactness, continuity, networking and prioritization of public and social spaces, concentration and mixing of functions, mixing of qualitative and quantitative standards)

W2	Diversity of sustainable urban environments and their hierarchical order. Using, sustaining and developing the biological environment and cultural heritage
W3	Chaos and order in the city. Principles of order and demarcation. Mixing and demarcation. Nature and culture as sources of order. Me and Us - creating conditions for neighborhood community of living.
W4	Cities as complex structures. Connecting people. Streets as complete multifunctional spaces and their typologies. The walkable city. Public and individual transport.
W5	Combining houses into quarters. Typologies of quarters. Neighborhoods as complete basic units of urban development structure. Presence. Biological and social aspects of habitation.
W6	Tools of the urban planner, general plan and development plans, study and local plans. Arithmetic for the urban planner. Quantity indices and measures in urban planning. Computer programs to assist in urban design and why they do not replace the urban planner
W7	Place theory in urban planning. The city as a network of places. Places and non-places. Principles of creating attractive places in cities
W8	Attractive cities. Beautiful cities - what is the attractiveness and beauty of a city? Order with a touch of chaos: concentrated and visible urban life; Compactness of parts and elements; Open to exploration (orientation) full of surprises and secrets; on a human scale measured by time of effort; local unique character
Form of classes – project	
	Course content
P1	Synthetic characteristics of the city in which the project site is located: - basic data (location, size, demography, administrative function) - history - economy - spatial-functional layout of the city - social infrastructure - transport system of the city - natural and cultural environment Analyses showing the area of the entire city (or in the case when the area is located in a large or big city, its important part) on the background of an aerial photo/orthophotomap
P2	Analysis of currently binding guidelines of the Study of Conditions and Directions for Spatial Development and possibly of the Local Spatial Development Plan
P3	Analysis of the project site and its conditions with its surroundings based on the in situ visit and the documentation made during it
P4	Developing a concept for the spatial development of the area including the setting of relations between its structural components and the concept of the system of public and semi-public spaces in the designed area (projection, sections, schemes illustrating the concept of development and the spatial and functional relations with adjacent areas, working model, mock-up, 3d model - visualizations from the bird's eye view and from the human level, synthetic description of the concept)

Teaching methods	
1	Traditional lectures with the use of multimedia techniques

2	Conversational courses within the scope of lectures
3	Discussions
4	Analysis of the completed projects and discussion about them
5	Analysis and discussion within the whole group of the successive stages of the projects performed by each team
6	Performing in situ analyses presented on charts and/or multimedia presentations and orally in front of the whole group
7	Doing projects in teams

Methods and criteria of assessment		
Symbol of the assessment method	**Description of the assessment method**	**Passing threshold**
O1	Activity during conversational parts of lectures	Formative assessment (no pass/fail threshold)
O2	Written test of the lectures	51%
O3	Activity in project classes	Formative assessment (no pass/fail threshold)
O4	Performing analytical and design tasks for design classes	___
O5	Presentation during class of analytical and design assignments	___
O6	Defence of design tasks	60%

Required reading	
1	Masterplan (koncepcja planu zabudowy) FSO, Warszawa https://architektura.um.warszawa.pl/masterplan-zeran-fso
2	Masterplan (koncepcja planu zabudowy) Aspern-Seestadt, Wiedeń https://www.aspern-seestadt.at/en/business_hub/planning__reality/master_plan
3	Masterplan (koncepcja planu zabudowy) Malmo
Supplementary reading	
1	Jonathan F.P. Rose "Dobrze nastrojone miasto", Kraków 2019
2	Jan Gehl „Miasta dla ludzi”, Kraków 2017
3	Leon Krier „Architektura wspólnoty”, Gdańsk 2011
4	Jane Jacobs „Śmierć i życie wielkich miast ameryki”, Warszawa 2014
5	Christian Norberg Schulz „Bycie przestrzeń architektura”, Warszawa 2000
6	Christopher Alexander i inni ”Język wzorców”, Gdańsk 2008

Student workload	
Student activity form	**Average number of hours needed to complete the activity**
Contact hours with the lecturer, including:	**45**
Lectures	15
Project classes	30
Student self-study, including:	**30**
Preparation of design and analysis tasks	26

Preparing for a credit test	4
Total student workload	**75**
Total ECTS credits for the module/subject:	**3**

Learning outcomes matrix					
Symbol of the learning outcome for the course	**Reference of a particular learning outcome to outcomes defined for the field of study together with the degree of correlation**	**Course objectives**	**Course content**	**Teaching methods**	**Methods of assessment**
EK 1	A2A_W02 ++ A2A_W12 ++ A2A_W14 ++ A2A_W20 ++	C1-C4	W1-9, P1-4	1-7	O1-4
EK 2	A2A_W02 ++ A2A_W12 ++ A2A_W14 ++ A2A_W20 ++	C1-C4	W1-9, P1-4	1-7	O1-4, O6
EK 3	A2A_W02 ++ A2A_W12 ++ A2A_W14 ++ A2A_W20 ++	C1-C4	W1-9, P1-4	1-7	O1-4, O6
EK 4	A2A_W02 ++ A2A_W12 ++ A2A_W14 ++ A2A_W20 ++	C1-C4	W1-9, P1-4	1-7	O1-4, O6
EK 5	A2A_W02 ++ A2A_W12 ++ A2A_W14 ++ A2A_W20 ++	C1-C4	W1-9, P1-4	1-7	O1-4, O6
EK 6	A2A_U01 +++ A2A_U10 ++ A2A_U11 ++ A2A_U13 ++ A2A_U14 ++	C1-C4	P1-4	4-7	O3-6
EK 7	A2A_U01 + A2A_U04 ++ A2A_U08 +++ A2A_U10 ++ A2A_U11 ++ A2A_U13 ++ A2A_U14 ++	C1-C4	P1-4	4-7	O3-6
EK 8	A2A_U01 + A2A_U08 +++ A2A_U10 ++ A2A_U11 ++	C1-C4	P1-4	4-7	O3-6

	A2A_U13 ++ A2A_U14 ++				
EK 9	A2A_U01 + A2A_U08 +++ A2A_U10 ++ A2A_U11 ++ A2A_U13 ++ A2A_U14 ++	C1-C4	P1-4	4-7	O3-6
EK 10	A2A_K03 ++ A2A_K05 ++ A2A_K08 ++ A2A_K09 ++	C1-C4	W1-9, P1-4	1-7	O1-4, O6
EK 11	A2A_K03 ++ A2A_K05 ++ A2A_K08 ++ A2A_K09 ++	C1-C4	W1-9, P1-4	1-7	O1-4, O6
EK 12	A2A_K03 ++ A2A_K05 ++ A2A_K08 ++ A2A_K09 ++	C1-C4	W1-9, P1-4	1-7	O1-4, O6

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Organizational unit:	Department of Architecture and Urban Planning

Course syllabus
Architecture
Second cycle studies

Course:	Sustainable Design
Type of course:	Course from group A.1.
Code of course:	IIA.1.5.
Year:	I
Semester:	II
Mode of study:	Full-time
Form of classes and number of contact hours per semester:	45
Lecture	15
Classes	-
Laboratory	-
Project	30
Number of ECTS credits:	3
Form of assessment:	Lectures – credit, project – credit
Language of instruction:	Polish

Course objectives	
C1	Gaining knowledge of methods and means of implementing ecologically responsible sustainable design in facilities of various types and their surrounding environment
C2	Gaining skills in using information sources, formulating tasks and selecting engineering methods for designing environment-friendly and low-energy buildings
C3	Gaining an understanding of the value of the multi-discipline nature of architectural and urban design and the need to collaborate with other professionals and specialists

Preliminary requirements in terms of knowledge, skills and other competencies	
1	has knowledge and skills in basic architectural, construction and energy-efficient design and in modernization of developed areas with respect for conservation and ecology
2	has basic knowledge on urban design, materials technology, building installation systems, technical infrastructure of cities, roads and streets and construction regulations

Learning outcomes	
	In terms of knowledge:
EK 1	Knows and understands the methods and means of implementing sustainable and responsible design in buildings of various types and in surrounding setting
EK 2	Knows the materials and technologies applied in modern energy-efficient construction
	In terms of skills:
EK 3	Can gather information from literature, databases and other properly selected sources; can do so also in a foreign language considered to be the language of international communication in architecture and urban planning
EK 4	Can assess the usefulness and the feasibility of using modern materials and technologies in environment-friendly design

EK 5	Can apply lessons learned to critically analyze conditions and formulate conclusions for environmentally sustainable design in a complex, interdisciplinary context
	In terms of social competence:
EK **6**	Is ready to design in accordance with the principles of ecological sustainability in architecture and urban planning
EK 7	Is willing to improve professional and personal competencies

Course content	
Form of classes – lecture	
	Course content
W1	Examples of modern solutions allowing to create human friendly living conditions in accordance with the principles of sustainable development
W2	Selection of a project evaluation system for sustainable development on the example of international multi-criteria building analysis
W3	Critical analysis of selected design problems in environmentally sustainable facilities
W4	Selected examples of improving the quality of an environmentally sustainable building
Form of classes – project	
	Course content
P1	Critical assessment of the ecotechnical condition of an inventoried building and selection of repair problems based on MDN/R+MEko template
P2	Development of a solution concept for the adopted MDN/R+MEko with selected detailed solutions

Teaching methods	
1	Conversational lecture with the use of multimedia presentations, educational videos containing theoretical and practical content with the presentation of exemplary solutions
2	Critical analysis of a case study. Individual work on a selected environmentally sustainable facility culminating in a multimedia presentation and discussion on advantages and disadvantages of proposed ecotechnical solutions
3	Discussing problem sets in the sustainable design of green facilities
4	Execution of projects of green facilities for independent development by students
5	Teaching tour

Methods and criteria of assessment		
Symbol of the assessment method	**Description of the assessment method**	**Passing threshold**
O1	Credit for lectures	60%
O2	Implementation of the project	——
O3	Defence of the project	60%

Required reading	
1	Lewandowski W.M.: Proekologiczne odnawialne źródła energii. Wydawnictwa Naukowo-Techniczne WNT 2010
2	Duran S.C.: Ekologiczny dom. Jak go zbudować i zdrowo w nim mieszkać? Arkady 2012
3	Macarena San Martin: Projektowanie. Eko-domy. Solis 2011

4	Laskowski L.: Leksykon podstaw budownictwa niskoenergetycznego. Polcen 2009
5	Wnuk R.: Instalacje w Domu Pasywnym i Energooszczędnym. Przewodnik Budowlany 2007
6	Ostańska A., Taracha K.: Energetyczny audyt miejski, z wykorzystaniem szablonu MDN/R+E, jako instrument planowania oszczędności energetycznej w mieście. Budownictwo i Architektura vol. 9 (2011)
7	Ostanska A., Thermal Imaging for Detection of Defects in Envelopes of Buildings in Use: Qualitative and Quantitative Analysis of Building Energy Performance, Periodica Polytechnica Civil Engineering, May 2018, doi.org/10.3311/PPci.12148
8	Ostańska A., Improving condition of prefab multifamily housing stock: user perspective assessed via direct survey, IOP Conference Series: Materials Science and Engineering, vol. 471, 2019
9	Ostańska A., Improving Living Conditions in Mass Housing of the Prefabrication Era: The User's Point of View, IOP Conference Series: Materials Science and Engineering, vol. 603, 2019
10	Ostańska A., Increasing the energy efficiency of dwelling houses: case study of residential quarter in Upper Silesia, Poland, Budownictwo i Architektura, vol. 18 (1), 2019
11	Ostańska A., Monitoring the resident's needs: input for the pre-construction stage of rehabilitation projects. Przegląd Naukowy Inżynieria i Kształtowanie Środowiska, vol. 28, nr 3, 2019
12	Ostańska A., Wielka płyta: analiza skuteczności podwyższania efektywności energetycznej: termomodernizacja, termografia, wytyczne naprawcze, PWN, Warszawa 2016
13	Ostańska A., Czarnigowska A., Solar collectors in a prefabricated housing estate: lessons learnt after four years of operation. W: Sustainable Built Environment Conference 2016 in Hamburg: Strategies, Stakeholders, Success factors, 7th - 11th March 2016; Conference Proceeding; Hamburg: Karlsruhe Institute of Technology (KIT) ZEBAU - Centre for Energy, Construction, Architecture and the Environment GmbH, Hamburg 2016
14	Grudzińska M., Ostańska A., Życzyńska A., Low energy and passive buildings. Grupa MEDIUM, Warszawa 2017
15	Ostańska A., Programowanie rewitalizacji osiedli mieszkaniowych z zastosowaniem modelu PEARS, PAN KILiW, Warszawa 2018 – w kontekście rozwiązań ekotechnicznych
Supplementary reading	
1	Praca zbiorowa Polskiego Instytutu Budownictwa Pasywnego: Podstawy budownictwa pasywnego. PIBP 2006
2	Skowroński W. i inni: Leksykon architektoniczno-budowlany. Arkady 2008
3	Ostańska A., Model energetycznego audytu miejskiego jako instrument służący efektywnemu oszczędzaniu energii w mieście, Przegląd budowlany, 10, 2014
4	Ustawa o ochronie i kształtowaniu środowiska z dnia 31 stycznia 1980r. oraz ustawa o zmianie ustawy o ochronie i kształtowaniu środowiska oraz o zmianie niektórych ustaw z dnia 29 sierpnia 1997
5	Ustawa o ochronie gruntów rolnych i leśnych z dnia 3 lutego 1995r. oraz ustawa o zmianie ustawy o ochronie gruntów rolnych i leśnych z dnia 22 maja 1997

Student workload	
Student activity form	**Average number of hours needed to complete the activity**

Contact hours with the lecturer, including:	**45**
Lectures	15
Project classes	30
Student self-study, including:	**30**
Studying to obtain credit	10
Project execution	20
Total student workload	**75**
Total ECTS credits for the module/subject:	**3**

Learning outcomes matrix					
Symbol of the learning outcome for the course	**Reference of a particular learning outcome to outcomes defined for the field of study together with the degree of correlation**	**Course objectives**	**Course content**	**Teaching methods**	**Methods of assessment**
EK 1	A2A_W11 ++	C2	W1	1, 2, 3	O1
EK 2	A2A_W19 ++	C2	W1, W2, W3, W4	1, 2, 3	O1
EK 3	A2A_U01 ++	C2	P1, P2	2, 4, 5	O2, O3
EK 4	A2A_U07 +++	C1, C2, C3	P2	2, 4, 5	O2, O3
EK 5	A2A_U13 +++	C1, C2, C3	P1, P2	2, 4, 5	O2, O3
EK 6	A2A_K08 +++	C1, C2, C3	W2, W3, P2	3, 4	O1, O2, O3
EK 7	A2A_K04 ++	C3	P1, P2	4, 5	O2, O3

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Organizational unit:	Department of Architecture and Urban Planning

Course syllabus
Field of study: Architecture
Second-cycle study

Course:	Advanced Universal Design
Type of course:	Course from group A.1.
Code of course:	IIA.1.6.
Year:	II
Semester:	III
Mode of study:	Full-time
Form of classes and number of contact hours per semester:	45
Lecture	15
Classes	-
Laboratory	-
Project	30
Number of ECTS credits:	3
Form of assessment:	Lecture – credit, project – credit
Language of instruction:	Polish

Course objectives	
C1	Expanding knowledge of issues related to designing for the individualized needs of people with disabilities
C2	Ability to effectively and unconventionally use and shape architectural space in a manner that enhances the comfort and safety of users, with adaptation to their individual needs

Preliminary requirements in terms of knowledge, skills and other competencies	
1	Mastering the theoretical material from the lectures on "Ergonomics in Architectural Design" during first and second cycle studies, as well as from the subject "Universal Design"
2	Theoretical knowledge of architectural facilities design acquired during the bachelor's degree program together with the knowledge of specific legal regulations
3	Possessing skills related to the design of facilities with high complexity of conditions, especially in the context of the needs of people with disabilities

Learning outcomes	
	In terms of knowledge:
EK 1	Knows and understands detailed issues concerning architecture and urban planning in terms of solving complex design problems, taking into account the needs of people with disabilities
EK 2	Knows and understands the relationship between humans and architecture and between architecture and its surrounding environment, and the need to adapt architecture to human needs and human scale in universal design
EK 3	Knows and understands the issues related to architecture and urban planning

	in the context of multidisciplinary character of architectural and urban planning design and the need to cooperate with other specialists, particularly in the field of medicine and psychology
EK 4	Is familiar with the principles of universal design, including the idea of designing spaces and buildings accessible to all users, in particular for people with various disabilities
	In terms of skills:
EK 5	Is able to apply the experiences gained in the course of study to critically analyze conditions and formulate conclusions for personalized design in a complex, interdisciplinary context
	In terms of social competence:
EK 6	Is ready to undertake and perform work in a professional manner, including observing the rules of professional ethics and taking responsibility for actions taken

Course content	
Form of classes – lecture	
	Course content
W1	Architect's social responsibility in the context of users' expectations and legal regulations in the process of creating universally accessible environment
W2	Inclusive design - creating spaces and products friendly for all users; examples of solutions
W3	Universal design in educational facilities; the age of the child and changing needs; autism spectrum disorder friendly space
W4	Public spaces and the visually impaired; materials, finishes, technologies; sensory gardens
W5	Architecture in the service of medicine; semi-public spaces in a hospital complex supporting the treatment process
W6	Social participation as an essential element of the design process; active participation of the architecture user in the process of its creation
Form of classes - project	
	Course content
P1	Design of office space dedicated to blind people
P2	Design of a quiet room for people on the autism spectrum
P3	Conceptual design of a surgery building with a sensory garden

Teaching methods	
1	Informative (conventional) lectures
2	Individual project
3	Individual revision
4	Workshop creations in the form of drawing sketches

Methods and criteria of assessment

Symbol of the assessment method	Description of the assessment method	Passing threshold
O1	Written credit (set of test and descriptive questions)	51%
O2	Degree of progress and correctness of project execution (proofreading)	51%
O3	Implementation of the project	——
O4	Defense of the project	60%

Required reading	
1	Badanie potrzeb osób niepełnosprawnych -raport końcowy, 18 maja 2017 r., PFRON
2	Konwencja ONZ o prawach osób niepełnosprawnych (Dz. U. 2012 poz. 1169)
3	Bola T., Schwarz L., Budynki mieszkalne i użyteczności publicznej, [w:] Vademecum Projektanta – problemy osób niepełnosprawnych, 1991
4	Budny J, Kowalski K, Nowak E. Mieszkanie dostępne dla osób z dysfunkcją ruchu. Integracja, Biblioteczka osób niepełnosprawnych, 2016
5	Canderheiden G. C., Design for people with functional limitations resulting from disability, ageing or circumstance, 1997.
6	Charytonowicz J, Nowakowski P. Wybrane problemy jakości środowiska życia osób niepełnosprawnych. Jesień Wieku, 2009,
7	Christopherson J., Universal design; 17 ways of thinking and teaching, Husbanken, 2002
8	Dmitruk M., Ogrody lecznicze jako forma wspomagania terapii, Teka Komisji Architektury, Urbanistyki i Studiów Krajobrazowych - Polska Akademia Nauk. Oddział w Lublinie, 2015
9	Kuryłowicz E., Projektowanie Uniwersalne. Sztokholm miasto dla wszystkich, Stowarzyszenie Przyjaciół Integracji, Warszawa, 2005
10	Kuryłowicz E., Kucza-Kuczyński K., Kudelski P., Przestrzeń dla jednostki, Warszawa, 1997
11	Kwiatkowski B., Pokoje wyciszeń – współczesne tendencje projektowania, Teka Komisji Architektury, Urbanistyki i Studiów Krajobrazowych - Polska Akademia Nauk. Oddział w Lublinie, 2015
12	Przesmycka N., Dmitruk M., Wybrane aspekty projektowania przestrzeni publicznych z uwzględnieniem potrzeb seniorów, Teka Komisji Architektury, Urbanistyki i Studiów Krajobrazowych - Polska Akademia Nauk. Oddział w Lublinie, 2016
13	Ratajczyk-Szponik N, Zawadzka D, Hamela A, Lis K, „Wspólna Inicjatywa Architektoniczna” –Interdyscyplinarny projekt na rzecz likwidacji barier. Oficyna Wydawnictwa Politechniki Wrocławskiej, 2019
14	Schwartz L., Środowisko i transport, w: Vademecum Projektanta – problemy osób niepełnosprawnych, cz.1, 1991
Supplementary reading	
1	Bogucki J., Kocki W., Kwiatkowski B., Pełka J., Tuszyńska-Bogucka W., Środowisko człowieka i jego percepcja - kształtowanie przyjaznych oraz nieprzyjaznych przestrzeni mieszkalnych, Teka Komisji Architektury, Urbanistyki i Studiów Krajobrazowych - Polska Akademia Nauk. Oddział w Lublinie, 2015
2	Przesmycka N., Dzieci w mieście - wyzwania i potrzeby dziecka jako użytkownika przestrzeni publicznej, Teka Komisji Architektury, Urbanistyki i Studiów Krajobrazowych - Polska Akademia Nauk. Oddział w Lublinie, 2015

Student workload	
Student activity form	**Average number of hours needed to complete the activity**
Contact hours with the lecturer, including:	**45**
Participation in lectures	15
Participation in design classes	30
Student self-study, including:	**30**
Knowledge consolidation	5
Project execution	25
Total student workload	**75**
Total ECTS credits for the module/subject:	**3**

Learning outcomes matrix					
Symbol of the learning outcome for the course	**Reference of a particular learning outcome to outcomes defined for the field of study together with the degree of correlation**	**Course objectives**	**Course content**	**Teaching methods**	**Methods of assessment**
EK 1	A2A_W02 ++ A2A_W06 +++	C1, C2	W2, W3, W4, W5	1, 2, 3	O1
EK 2	A2A_W04 +++	C1, C2	W1, W6	1, 2, 3, 4	O1
EK 3	A2A_W02 ++	C2	W2, W3, W4, W5, W6	1	O1
EK 4	A2A_W04 +++ A2A_W06 +++	C1	W1, W2, W6	1	O1
EK 5	A2A_U02 ++ A2A_U11 +++ A2A_U12 ++ A2A_U18 +++	C2	P1, P2, P3	2, 3, 4	O2, O3, O4
EK 6	A2A_K02 +++ A2A_K07 +	C2	W1, W6, P1, P2, P3	1, 2	O1, O3, O4

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Organizational unit:	Department of Architecture and Urban Planning

Course syllabus
Field of study: Architecture
Second-cycle study

Course:	Wooden architecture design
Type of course:	Course from group A.1.
Code of course:	IIA.1.7.
Year:	I
Semester:	I
Mode of study:	Full-time
Form of classes and number of contact hours per semester:	30
Lecture	15
Classes	-
Laboratory	-
Project	15
Number of ECTS credits:	2
Form of assessment:	Lecture – credit, project – credit
Language of instruction:	Polish

Course objectives	
C1	Acquiring knowledge about traditional forms of wooden architecture, historical methods of construction, shaping the details and functional arrangements of wooden buildings from various regions of Poland
C2	Gaining knowledge of contemporary applications of wood in architecture
C3	Sensitizing students to the cultural values of traditional wooden architecture and making them aware of the importance of its protection and continuation as an element of local identity
C4	Acquisition of the skills of drawing and descriptive inventory of the wooden architectural building and architectural design with the use of wood as the basic material shaping the form and structure of the building
C5	Acquiring knowledge about possibilities and methods of protection, preservation, adaptation or reconstruction of wooden buildings which are not monuments but have a cultural value

Preliminary requirements in terms of knowledge, skills and other competencies	
1	Skill in freehand and construction drawing, taking measurements in the field
2	Knowledge of the history of Polish architecture and art
3	Basic knowledge of material science (wood as a structural material) and timber construction

Learning outcomes	
	In terms of knowledge:
EK 1	Knows the basic traditional construction techniques used in Polish wooden architecture, depending on the region
EK 2	Knows the possibilities of using wood in contemporary architecture

	In terms of skills:
EK 3	Is able to take an inventory of a wooden architectural structure and present it in a clear and legible manner
EK 4	Is able to do a conceptual project for the adaptation of a traditional wooden building to modern purposes
EK 5	Is able to use wood as a basic material of architectural creation
	In terms of social competence**:**
EK 6	Is ready to formulate and present opinions on the value of traditional wooden architecture, its respect and role in shaping the identity of the cultural landscape

Course content	
Form of classes – lecture	
	Course content
W1	Traditional building techniques and forms of wooden architecture in the area of modern form. Typology of residential, farm, industrial, religious buildings, etc. Regional differences
W2	Contemporary wooden architecture. Problem-based lecture
Form of classes – project	
	Course content
P1	Inventory of a traditional wooden architecture building, making a model, information card. Creating a project for preservation or adaptation of the building.
P2	Design of a small architectural object (pavilion, observation tower, etc.) whose structure and architectural form result from the use of wood as the basic building material

Teaching methods	
1	Traditional lecture with the use of multimedia presentations. Teaching tour to the Open Air Museum in Lublin
2	Field measurements, design execution, individual and team revisions
3	Design drawing test performed during class

Methods and criteria of assessment		
Symbol of the assessment method	**Description of the assessment method**	**Passing threshold**
O1	Degree of progress and correctness of the execution of the project (revision) or drawing test	51%
O2	Written test	60%

Required reading	
1	Galindo M., Wood Architecture & Design, Braun, 2012
2	Green M., Taggart J., Tall wood buildings, design, construction and performance, Brichkäuser 2017
3	Tłoczek I., Polskie budownictwo drewniane, Zakład Narodowy im. Ossolińskich, 1980

Supplementary reading	
1	Gloger Z.; Encyklopedia Staropolska (wersja cyfrowa http://literat.ug.edu.pl/glogers/index.htm)
2	Kopkowicz F.; Ciesielstwo Polskie, 1958 reprint
3	Przesmycka N., 2015, Polska architektura drewniana. Wybrane zagadnienia [w:] Drewniany Skarb. Chroniąc dziedzictwo, kreujemy przyszłość. Podsumowanie projektu; Lublin: Ośrodek "Brama Grodzka - Teatr NN", s. 56-75
4	Ruszczyk G., Drewno i architektura. Dzieje budownictwa drewnianego w Polsce, Arkady 2014

Student workload	
Student activity form	**Average number of hours needed to complete the activity**
Contact hours with the lecturer, including:	**30**
Lectures	15
Project classes	15
Student self-study, including:	**20**
Project development	10
Preparation for the written test	10
Total student workload	**50**
Total ECTS credits for the module/subject:	**2**

Learning outcomes matrix					
Symbol of the learning outcome for the course	**Reference of a particular learning outcome to outcomes defined for the field of study together with the degree of correlation**	**Course objectives**	**Course content**	**Teaching methods**	**Methods of assessment**
EK 1	A2A_W02 +++ A2A_W15 +++	C1	W1	1	O2
EK 2	A2A_W07 +++ A2A_W19 ++	C2	W2, P2	1	O2
EK 3	A2A_U10 ++ A2A_U15 +++	C4	P1	1, 3	O1
EK 4	A2A_U03 ++ A2A_U06 +++ A2A_U15 +++	C4, C5	P1, P2	2, 3	O1
EK 5	A2A_U03 +++ A2A_U07 ++ A2A_U15 +++	C4	P2	2, 3	O1
EK 6	A2A_K05 ++ A2A_K09 +++	C3	W1, W2, P1, P2	2, 3	O1, O2

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Organizational unit:	Department of Architecture and Urban Planning

Course syllabus
Field of study: Architecture
Second-cycle study

Course:	Spatial and regional planning
Type of course:	Course from group A.2.
Code of course:	IIA.2.1.
Year:	I
Semester:	I
Mode of study:	Full-time
Form of classes and number of contact hours per semester:	30
Lecture	15
Classes	-
Laboratory	-
Project	15
Number of ECTS credits:	2
Form of assessment:	Lecture – credit, project – credit
Language of instruction:	Polish

Course objectives	
C1	Acquiring knowledge in the field of regional planning in Poland and the European Union countries
C2	Knowing and understanding the mechanisms and factors of regional development, the principles of constructing and planning a vision of spatial development of spatial units of various sizes and complexity
C3	Acquiring the ability to use complex analytical instruments concerning regional conditions, based on them, optimal spatial regional policy
C4	Ability to see the importance of non-technical aspects and effects of an architect's design activity, including its impact on the cultural and natural environment

Preliminary requirements in terms of knowledge, skills and other competencies	
1	Knowledge of basic planning documents in the field of spatial and regional planning
2	The ability to collect data and information necessary for planning the spatial development of an area on a regional and local scale

Learning outcomes	
	In terms of knowledge:
EK 1	Knows and understands the role and importance of the natural environment in architectural and urban design and spatial planning as well as the need to shape the spatial order, sustainable development, and the subject of cultural landscape
EK 2	Knows and understands issues related to architectural, urban and spatial planning, such as the natural environment, landscape architecture, legal and social topics - necessary to understand social, economic, ecological, natural, historical, cultural, legal and other non-technical determinants of engineering activities and recognizes the

	need to take them into account in architectural, urban, rural, spatial and regional planning
EK 3	Has the necessary knowledge in the field of regional policy and spatial planning systems in Poland and countries of the European Union, basic planning procedures and documents in the field of regional planning
	In terms of skills:
EK 4	Is able to analyze regional planning documents and use the obtained information to formulate conclusions regarding the spatial policies for selected areas
EK 5	Is able to integrate the advanced knowledge of various areas of science, including history, history of regional architecture, protection of regional cultural goods, spatial planning while solving complex engineering tasks
EK 6	Can use properly selected advanced computer simulations, analysis and information technologies supporting architectural and urban design, in particular knows and knows how to use the basic concepts of GIS (Geographical Information System), SIP (Spatial Information System) and SIT (Area Information System) in spatial analyzes and spatial development design on a regional and local scale
	In terms of social competences:
EK 7	Is ready to conduct a reliable self-assessment, formulate constructive criticism regarding architectural and urban planning activities, as well as accept criticism of the solutions student presents, respond to criticism in a clear and substantive manner, also using the arguments referring to the available achievements in the scientific discipline, as well as creative and constructive use of criticism in the field of spatial and regional design

Course content	
Form of classes – Lectures	
	Course content
W1	The concept of a region - territorial administration units and regions in Poland and in the world, euroregions
W2	Regional policy - factors and mechanisms of regional development, regional analyzes, shaping regional policies in the scales: global, continental, national and individual regions
W3	Spatial economy of the European Union - basic planning and programming procedures and documents
W4	Polish regional spatial policy - The Concept of the National Spatial Planning: scope, references to the applicable state programming documents, references to the European spatial policy, policy concerning regions (voivodships)
W5	Regional planning - spatial development plan of the voivodship : role, scope and procedure of preparation, references to the planning documents at the national and local level

W6	Tools, methods and techniques for modeling and forecasting socio-economic and spatial processes in relation to spatial units of various size and complexity
W7	Legislative techniques in spatial planning - types, content and structure of planning documents of individual levels, forms of recording
Form of classes – project	
	Content
P1	Spatial development plan of the voivodship - independent analysis of the plan content
P2	Voivodship spatial development plan - independent preparation of guidelines on the basis of the voivodeship spatial development plan for a selected local administration unit (city / rural commune)
P3	Study on the conditions and directions of spatial development of the city (commune)- a proposal to include the guidelines from the voivodship plan in the city (commune) study

Teaching methods	
1	Informative lecture (conventional)
2	Conversational lecture
3	Individual project
4	Individual revision

Methods and criteria of assessment		
Symbol of the assessment method	**Description of the assessment method**	**Passing threshold**
O1	Written credit	51%
O2	Participation in the discussion while discussing the results of analysis of the plan content	Formative assessment (no passing threshold)
O3	Implementation of the project	——
O4	Oral defense of the project	51%

Required reading	
1	Chmielewski J.M. Teoria urbanistyki w projektowaniu i planowaniu miast, OW PW, Warszawa 2010
2	Ustawa z dnia 27.03.2003r. o planowaniu i zagospodarowaniu przestrzennym (tj. Dz.U. z 2012r., poz. 647 z późn. zm.)
3	Rozporządzenie Ministra Infrastruktury z dnia 28.04 2004r. w sprawie zakresu projektu studium uwarunkowań i kierunków zagospodarowania przestrzennego gminy (Dz.U. Nr 118 z 2004r., poz. 1233)
4	Plan Zagospodarowania Przestrzennego Województwa Lubelskiego, Sejmik Województwa Lubelskiego, Lublin 2016
5	Plan Zagospodarowania Przestrzennego Województwa Lubelskiego, Sejmik Województwa Lubelskiego, Lublin 2015
Supplementary reading	
1	Beck C.H., Planowanie i zagospodarowanie przestrzenne. Komentarz, Warszawa 2011

2	Koncepcja Przestrzennego Zagospodarowania Kraju 2030, Rada Ministrów RP, Warszawa 2011
3	Studium Urbanizacji Lubelskiego Obszaru Metropolitalnego, Sejmik Województwa Lubelskiego, Lublin 2009
4	Miasto, metropolia, region, tom III, Zarządzanie rozwojem przestrzennym miast, pod red. P. Lorensa i J. Martyniuk-Pęczek, Wydawnictwo Urbanista, Gdańsk 2010

Student workload	
Student activity form	**Average number of hours needed to complete the activity**
Contact hours with the lecturer, including:	**30**
Lectures	15
Project	15
Student self-study, including:	**20**
Preparation to the credit	5
Analysis and design completion	15
Total student workload	**50**
Total ECTS credits for the module/subject:	**2**

Learning outcomes matrix					
Symbol of the learning outcome for the course	**Reference of a particular learning outcome to outcomes defined for the field of study together with the degree of correlation**	**Course objectives**	**Course content**	**Teaching methods**	**Methods of assessment**
EK 1	A2A_W04 +++ A2A_W15 ++	C1, C2	W1, W2	1, 2	O1
EK 2	A2A_W02 +++ A2A_W11 ++ A2A_W14 +++	C1, C2	W3, W4, W5, W6	1, 2	O1
EK 3	A2A_W02 +++ A2A_W10 + A2A_W14 ++	C1, C2	W2, W3, W4, W5, W6 W7	1, 2	O1
EK 4	A2A_U04 +++ A2A_U08 +++ A2A_U14 +++	C3, C4	P2, P3	3, 4	O3, O4
EK 5	A2A_U04 +++ A2A_U08 +++ A2A_U14 +++	C3, C4	P1, P2, P3	3, 4	O3, O4
EK 6	A2A_U10 +++	C3, C4	P1, P2, P3	3, 4	O3, O4
EK 7	A2A_K03 +++	C1, C2, C3, C4	W7, P2, P3	1, 2, 3, 4	O1, O2, O3, O4

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Organizational unit:	Department of Contemporary Architecture

Course syllabus
Field of study: Architecture
Second-cycle study

Course:	Regional architecture
Type of course:	Course from group A.2.
Code of course:	IIA.2.2.
Year:	I
Semester:	II
Mode of study:	Full-time
Form of classes and number of contact hours per semester:	30
Lecture	15
Classes	-
Laboratory	-
Project	15
Number of ECTS credits:	2
Form of assessment:	Lecture – credit, project – credit
Language of instruction:	Polish

Course objectives	
C1	Acquiring knowledge about the role of regional architecture in the preservation and continuation of the identity of the human cultural environment, the use of knowledge on the importance of the idea of regional architecture for the humanization of the contemporary transformation processes of specific objects of space and regions
C2	Acquiring the ability to harmoniously combine regional topics with contemporary trends in shaping architecture and urban planning

Preliminary requirements in terms of knowledge, skills and other competencies	
1	Student has basic knowledge of the history of architecture and general and Polish art, and the history of urban planning and green spaces
2	Knowledge of the Construction Law and Technical Conditions to be met by buildings and their location, knowledge of the principles of designing architectural objects in terms of technical and functional solutions
3	Knowledge of the principles of general construction and material science, the ability to use freehand drawings as well as arts techniques and IT techniques

Learning outcomes	
	In terms of knowledge:
EK 1	Knows and understands the principles of architectural design of various complexity degrees in a complex context - in an open landscape or urban environment, taking into account architectural specificity of the region (Lublin region)

EK 2	Knows and understands the issues of the interdisciplinary nature of architectural and urban designing and the need to integrate knowledge from other fields, including the context of the location and conditions characteristic for the design of regional architecture
EK 3	Knows and understands the issues of the history of architecture and urban planning, including the history of regional architecture - styles, heritage protection, to the extent necessary in architectural, urban and planning works
	In terms of skills:
EK 4	Student is able to design an object of regional architecture, creating and transforming the space so as to give it new values - in accordance with a given programme, taking into account the requirements and needs of all users and with respect to the spatial and cultural context
EK 5	Student is able to conduct a critical analysis of conditions, including the valorization of the land development and building conditions, implement design principles and guidelines, and prepare design documentation in the field of architecture
	In terms of social competences:
EK 6	Student is ready to think independently in order to solve design problems

Course content	
Form of classes – lecture	
	Course content
W1	Presentation and analysis of the history of the theory of architectural regionalism
W2	Presentation and analysis of projects and realizations belonging to the styles of "Zakopiański", "Podhalański", "Witkiewiczowski"
W3	Indication of contemporary cultural contexts proving the legitimacy of continuing architectural forms identified with the local tradition
W4	Analysis of the selected fragments of rural, urban and suburban buildings in the aspect of using the existing cultural and landscape values and the restitution of degraded buildings, building complexes and spaces
W5	Presentation of the concept of restitution and restructuring of facilities, building complexes and spaces with regional characteristics
W6	Regional architecture of the Lublin region, the analysis of formal and material solutions
Form of classes – project	
	Course content
P1	Determining the subject of design tasks concerning the continuation of regional features of selected facilities, complexes and spaces. Determining the cultural conditions of the design task. Analysis of the features of alternative solutions, determining the optimal solution

P2	Development of an architectural and urban conceptual design. Working in pairs (depending on the chosen topic)

Teaching methods	
1	Informative lectures (conventional)
2	Individual project
3	Individual revision
4	Presentation of sample practical solutions
5	Workshop implementations in the form of drawing sketches

Methods and criteria of assessment		
Symbol of the assessment method	**Description of the assessment method**	**Passing threshold**
O1	Written credit - a set of test and descriptive questions	51%
O2	Degree of advancement and correctness of project implementation (correction)	51%
O3	Implementation of the project	——
O4	Oral defense of the project	60%

Required reading	
1	Ustawa z dn. 7 lipca 1994 r. Prawo Budowlane (tekst jednolity Dz. U. nr 156 z 2006 r. poz. 1118 z późniejszymi zmianami)
2	Rozporządzenie Ministra Infrastruktury z dnia 12 kwietnia 2002 r. w sprawie warunków technicznych, jakim powinny odpowiadać budynki i ich usytuowanie. (Dz. U. z dnia 15 czerwca 2002 r.)
3	Ciołek G., Regionalizm w budownictwie wiejskim w Polsce, tom 1i 2, PK, Kraków 1984
4	Moździerz Z., Gmach Muzeum Tatrzańskiego, Wyd. Muzeum Tatrzańskiego w Zakopanym, vol.26, Zakopane 2005
5	Paszkowski Z., Tradycja i innowacja w twórczości architektonicznej, PS .Szczecin 1997
6	Radziewanowski Z., O niektórych problemach regionalizmu i ekologii w architekturze i urbanistyce, pomoc dydaktyczna, PK Kraków 2005
7	Górak J., Regionalne formy architektury drewnianej Lubelszczyzny na tle zagadnień osadniczych, Państwowa Służba Ochrony Zabytków
8	Górak J., Budownictwo drewniane Lubelszczyzny, Lublin : Wydawnictwo Lubelskie, 1977
9	Grabowski, Sztuka ludowa, formy i regiony w Polsce, Warszawa 1966
10	Zabytki architektury i budownictwa w Polsce, tom 22 - województwo lubelskie, Warszawa 1995
11	Z. Staszczak, Budownictwo chłopskie w województwie lubelskim (w XIX i XX wieku). Wrocław 1963
Supplementary reading	
1	O. Kolberg, Lubelskie, Kraków 1883 i 1884

2	T. Pietrasiewicz, Drewniany Skarb. Chroniąc dziedzictwo, kreujemy przyszłość. Podsumowanie projektu, Teatr NN, 2015
3	K. Boguszewska, Selected residences in the Zamość entail – the state of preservation and the problems of protection of the estates, Czasopismo Inżynierii Lądowej, Środowiska i Architektury = Journal of Civil Engineering, Environment and Architecture.- [Kwartalnik].- Rzeszów : Oficyna Wydawnicza Politechniki Rzeszowskiej.- ISSN 2300-5130 (print), ISSN 2300-8903 (on-line), 2019

Student workload	
Student activity form	**Average number of hours needed to complete the activity**
Contact hours with the lecturer, including:	**30**
Lectures	15
Project	15
Student self-study, including:	**20**
Preparing to credit	5
Independent project execution	15
Total student workload	**50**
Total ECTS credits for the subject:	**2**

Learning outcomes matrix					
Symbol of the learning outcome for the course	**Reference of a particular learning outcome to outcomes defined for the field of study together with the degree of correlation**	**Course objectives**	**Course content**	**Teaching methods**	**Methods of assessment**
EK 1	A2A_W02 ++ A2A_W14 +++	C1, C2	W1, W2, W3, W4, W5, W6, P1	1, 4	O1
EK 2	A2A_W03 +++ A2A_W04 ++ A2A_W12 +++	C1, C2	W2, W3, W4, W5, W6, P1, P1, P2	1, 4	O1, O2, O3
EK 3	A2A_W03 +++	C1, C2	W1, W2, W3, W4, W5, W6, P1	1, 4	O1
EK 4	A2A_U02 ++ A2A_U03 +++	C1, C2	P1, P2	2, 3, 4, 5	O2, O3, O4
EK 5	A2A_U01 ++ A2A_U07 ++	C1, C2	P1, P2	2, 3, 5	O2, O3, O4
EK 6	A2A_K03 +++	C1, C2	W3, W5, W6, P1, P2	1, 2, 3, 4, 5	O1, O2, O3, O4

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Organizational unit:	Department of Contemporary Architecture

Course syllabus
Field of study: Architecture
Second-cycle study

Course:	Regional architecture
Type of course:	Course from group A.2.
Code of course:	IIA.2.3.
Year:	I
Semester:	II
Mode of study:	Full-time
Form of classes and number of contact hours per semester:	30
Lecture	15
Classes	-
Laboratory	-
Project	15
Number of ECTS credits:	2
Form of assessment:	Lecture – credit, project – credit
Language of instruction:	Polish

Course objectives	
C1	Obtaining knowledge necessary to carry out architectural projects with respect to the existing historical context
C2	Obtaining the ability to analyze, interpret, preserve and consolidate the identity of local architecture based on the environmental analysis
C3	Acquiring the ability to incorporate the details and architectural design into the existing historical environment

Preliminary requirements in terms of knowledge, skills and other competencies	
1	Knowledge of monument protection and the related issues from the perspective of the monument protection
2	Knowledge of the history of general architecture and the history of Polish architecture
3	Possessing skills of architectural design

Learning outcomes	
	In terms of knowledge:
EK 1	Knows advanced analysis methods, tools, techniques and materials necessary for preparation of design concepts in an interdisciplinary environment
EK 2	Knows the role and importance of the natural environment in architectural and urban design and spatial planning, and the need to shape the spatial order, sustainable development, and the problems connected with environmental and cultural landscape threats
	In terms of skills:
EK 3	Student is able to conduct a critical analysis of conditions, including the valorization of the state of land and buildings development; formulate conclusions concerning design and spatial planning

EK 4	Is able to develop a conservation design concept for transforming an architectural and urban structure of cultural values, taking into account the protection of these values, with the use of appropriate methods and techniques,
EK 5	Is aware of the importance of non-technical aspects and effects of an architect's design activity, including its impact on the cultural and natural environment, and take responsibility for the technical decisions made concerning the environment and for passing on cultural and natural heritage to the next generations
	In terms of social competences:
EK 6	Is ready to take responsibility for humanistic, social, cultural, architectural and urban values in the protection of the environment and cultural heritage

Course content	
Form of classes – lecture	
	Course content
W1	Presentation of the rules that apply to a given topic
W2	The issue of the authenticity of matter and form in the contemporary protection of monuments
W3	Designing in the context of existing buildings and in areas under conservation protection
W4	Presentation of good practices contrasted with bad solutions
Form of classes – project	
	Course content
P1	Preparing a design of the selection of architectural decor in a historic space, and a proposal to change the existing details or make new additions

Teaching methods	
1	Lecture with the use of multimedia presentations containing theoretical content and sample practical solutions
2	Team project

Methods and criteria of assessment		
Symbol of the assessment method	**Description of the assessment method**	**Passing threshold**
O1	Written credit of the lecture content	60%
O2	Implementation of the project	——
O3	Defence of the project	60%

Required reading	
1	Celadyn W., Detal architektoniczny w świetle współczesnych imperatywów projektowych
2	Tajchman J., Drewniane drzwi zabytkowe na terenie Polski : systematyka i problematyka konserwatorska, [w:] Ochrona Zabytków 44/4 (175), s. 269-277, 1991
3	Tajchman J., Stolarka okienna w Polsce. Rozwój i problematyka konserwatorska, Ośrodek Dokumentacji Zabytków, Warszawa, 1990

4	Tajchman J., Stolarka okienna. Słownik terminologiczny architektury, Ośrodek Dokumentacji Zabytków, Warszawa, 1993
Supplementary reading	
1	Brykowska, M.: Metody pomiarów i badań zabytków architektury, Oficyna Wydawnicza Politechniki Warszawskiej, Warszawa, 2003
2	Gyurkovich J., Kompozycja przestrzeni miejskiej, współczesne interwencje w historycznej tkance i sylwecie, Materiały z Międzynarodowej Konferencji Konserwatorskiej, Kraków, 2000
3	Rouba B. J., Autentyczność i integralność zabytków, [w:] Ochrona Zabytków, 2008, nr 4, s. 37-57
4	Szmygin B., Kształtowanie koncepcji zabytku i doktryny konserwatorskiej w Polsce w XX wieku, Lublin, 2000
5	Szmygin B., Vademecum konserwatora zabytków: międzynarodowe normy ochrony dziedzictwa kultury, Polski Komitet Narodowy ICOMOS, Warszawa, 2015
6	Tajchman J., Standardy w zakresie projektowania, realizacji i nadzorów prac konserwatorskich dotyczących zabytków architektury i budownictwa, Narodowy Instytut Dziedzictwa, Warszawa, 2014
7	Zachwatowicz, J., Ochrona zabytków w Polsce, Polonia, Warszawa, 1965

Student workload	
Student activity form	**Average number of hours needed to complete the activity**
Contact hours with the lecturer, including:	**30**
Lectures	15
Project	15
Student self-study, including:	**20**
Preparation for the credit	5
Project completion	15
Total student workload	**50**
Total ECTS credits for the subject:	**2**

Learning outcomes matrix					
Symbol of the learning outcome for the course	**Reference of a particular learning outcome to outcomes defined for the field of study together with the degree of correlation**	**Course objectives**	**Course content**	**Teaching methods**	**Methods of assessment**
EK 1	A2A_W02 ++ A2A_W07 +++	C1	W1, W2, W3, W4	1	O1
EK 2	A2A_W04 ++ A2A_W15 ++	C1	W1, W2, W3, W4	1	O1
EK 3	A2A_U02 +++ A2A_U13 +	C2	P1	2	O2, O3

EK 4	A2A_U07 ++	C3	P1	2	O2, O3
EK 5	A2A_U12 ++ A2A_U18 ++	C3	P1	2	O2, O3
EK 6	A2A_K07 ++	C1, C2, C3	W1, W2, W3, W4, P1	1, 2	O1, O2, O3

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Organizational unit:	Department of Conservation of Built Heritage

Course syllabus
Field of study: Architecture
Second-cycle study

Course:	Modernization of built-up areas
Type of course:	Course from group IIA.2.
Code of course:	IIA.2.4.
Year:	I
Semester:	II
Mode of study:	Full-time
Form of classes and number of contact hours per semester:	30
Lecture	15
Classes	-
Laboratory	-
Project	15
Number of ECTS credits:	2
Form of assessment:	Lecture – credit, project – credit
Language of instruction:	Polish

Course objectives	
C1	Acquiring knowledge on the relationship between the man and architecture and between architecture and the surrounding environment, and the need to adapt architecture in built-up areas to the current human needs
C2	Acquiring the ability to use information sources, formulate tasks and make selection of engineering techniques used in the design of built-up areas
C3	Acquiring the ability to understand the values of the multi-sector nature of architectural and urban design and the need to cooperate with other industry professionals and specialists

Preliminary requirements in terms of knowledge, skills and other competencies	
1	Has knowledge and skills of the basics of architectural, construction and universal design allowing the use of various techniques to improve and revitalize the operated buildings and the areas related to them
2	Knows the fundamentals of knowledge in the field of urban and universal design as well as material science, construction installations, technical infrastructure: cities, roads and streets, and construction law regulations

Learning outcomes	
	In terms of knowledge:
EK 1	Knows and understands the relationship between the man and architecture and between architecture and the surrounding environment, and the need to adapt architecture in built-up areas to the current human needs
	In terms of skills:
EK 2	Is able to use the interdisciplinary knowledge and skills acquired during studies in order to design the modernization of a facility or a selected built-up area meeting not

	only the aesthetic and technical requirements, creating and transforming the space, giving it new functional values resulting from the opinions of users
	In terms of social competences:
EK 3	Is ready to critically evaluate the knowledge and content received, recognize its importance in solving the modernization problems as well as the social issues, and on this basis is able to supplement and expand it independently, especially in the field of modern design trends in modernization of built-up areas

Course content	
Form of classes – lecture	
	Course content
W1	Examples of contemporary spatial, material and technological solutions allowing to create human-friendly living conditions in the living environment
W2	Critical analysis of the selected design problems in modernized areas, including an educational trip
Form of classes – Project	
	Course content
P1	Critical evaluation of the functionality of a built-up area or a facility selected for modernization and selection of a set of repair needs targeted at M_f
P2	Implementation of the concept of the modernized built-up area, carried out using the PEARS model, with an indication of selected detailed solutions in terms of M_f user-friendly

Teaching methods	
1	Problem lecture with the use of multimedia presentations, educational films with theoretical and practical content
2	Individual or group implementation of projects by students; critical analysis of a case study for the modernization of a built-up area

Methods and criteria of assessment		
Symbol of the assessment method	**Description of the assessment method**	**Passing threshold**
O1	Credit for the lecture	60%
O2	Implementation of the project	——
O3	Oral defense of the project	60%

Required reading	
1	Ostańska A., Podstawy metodologii tworzenia programów rewitalizacji dużych osiedli mieszkaniowych wzniesionych w technologii uprzemysłowionej na przykładzie osiedla im. St. Moniuszki w Lublinie, Wydawnictwa Politechniki Lubelskiej, Lublin 2009
2	Taczanowska T., Ostańska A., Dokładność realizacji a potrzeba modernizacji budynków wielkopłytowych, Wydawnictwo MEDIUM, Warszawa 2012
3	Ostańska A., Badania społeczne jako przyczynek do poprawy środowiska zbudowanego. w: „Badania Interdyscyplinarne w Architekturze 1”, tom 1 „Problemy jakości środowiska

	w kontekście zrównoważonego rozwoju", Monografia konferencyjna, Wydział Architektury Politechniki Śląskiej, Gliwice 2015
4	Ostańska A., Możliwości poprawy funkcjonowania budynków wykonanych w technologii prefabrykowanej z uwzględnieniem potrzeb osób niepełnosprawnych. w: Budownictwo prefabrykowane w Polsce: stan i perspektywy; [Red:] Sobczak-Piąstka J., Podhorecki A., Wydawnictwo Uczelniane Uniwersytetu Technologiczno-Przyrodniczego w Bydgoszczy, Bydgoszcz 2016
5	Ostańska A., Social investigations as a measuring instrument of construction industry in the areas of Polish districts with prefabricated buildings, Budownictwo i Architektura, vol. 16 (4), 2017
6	Ostańska A., Analiza wyników badań struktury zasobów mieszkaniowych w Polsce na przykładzie budynków wznoszonych w technologii prefabrykowanej, Przegląd budowlany, 5, 2019
7	Ostańska A., Improving condition of prefab multifamily housing stock: user perspective assessed via direct survey, IOP Conference Series: Materials Science and Engineering, vol. 471, 2019
8	Ostańska A., Improving Living Conditions in Mass Housing of the Prefabrication Era: The User's Point of View, IOP Conference Series: Materials Science and Engineering, vol. 603, 2019
9	Ostańska A., Monitoring the resident's needs: input for the pre-construction stage of rehabilitation projects. Przegląd Naukowy Inżynieria i Kształtowanie Środowiska, vol. 28, nr 3, 2019
10	Ostańska A., Resident opinion surveys as a contribution to improved housing stock management, Architecture - Civil Engineering - Environment, nr 2, 2016
11	Ostańska A., Evolution of Spaces between Buildings in Polish Mass Housing Estates in the Eyes of the Inhabitants, World Multidisciplinary Civil Engineering-Architecture-Urban Planning Symposium WMCAUS, Prague, Czechy 2017
12	Ostańska A., Czarnigowska A., Rehabilitation of public and semi-public space of housing estates: the case of Lubartow, w: Sustainable Built Environment Conference 2016 in Hamburg: Strategies, Stakeholders, Success factors, 7th - 11th March 2016; Conference Proceeding; Hamburg: Karlsruhe Institute of Technology (KIT) ZEBAU - Centre for Energy, Construction, Architecture and the Environment GmbH, Hamburg 2016
13	Ostańska A., Algorithm of revitalization programme design for housing estates, Civil and Environmental Engineering Reports, 18 (3), 2015
14	Ostańska A., Programowanie rewitalizacji osiedli mieszkaniowych z zastosowaniem modelu PEARS, PAN KILiW, Warszawa 2018 – w kontekście rozwiązań modernizacji funkcjonalnej (M_f)
Supplementary reading	
1	Skowroński Wojciech i inni: Leksykon architektoniczno-budowlany. Arkady 2008
2	Czarnigowska A., Ostańska A., Programy rewitalizacji osiedli z zabudową prefabrykowaną na przykładzie Frankfurtu nad Odrą, Przegląd budowlany, 11, 2011
3	Ostańska A., Ocena możliwości poprawy jakości życia w budynkach prefabrykowanych w opinii ich mieszkańców, Budownictwo i Inżynieria Środowiska, 2011
4	Ostańska A., Programy rewitalizacji osiedli z zabudową prefabrykowaną w Europie przyczynkiem do opracowywania programów polskich, Przegląd budowlany, 3, 2010

5	Ostańska A., Zmiany w preferencjach mieszkańców osiedla z budynkami prefabrykowanymi po pięciu latach od chwili pierwszej ankiety społecznej, Przegląd budowlany, 12, 2010
6	Ostańska A., Pasternak A., Przykłady udostępniania osobom niepełnosprawnym wielkopłytowych budynków mieszkalnych, Inżynieria i budownictwo, 8, 2010

Student workload	
Student activity form	**Average number of hours needed to complete the activity**
Contact hours with the lecturer, including:	**30**
Lectures	15
Project	15
Student self-study, including:	**20**
Prepariatnog for the credit	5
Project completion	15
Total student workload	**50**
Total ECTS credits for the subject:	**2**

Learning outcomes matrix					
Symbol of the learning outcome for the course	**Reference of a particular learning outcome to outcomes defined for the field of study together with the degree of correlation**	**Course objectives**	**Course content**	**Teaching methods**	**Methods of assessment**
EK 1	A2A_W04 ++	C1, C2	W1, W2	1	O1
EK 2	A2A_U12 +++	C1, C2, C3	P1, P2	2	O2, O3
EK 3	A2A_K03 ++	C3	W1, W2, P2	1, 2	O1, O2, O3

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Organizational unit:	Department of Architecture and Urban Planning

Course syllabus
Field of study: Architecture
Second-cycle study

Course:	History and theory of contemporary architecture and urban planning
Type of course:	Course from group B.1.
Code of course:	IIB.1.1.a.
Year:	I
Semester:	I
Mode of study:	Full-time
Form of classes and number of contact hours per semester:	15
Lecture	15
Classes	-
Laboratory	-
Project	-
Number of ECTS credits:	1
Form of assessment:	Lecture - credit
Language of instruction:	Polish

Course objectives	
C1	Recognizing and interpreting the timeless inexhaustible sources of architectural and urban structures and forms.
C2	Developing the ability to use an understandable language to communicate the problems of architectural and urban solutions
C3	Developing the ability to apply concepts and ideas from the field of philosophy, sociology, psychology and art in the urban and architectural contexts
C4	Acquiring knowledge on the conditions of development and cultural context of the contemporary architecture
C5	Acquiring and developing knowledge about the principles and goals of formulating and expressing student's own individual and collective views on architecture and urban planning

Preliminary requirements in terms of knowledge, skills and other competencies	
1	Knowledge and skills of how to recognize, design and interprete basic spatial relations within the city
2	Required knowledge and skills in the field of recognition, design and interpretation of spatial relations within buildings

Learning outcomes	
	In terms of knowledge:
EK 1	Has structured knowledge of various aspects of the theory of contemporary world architecture in the particular cultural context
EK 2	Knows the relationship between architecture and other arts, as well as the currents of thought that gave rise to them

EK 3	Knows many different theoretical statements relating to architecture and urban planning
EK 4	Has extended knowledge of the history and theory of architecture, the theory of urban planning with its references in the field of fine arts, technical sciences, social sciences and humanities
EK 5	Knows and understands the principles of critical evaluation of the contemporary approach to architectural design
EK 6	Has a structured knowledge of theoretical and formal inspirations in today's architecture
	In terms of social competence:
EK 7	Is ready to supplement and broaden his/her knowledge of modern trends in architecture and urban planning

Course content	
Form of classes – lecture	
	Course content
W1	Building houses and cities. Introduction into the subject
W2	Nature as a source of architectural structures. The work of Frank Lloyd Wright - organic architecture
W3	Choosing styles for expressing cultural content. Historicist Architecture in the 19th Century
W4	Chaos on the chessboard. Geometric sources of order. Town planning by Ildefons Cerdy. Barcelona
W5	Freedom to mix styles. Eclectic architecture at the end of the 19th century. Great public buildings
W6	Modern multi-functional streets - boulevards, passages, old city regulations. Town planning in the second half of the 19th century - reconstruction of cities. Paris by Hausman, Milan and Florence
W7	Nature as a source of forms. Vienna Secession, French Art Nouveau, Spanish Modernismo
W8	Classic compositions of multi-functional districts. Town planning in the second half of the 19th century - expansion of cities. Vienna - rings. Berlin - Joseph Stübben
W9	The Architecture of the Art's and Crafts Movement: Garden Houses in a Landscape. Wiliam Morris Edwin Lutyens, Gertrude Jekyll, Baillie Scott, C.F.A. Voysey
W10	The country and the city. Natural landscapes in the city. Squares. Garden cities and patron cities. Nikiszowiec and Giszowiec. Ebenezer Howard's theories
W11	Novelty and Identity - Amsterdam School. Geometric abstraction as a source of forms. Gerit Rietveld
W12	Districts for workers. Successful housing reforms. Amsterdam South District
W13	Adolf Loos's Raumplan and Le Corbusier's free plan. Futurists
W14	Houses like quarters. Social courtyards. Red Vienna

Teaching methods	
1	Traditional lectures using architectural drawings, photos of buildings, reproductions of archival photographs and works of art, and quotes from architects, architecture critics, historians, writers, and journalists

2	Conversational fragments of lectures

Methods and criteria of assessment		
Symbol of the assessment method	**Description of the assessment method**	**Passing threshold**
O1	Written or oral exam	60%
O2	Class participation	Formative assessment (no pass threshold)

Required reading	
1	Alexander Christopher – Język wzorców. Miasta, budynki, konstrukcja, Gdańsk 2008
2	Banham Reyner – Rewolucja w architekturze, Warszawa 1979
3	Blake Peter – Mies van der Rohe – Architektura i struktura, Warszawa 1991
4	Jencks Charles – Ruch nowoczesny w architekturze, Warszawa 1987
5	Jencks Charles – Architektura postmodernistyczna, Warszawa 1987
6	Wujek Jakub – Mity i utopie architektury XX wieku, Warszawa 1986
7	Dokąd zmierza architektura ? Wydawnictwo MURATOR, Warszawa 2005
8	Bielecki Czesław – Gra w miasto, Warszawa 1996
9	(red) Budak Adam – Co to jest architektura, Kraków 2008
10	Droste Magdalena - Bauhaus, Kolonia 2006
11	Gehl Jan – Życie między budynkami. Warszawa 2011
12	Giedion Sigfried– Przestrzeń, czas, architektura. Narodziny nowej tradycji. Warszawa 1968
13	Fest Joachim - Speer. Biografia. Kraków 2001
14	Hansen Oskar – Ku Formie Otwartej, Warszawa 2005
15	Hensbergen Gijs – Gaudi, Poznań 2003
16	Jencks Charles – Architektura późnego modernizmu, Warszawa 1989
17	Krier Leon – Architektura wspólnoty, Gdańsk 2011
18	Rybczyński Witold – Dom. Krótka historia idei, Warszawa 1996
19	(red) Świątkowska Bogna – Coś, które nadchodzi. Architektura XXI wieku, Warszawa 2011
20	Le Corbusier – W stronę architektury, Warszawa 2013
21	Lynch Kevin – Obraz miasta, 2011
22	Leśniakowska Marta – Co to jest architektura, Warszawa 1999
22	Rasmussen SteenEiler – Odczuwanie architektury, Warszawa 1999
24	(red) Risselada Max – Raumplan versus Plan Libre, Delft 1988
25	Trzeciak Przemysław – Historia, psychika, architektura, Warszawa 1988
26	Wallis Mieczysław – Secesja, Warszawa1984
27	Wisłocka Izabella – Awangardowa architektura polska, Warszawa 1968

Student workload	
Student activity form	**Average number of hours needed to complete the activity**
Contact hours with the lecturer, including:	**15**
Lectures participation	15

Student self-study, including:	**10**
Preparing to credit	10
Total student workload	**25**
Total ECTS credits for the subject:	**1**

Learning outcomes matrix					
Symbol of the learning outcome for the course	**Reference of a particular learning outcome to outcomes defined for the field of study together with the degree of correlation**	**Course objectives**	**Course content**	**Teaching methods**	**Methods of assessment**
EK 1	A2A_W03 +++ A2A_W04 + A2A_W12 ++	C1-5	W1-14	1-2	O1-2
EK 2	A2A_W03 +++ A2A_W04 + A2A_W12 ++	C1-5	W1-14	1-2	O1-2
EK 3	A2A_W03 +++ A2A_W04 + A2A_W12 ++	C1-5	W1-14	1-2	O1-2
EK 4	A2A_W03 +++ A2A_W04 + A2A_W12 ++	C1-5	W1-14	1-2	O1-2
EK 5	A2A_W03 ++ A2A_W04 +++ A2A_W12 +++	C1-5	W1-14	1-2	O1-2
EK 6	A2A_W04 +++ A2A_W20 +++	C1-5	W1-14,	1-2	O1-2
EK 7	A2A_K03 ++ A2A_K04 ++ A2A_K08 ++ A2A_K09 ++	C1-5	W1-14	1-2	O1-2

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Course syllabus
Field of study: Architecture
Second-cycle study

Course:	History and theory of contemporary architecture and urban planning
Type of course:	Course from group B.1.
Code of course:	IIB.1.1.a.
Year:	I
Semester:	II
Mode of study:	Full-time
Form of classes and number of contact hours per semester:	30
Lecture	15
Classes	15
Laboratory	-
Project	-
Number of ECTS credits:	2
Form of assessment:	Lecture – exam
Language of instruction:	Polish

Course objectives	
C1	Recognizing and interpreting the timeless inexhaustible sources of architectural and urban structures and forms.
C2	Developing the ability to use an understandable language to communicate the problems of architectural and urban solutions
C3	Developing the ability to apply concepts and ideas from the field of philosophy, sociology, psychology and art in the urban and architectural contexts
C4	Acquiring knowledge on the conditions of development and cultural context of contemporary architecture
C5	Acquiring and developing knowledge concerning principles and goals of formulating and expressing student's own individual and collective views on architecture and urban planning

Preliminary requirements in terms of knowledge, skills and other competencies	
1	Knowledge and skills of how to recognize, design and interprete basic spatial relations within the city
2	Required knowledge and skills in the field of recognition, design and interpretation of spatial relations within buildings

Learning outcomes	
	In terms of knowledge:
EK 1	Has structured knowledge of various aspects of the theory of contemporary world architecture in the particular cultural context
EK 2	Knows the relationship between architecture and other arts, as well as the currents of thought that gave rise to them

EK 3	Knows many different theoretical statements relating to architecture and urban planning
EK 4	Has extended knowledge of the history and theory of architecture, the theory of urban planning with its references in the field of fine arts, technical sciences, social sciences and humanities
	In terms of skills:
EK 5	Has the ability to critically evaluate the contemporary approach to design
EK 6	Knows and understands the principles of critical evaluation of the contemporary approach to architectural design
	In terms of social competence:
EK 7	Is prepared to deliver a synthetic and engaging speech on a given topic
EK 8	Is ready to independently supplement and expand his/her knowledge of modern trends in architecture and urban planning

Course content	
Form of classes – lecture	
	Course content
W1	Building houses and cities in the 20th century. Introduction to the epoch and the subject matter. Years 1990-2020. Sustainable urban planning
W2	The invisible world order as a source of architectural structures. Work and philosophy of the architecture by Louis Kahn
W3	Years 1900-1925. Architecture. Searching for new principles of building the human world. Revolutionary artistic trends. Bauhaus school. Constructivism, purism, national functionalisms, national styles, locality. Hassan Fathy
W4	Years 1900-1930. Urban planning. A great modern city for everyone. Urban Planning by Tony Garnier. Le Corbusier's radiant city. Functional city. Modern urban planning based on a reduced vision of the man and a "brave new world". Ernst May
W5	Years 1925-1950. Architecture. Pluralism of modern architecture offer. Brick architecture in Germany. Modernized classicisms and historicisms: Russian, German and Polish. Jože Plečnik. Böhm
W6	Years 1930-1960. Classical and functionalist urban planning in a sharp dispute. Socialist realism. Italian and German cities. Greater Berlin Plan. Belarusian Minsk
W7	The spiritual essence of the building - the architecture of Mies van der Rohe
W8	Years 1950-1990. Unsustainable urban planning. Death of the street. Death of the quarter, the disintegration of the city form. American suburbs and "American lifestyle". "Historically informed" town planning. Back to the sources. New urbanism as a new responsibility for the cohesion of the world
W9	Architecture of Alvar Aalto. Openness and susceptibility of architectural forms to the influence of nature, local folk culture and forms of nature. Scandinavian architecture of the 21st century
W10	Polish Architecture in search of identity 1918-1939
W11	Polish urban planning in search of identity 1918-1939
W12	Polish Architecture in search of identity 1939-2018
W13	Polish urban planning in search of identity 1939-2018
W14	Towards sustainable and complete (integral) urban planning and architecture
	Form of classes - classes

	Course content
CW1	Pattern room. Steal creatively. Creativity workshops for architects. Austin Kleon's Creative Theft. The essence of architecture. Text by Jorn Utzon; . Architect's viewfinder. How is an architect different from an engineer? Text by Romuald Miller. Reading the Master Plan and the dead phone
CW2	Relationships at house. Relationships in the apartment. Convenience. Individuals and family community. House, a short review of Witold Rybczyński's idea. Household values
CW3	Relationships in the neighborhood. Relations in the city. How close is it possible to live and why? Neat streets and cozy backyards. Urban values
CW4	House relations - people relations. A space for meeting, conversation and conflict. Workshops. Christopher Alexander's Pattern Language
CW5	The gods of architecture and their family relations - identification and relations of the forces governing architecture. Famous statements of the great architects of the 20th century.
CW6	The gods of town planning and their family relations - identification and relations of the forces governing the city construction. Manifesto of the Academy of Urbanism
CW7	The sustainable and the unsustainable - workshops on architectural and urban balance. Architecture integrity. Integrity of the city. Wilber's integral theory
CW8	Architectural assertiveness. Fencing workshops. Setting boundaries. Closing and opening the city
CW9	The space-time of architecture and the city. Corridors. Distances: walks and travels: on foot, by bike, by bus, by tram, by rail - workshops on travelling
CW10	Emotional maps. City mapping workshop. Kevin Lynch's theory
CW11	Measurement and accounting workshop. Bills for architects. Bills for town planners. Arithmetics for architects by Czesław Bielecki
CW12	Psychological workshop. The theory of strokes in architecture and urban planning. What are people playing? Eric Berne. Sensual architecture
CW13	Sociological workshop. Alexander Wallis' theory of cultural space. Bohdan Jałowiecki, M.S. Szczepański, City and space in a sociological perspective
CW14	Gods of architecture and their family relations - identification and relations of the forces governing architecture. Famous statements of great architects
CW15	The gods of town planning and their family relations - identification and relations of the forces governing the city construction. Manifesto of the Academy of Urbanism
CW16	Architectural linguistics - What do houses say to us and in what languages - Generations of one city Jacques Derrida
CW17	Urban linguistics - What does the city say to us and in what languages - Generations of one city by Jacques Derrida
CW18	Existential foundations of architecture and urban planning. Architecture and urban planning as concretization of existential space. Christian Norberg Schulz's theory

Teaching methods	
1	Seminars in the form of a workshop based on the reading texts
2	Traditional lectures with the use of architectural drawings, buildings photos, reproductions of archival photographs and works of art, and quotes from architects, architecture critics, historians, writers, and journalists

3	Conversational fragments of lectures

Methods and criteria of assessment		
Symbol of the assessment method	**Description of the assessment method**	**Passing threshold**
O1	Written or oral exam	60%
O2	Discussion moderation	Formative assessment (no passing threshold)
O3	Class participation	Formative assessment (no passing threshold)

Required reading	
1	Alexander Christopher – Język wzorców. Miasta, budynki, konstrukcja, Gdańsk 2008
2	Jacobs Jane – Śmierć i życie wielkich miast Ameryki, Warszawa 2014
3	Banham Reyner – Rewolucja w architekturze, Warszawa 1979
4	Blake Peter – Mies van der Rohe – Architektura i struktura, Warszawa 1991
5	Jencks Charles – Ruch nowoczesny w architekturze, Warszawa 1987
6	Jencks Charles – Architektura postmodernistyczna, Warszawa 1987
7	Wujek Jakub – Mity i utopie architektury XX wieku, Warszawa 1986
8	Dokąd zmierza architektura ? Wydawnictwo MURATOR, Warszawa 2005
9	Bielecki Czesław – Gra w miasto, Warszawa 1996
10	(red) Budak Adam – Co to jest architektura, Kraków 2008
11	Gehl Jan – Życie między budynkami. Warszawa 2011
12	Giedion Sigfried– Przestrzeń, czas, architektura. Narodziny nowej tradycji. Warszawa 1968
13	Ghirardo Diane – Architektura po modernizmie, Wrocław 1999
14	Hansen Oskar – Ku Formie Otwartej, Warszawa 2005
15	Jencks Charles – Architektura późnego modernizmu, Warszawa 1989
16	Krier Leon – Architektura wspólnoty, Gdańsk 2011
17	Rybczyński Witold – Dom. Krótka historia idei, Warszawa 1996
18	(red) Świątkowska Bogna – Coś, które nadchodzi. Architektura XXI wieku, Warszawa 2011
19	Koolhaas Rem, Mau Bruce – SMLXL, New York1995
20	Lynch Kevin – Obraz miasta, 2011
21	Leśniakowska Marta – Co to jest architektura, Warszawa 1999
22	Rasmussen SteenEiler – Odczuwanie architektury, Warszawa 1999
22	Springer Filip – Źle urodzone. Reportaże o architekturze PRL-u, Kraków 2011
24	Trzeciak Przemysław – Historia, psychika, architektura, Warszawa 1988
25	Wisłocka Izabella – Awangardowa architektura polska, Warszawa 1968
26	De Graaf Reinier – Cztery ściany i dach. Złożona natura prostej profesji, Kraków – Warszawa 2019
27	Derrida Jacques - Pokolenia jednego miasta, przeł. W. Szydłowska, w: „Lettre internationale”, zima 1993/1994
28	Manifest Academy of Urbanism
29	Bielecki Czesław - Arytmetyka dla architektów

30	Norberg Schulz Christian - Bycie przestrzeń architektura
31	Berne Eric – W co grają ludzie

Student workload	
Student activity form	**Average number of hours needed to complete the activity**
Contact hours with the lecturer, including:	**30**
Lectures	15
Classes	15
Student self-study, including:	**20**
Class preparation	13
Exam preparation	7
Total student workload	**50**
Total ECTS credits for the subject:	**2**

Learning outcomes matrix					
Symbol of the learning outcome for the course	**Reference of a particular learning outcome to outcomes defined for the field of study together with the degree of correlation**	**Course objectives**	**Course content**	**Teaching methods**	**Methods of assessment**
EK 1	A2A_W03 +++ A2A_W04 + A2A_W12 ++	C1-5	W1-14, CW1-18	1-3	O1-3
EK 2	A2A_W03 +++ A2A_W04 + A2A_W12 ++	C1-5	W1-14, CW1-18	1-3	O1-3
EK 3	A2A_W03 +++ A2A_W04 + A2A_W12 ++	C1-5	W1-14, CW1-18	1-3	O1-3
EK 4	A2A_W03 +++ A2A_W04 + A2A_W12 ++	C1-5	W1-14, CW1-18	1-3	O1-3
EK 5	A2A_U01 ++ A2A_U02 ++ A2A_U11 ++ A2A_U12 ++	C1-5	W1-14, CW1-18	1,3	O1-3
EK 6	A2A_U01 ++ A2A_U02 ++ A2A_U11 ++ A2A_U12 ++	C1-5	W1-14, CW1-18	1,3	O1-3
EK 7	A2A_K03 ++ A2A_K04 ++ A2A_K08 ++ A2A_K09 ++	C1-5	W1-14, CW1-18	1,3	O1-3

EK 8	A2A_K03 ++ A2A_K04 ++ A2A_K08 ++ A2A_K09 ++	C1-5	W1-14, CW1-18	1,3	O1-3

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Organizational unit:	Department of Architecture and Urban Planning

Course syllabus
Field of study: Architecture
Second-cycle study

Course:	Historical conditions of contemporary architecture and urban planning
Type of course:	Course from group B.1.
Code of course:	IIB.1.1.b.
Year:	I
Semester:	I
Mode of study:	Full-time
Form of classes and number of contact hours per semester:	15
Lecture	15
Classes	-
Laboratory	-
Project	-
Number of ECTS credits:	1
Form of assessment:	Lecture – credit
Language of instruction:	Polish

Course objectives	
C1	Recognizing and interpreting the timeless inexhaustible sources of architectural and urban structures and forms
C2	Developing the ability to use an understandable language to communicate the problems of architectural and urban solution
C3	Developing knowledge in the field of philosophy, sociology, psychology and art applied to urban and architectural issues
C4	Acquiring knowledge of the conditions for the emergence and cultural context of contemporary architecture
C5	Acquiring and developing knowledge about the principles and goals of formulating and expressing one's own individual and group views on architecture and urban planning

Preliminary requirements in terms of knowledge, skills and other competences	
1	Knowledge and skills in recognizing, designing and interpreting basic spatial relations in the city
2	Required knowledge and skills in the field of recognition, design and interpretation of spatial relations in buildings

Learning outcomes	
	In terms of knowledge:
EK 1	Has structured knowledge of various aspects of the theory of contemporary world architecture and the accompanying cultural context
EK 2	knows the relationship of architecture with other arts, as well as the currents of thought which are their basis

EK 3	Knows a number of different theoretical statements relating to architecture and urban planning
EK 4	Has extended knowledge of the history and theory of architecture, the theory of urban planning with its connections in the field of fine arts, technical sciences, social sciences and humanities
EK 5	Knows and understands the principles of critical evaluation of the contemporary approach to architectural design
EK 6	Has a structured knowledge of theoretical and formal inspirations in today's architecture
	In terms of social competence:
EK 7	is ready to independently complete and expand his knowledge of modern trends in architecture and urban planning

Course content	
Form of classes – lecture	
	Course content
W1	Historical conditions for building houses and cities. Introduction to the subject matter
W2	Historical references to nature. Nature as a source of architectural structures. The work of Frank Lloyd Wright - organic architecture
W3	Historical styles as a reference for contemporary content. Choosing styles for expressing cultural content. Historicist Architecture in the 19th Century
W4	Timelessness and versatility of the ancient rectangular mesh pattern. Chaos on the chessboard. Geometric sources of order. Urban planning by Ildefons Cerdy. Barcelona
W5	Historical foundations of pluralism in architecture. Freedom to mix styles. Eclectic architecture at the end of the 19th century. Great public buildings
W6	Historical pattern of multifunctionality. Modern multi-functional streets - boulevards, passages, old city regulations. Urban planning in the second half of the 19th century - reconstruction of cities. Paris by Hausman, Milan and Florence
W7	Historical references to nature. Nature as a source of forms. Vienna Secession, French Art Nouveau, Spanish Modernismo
W8	Historical references for multi-functionality. Classic compositions of multi-functional districts. Urban planning in the second half of the 19th century - expansion of cities. Vienna - rings. Berlin - Joseph Stübben
W9	Historical relations of architecture with the landscape. The Architecture of the Art's and Crafts Movement: Garden Houses in a Landscape. Wiliam Morris Edwin Lutyens, Gertrude Jekyll, Baillie Scott, C.F.A. Voysey
W10	Historical relations of architecture with the landscape. Village and city. Natural landscapes in the city. Squares. Garden cities and patron cities. Nikiszowiec and Giszowiec. Ebenezer Howard's theories
W11	Historical relations of novelty and identity - Amsterdam School. Geometric abstraction as a source of forms. Gerit Rietveld
W12	Historical evidence that modernism was not the only option. Districts for workers. Successful housing reforms. Amsterdam South District

W13	Historical attempts to redefine the approach to shaping the home space. Adolf Loos's Raumplan and Le Corbusier's free plan. Futurists
W14	Historical combination of traditional and modern look. Third Way UrbanPlanning. Houses like quarters. Social courtyards. Red Vienna

Teaching methods	
1	Traditional lectures using architectural drawings, photos of buildings, reproductions of archival photographs and works of art, and quotes from architects, architecture critics, historians, writers and journalists
2	Lecture excerpts of conversatory character

Methods and criteria of assessment		
Symbol of the assessment method	**Description of the assessment method**	**Passing threshold**
O1	Credit	60%
O2	Activity during classes	Formative assessment (no pass threshold)

Required reading	
1	Alexander Christopher – Język wzorców. Miasta, budynki, konstrukcja, Gdańsk 2008
2	BanhamReyner – Rewolucja w architekturze, Warszawa 1979
3	Blake Peter – Mies van der Rohe – Architektura i struktura, Warszawa 1991
4	Jencks Charles – Le Corbusier – tragizm współczesnej architektury, Warszawa 1982
5	Jencks Charles – Ruch nowoczesny w architekturze, Warszawa 1987
6	Wujek Jakub – Mity i utopie architektury XX wieku, Warszawa 1986
7	Dokąd zmierza architektura ? Wydawnictwo MURATOR, Warszawa 2005
8	Bielecki Czesław – Gra w miasto, Warszawa 1996
9	(red) Budak Adam – Co to jest architektura, Kraków 2008
10	Droste Magdalena – Bauhaus, Kolonia 2006
11	Gehl Jan – Życie między budynkami. Warszawa 2011
12	Giedion Sigfried– Przestrzeń, czas, architektura. Narodziny nowej tradycji. Warszawa 1968
13	Fest Joachim – Speer. Biografia, Kraków 2001
14	Hansen Oskar – Ku Formie Otwartej, Warszawa 2005
15	Hensbergen Gijs – Gaudi, Poznań 2003
16	Jencks Charles – Architektura późnego modernizmu, Warszawa 1989
17	Krier Leon – Architektura wspólnoty, Gdańsk 2011
18	Rybczyński Witold – Dom. Krótka historia idei, Warszawa 1996
19	(red) Świątkowska Bogna – Coś, które nadchodzi. Architektura XXI wieku, Warszawa 2011
20	Le Corbusier – W stronę architektury, Warszawa 2013
21	Lynch Kevin – Obraz miasta, 2011
22	Leśniakowska Marta – Co to jest architektura, Warszawa 1999
23	Rasmussen SteenEiler – Odczuwanie architektury, Warszawa 1999
24	(red) Risselada Max – Raumplan versus Plan Libre, Delft 1988
25	Trzeciak Przemysław – Historia, psychika, architektura, Warszawa 1988

26	Wallis Mieczysław – Secesja, Warszawa 1984
27	Wisłocka Izabella – Awangardowa architektura polska, Warszawa 1968

Student workload	
Student activity form	**Average number of hours needed to complete the activity**
Contact hours with the lecturer, including:	**15**
Participation in lectures	15
Student self-study, including:	**10**
Preparation for the credit	10
Total student workload	**25**
Total ECTS credits for the subject:	**1**

Learning outcomes matrix					
Symbol of the learning outcome for the course	**Reference of a particular learning outcome to outcomes defined for the field of study together with the degree of correlation**	**Course objectives**	**Course content**	**Teaching methods**	**Methods of assessment**
EK 1	A2A_W03 +++ A2A_W04 + A2A_W12 ++	C1-5	W1-14	1-2	O1-2
EK 2	A2A_W03 +++ A2A_W04 + A2A_W12 ++	C1-5	W1-14	1-2	O1-2
EK 3	A2A_W03 +++ A2A_W04 + A2A_W12 ++	C1-5	W1-14	1-2	O1-2
EK 4	A2A_W03 +++ A2A_W04 + A2A_W12 ++	C1-5	W1-14	1-2	O1-2
EK 5	A2A_W03 ++ A2A_W04 +++ A2A_W12 +++	C1-5	W1-14	1-2	O1-2
EK 6	A2A_W04 +++ A2A_W20 +++	C1-5	W1-14	1-2	O1-2
EK 7	A2A_K03 ++ A2A_K04 ++ A2A_K08 ++ A2A_K09 ++	C1-5	W1-14	1-2	O1-2

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Organizational unit:	Department of Urban Architecture and Spatial Planning

Course syllabus
Field of study: Architecture
Second-cycle study

Course:	Historical conditions of architecture and contemporary urban planning
Type of course:	Course from group B.1.
Code of course:	IIB.1.1.b.
Year:	I
Semester:	II
Mode of study:	Full-time
Form of classes and number of contact hours per semester:	30
Lecture	15
Classes	15
Laboratory	-
Project	-
Number of ECTS credits:	2
Form of assessment:	Lecture – exam
Language of instruction:	Polish

Course objectives	
C1	Recognizing and interpreting the timeless inexhaustible sources of architectural and urban structures and forms
C2	Developing the ability to use an understandable language to communicate the problems of architectural and urban solutions
C3	Developing the ability to use concepts and ideas in the field of philosophy, sociology, psychology and art applied to urban and architectural issues
C4	Acquiring knowledge of the conditions for the emergence and cultural context of contemporary architecture
C5	Acquiring and developing the skills of independent and group intellectual work on issues related to the principles and goals of architecture and urban planning, as well as formulating and expressing one's own individual and group views

Preliminary requirements in terms of knowledge, skills and other competencies	
1	Knowledge and skills in recognizing, designing and interpreting basic spatial relations in the city
2	Required knowledge and skills in the field of recognition, design and interpretation of spatial relations in buildings

Learning outcomes	
	In terms of knowledge:
EK 1	Has structured knowledge of various aspects of the theory of contemporary world architecture and the accompanying cultural context

EK 2	Knows the relationship of architecture with other arts, as well as the currents of thought which are their basis
EK 3	Knows a number of different theoretical statements relating to architecture and urban planning
EK 4	Has extended knowledge of the history and theory of architecture, the theory of urban planning with its connections in the field of fine arts, technical sciences, social sciences and humanities
	In terms of skills:
EK 5	Can critically evaluate the contemporary approach to design
EK 6	Recognizes theoretical and formal inspirations in today's architecture
	In terms of social competence:
EK 7	Is ready for a synthetic and engaging speech on a given topic
EK 8	Is ready to independently supplement and expand the knowledge of modern trends in architecture and urban planning

Course content	
Form of classes – lecture	
	Course content
W1	The history of building houses and cities in the 20th century and building houses today. Introduction to the epoch and the subject matter. 1990-2020. Sustainable urbanism
W2	Conditions resulting from the invisible world order as a source of architectural structures. Creativity and philosophy of architecture by Louis Kahn
W3	Historical avant-garde. The years 1900-1925. Architecture. Searching for new principles of building the human world. Revolutionary artistic trends. Bauhaus school. Constructivism, purism, national functionalisms, national styles, locality. Hassan Fathy
W4	Historical conditions of a modern city. The years 1900-1930. Urban planning. A great modern city for everyone. Urban Planning by Tony Garnier. Le Corbusier's radiant city. Functional city. Modern urban planning based on a reduced vision of a man and a "brave new world". Ernst May
W5	Apart from historically conditioned determinism. The years 1925-1950. Architecture. Pluralism of modern architecture proposals. Brick architecture in Germany. Modernized classicisms and historicisms: Russian, German and Polish. Jože Plečnik. Böhm
W6	Historical discourse between two directions of urban planning. The years 1930-1960. Classical and functionalist urban planning in a sharp dispute. Socialist realism. Italian and German cities. Greater Berlin Plan. Belarusian Minsk
W7	The spiritual dimension of historical conditions. The spiritual essence of building - the architecture of Mies van der Rohe
W8	Historic triumph of modernist urbanism and its retreat. 1950-1990. Unsustainable urban planning. Death of the street. The death of the quarter. The disintegration of the city's form. American suburbs and "american style of life". "Historically informed" town planning. Back to the sources. New urbanism as a new responsibility for the cohesion of the world

W9	Historical conditions and the nature and folk culture. Architecture of Alvar Aalto. Openness and susceptibility of architectural forms to the influence of nature, local folk culture and forms of nature. Scandinavian architecture of the 21st century
W10	Historical determinants of the identity of Polish architecture. Search 1918-1939
W11	Historical determinants of the identity of Polish urban Planning. Search 1918-1939
W12	Historical determinants of the identity of Polish architecture. Search 1939-2020
W13	Historical determinants of the identity of Polish urban planning. Search 1939-2020
W14	From historical conditions to urban planning and sustainable and complete (integral) architecture
Form of classes - class	
	Course content
CW1	Historical conditioning of inspiration. Pattern room. Steal creatively. Creativity workshops for architects. Austin Kleon's Creative Theft. The essence of architecture. Text by Jorn Utzon; . Architect's viewfinder. How is an architect different from an engineer? Text by Romuald Miller. Master Plan Reading and Deaf Phone
CW2	House - historical conditions. Relationships at home. Relationships in the apartment. Convenience. Individuals and family community. The House, a short history of Witold Rybczyński's idea. Household values
CW3	Historical conditions of the neighborhood. Relationships in the neighborhood. Relations in the city. How close can you live and why? Neat streets and cozy backyards. City values
CW4	Patterns - historical and timeless conditions. House relations - people's relations. Space for meetings, conversations, conflicts. Workshops. Christopher Alexander's Pattern Language
CW5	Historical conditions of individual influence. The gods of architecture and their family relations - identification and relations of the forces governing architecture. Famous sayings of the great architects of the 20th century
CW6	Historical conditioning of individual influence. The gods of urban planning and their family relations - identification and relations of the forces governing the construction of the city. Manifesto of the Academy of Urbanism
CW7	Historical determinants of relations. Sustainable and unsustainable - workshops on architectural and urban balance. Architecture integrity. Integrity of the city. Wilber's integral theory
CW8	Historical determinants of relations. Architectural assertiveness. Fencing workshops. Setting boundaries. Closing and opening the city
CW9	Space-time - a timeless and historical dimension. The space-time of architecture and the city. Corridors. Distances: walks and travels: on foot, by bike, by bus, by tram, by rail - travel workshops
CW10	Historical conditioning of emotions. Emotional maps. City mapping workshop. Kevin Lynch's theory
CW11	The history of remembering and forgetting specifics. Measurement and accounting workshop. Bills for architects. Bills for urban planners. Arithmetic for architects by Czesław Bielecki
CW12	Historical psychological conditions. Psychological workshop. The theory of strokes in architecture and urban planning. What are people playing? Eric Berne. Sensual architecture

CW13	Historical sociological conditions. Sociological workshop. Alexander Wallis' theory of cultural space. Bohdan Jałowiecki, M.S. Szczepański, City and space in a sociological perspectiv
CW14	Historical linguistic conditions. Architectural linguistics - What do houses say to us and in what languages - Generations of one city by Jacques Derrid
CW15	Historical linguistic conditions. Urban linguistics - What does the city say to us and in what languages - Generations of one city by Jacques Derrida
CW16	Historical meaning of existentialism. Existential foundations of architecture and urban planning. Architecture and urban planning as concretization of existential space. Christian Norberg Schulz's theory

Teaching methods	
1	Seminars conducted using the workshop method based on text reading
2	Traditional lectures using architectural drawings, photos of buildings, reproductions of archival photographs and works of art, and quotes from architects, architecture critics, historians, writers, and journalists
3	Conversational lecture

Methods and criteria of assessment		
Symbol of the assessment method	**Description of the assessment method**	**Passing threshold**
O1	Exam	60%
O2	Discussion moderation	Formative assessment (no pass threshold)
O3	Activity during classes	Formative assessment (no pass threshold)

Required reading	
1	Alexander Christopher – Język wzorców. Miasta, budynki, konstrukcja, Gdańsk 2008
2	Jacobs Jane – Śmierć i życie wielkich miast Ameryki, Warszawa 2014
3	BanhamReyner – Rewolucja w architekturze, Warszawa 1979
4	Blake Peter – Mies van der Rohe – Architektura i struktura, Warszawa 1991
5	Jencks Charles – Ruch nowoczesny w architekturze, Warszawa 1987
6	Jencks Charles – Architektura postmodernistyczna, Warszawa 1987
7	Wujek Jakub – Mity i utopie architektury XX wieku, Warszawa 1986
8	Dokąd zmierza architektura ? Wydawnictwo MURATOR, Warszawa 2005
9	Bielecki Czesław – Gra w miasto, Warszawa 1996
10	(red) Budak Adam – Co to jest architektura, Kraków 2008
11	Gehl Jan – Życie między budynkami. Warszawa 2011
12	Giedion Sigfried– Przestrzeń, czas, architektura. Narodziny nowej tradycji. Warszawa 1968
13	Ghirardo Diane – Architektura po modernizmie, Wrocław 1999
14	Hansen Oskar – Ku Formie Otwartej, Warszawa 2005
15	Jencks Charles – Architektura późnego modernizmu, Warszawa 1989
16	Krier Leon – Architektura wspólnoty, Gdańsk 2011

17	Rybczyński Witold – Dom. Krótka historia idei, Warszawa 1996
18	(red) Świątkowska Bogna – Coś, które nadchodzi. Architektura XXI wieku, Warszawa 2011
19	Koolhaas Rem, Mau Bruce – SMLXL, New York1995
20	Lynch Kevin – Obraz miasta, 2011
21	Leśniakowska Marta – Co to jest architektura, Warszawa 1999
22	Rasmussen SteenEiler – Odczuwanie architektury, Warszawa 1999
22	Springer Filip – Źle urodzone. Reportaże o architekturze PRL-u, Kraków 2011
24	Trzeciak Przemysław – Historia, psychika, architektura, Warszawa 1988
25	Wisłocka Izabella – Awangardowa architektura polska, Warszawa 1968
26	De Graaf Reinier – Cztery ściany i dach. Złożona natura prostej profesji, Kraków – Warszawa 2019
27	Derrida Jacques - Pokolenia jednego miasta, przeł. W. Szydłowska, w: „Lettre internationale", zima 1993/1994
28	Manifest Academy of Urbanism
29	Bielecki Czesław - Arytmetyka dla architektów
30	Norberg Schulz Christian - Bycie przestrzeń architektura
31	Berne Eric – W co grają ludzie

Student workload	
Student activity form	**Average number of hours needed to complete the activity**
Contact hours with the lecturer, including:	**30**
Participation in lectures	15
Participation in exercises	15
Student self-study, including:	**20**
Preparation for exercises	13
Preparation for the exam	7
Total student workload	**50**
Total ECTS credits for the subject:	**2**

Learning outcomes matrix					
Symbol of the learning outcome for the course	**Reference of a particular learning outcome to outcomes defined for the field of study together with the degree of correlation**	**Course objectives**	**Course content**	**Teaching methods**	**Methods of assessment**
EK 1	A2A_W03 +++ A2A_W04 + A2A_W12 ++	C1-5	W1-14, CW1-16	1-3	O1-3
EK 2	A2A_W03 +++ A2A_W04 + A2A_W12 ++	C1-5	W1-14, CW1-16	1-3	O1-3
EK 3	A2A_W03 +++ A2A_W04 + A2A_W12 ++	C1-5	W1-14, CW1-16	1-3	O1-3

EK 4	A2A_W03 +++ A2A_W04 + A2A_W12 ++	C1-5	W1-14, CW1-16	1-3	O1-3
EK 5	A2A_U01 ++ A2A_U02 ++ A2A_U11 ++ A2A_U12 ++	C1-5	W1-14, CW1-16	1, 3	O1-3
EK 6	A2A_U01 ++ A2A_U02 ++ A2A_U11 ++ A2A_U12 ++	C1-5	W1-14, CW1-16	1, 3	O1-3
EK 7	A2A_K03 ++ A2A_K04 ++ A2A_K08 ++ A2A_K09 ++	C1-5	W1-14, CW1-16	1, 3	O1-3
EK 8	A2A_K03 ++ A2A_K04 ++ A2A_K08 ++ A2A_K09 ++	C1-5	W1-14, CW1-16	1, 3	O1-3

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Organizational unit:	Department of Architecture, Urban Planning and Spatial Planning

Course syllabus
Field of study: Architecture
Second-cycle study

Course:	Protection of monuments and historic towns
Type of course:	Course from group B.1.
Code of course:	IIB.1.2.
Year:	I
Semester:	I
Mode of study:	Full-time
Form of classes and number of contact hours per semester:	30
Lecture	15
Classes	-
Laboratory	-
Project	15
Number of ECTS credits:	2
Form of assessment:	Lecture - credit, project - credit
Language of instruction:	Polish

Course objectives	
C1	Acquiring basic knowledge concerning the principles of protection of immovable monuments and forms of protection of historic towns
C2	Acquiring the skills of multi-aspect analyses of historic urban complexes
C3	Acquiring knowledge concerning the categories of conservation measures which can be implemented in order to protect the cultural identity of historic towns, with particular emphasis on the principles of revitalisation processes.

Preliminary requirements in terms of knowledge, skills and other competencies	
1	Knowledge of the history of urban planning and the ability to analyse historic buildings and historic urban complexes
2	Knowledge of the functioning and development mechanisms of modern cities

Learning outcomes	
	In terms of knowledge:
EK 1	Has extended knowledge about the history and theory of architecture, theory of urban planning, fine arts, technical sciences and humanities. He/she defines and identifies basic terms and principles connected with the protection and revitalisation of historical towns
EK 2	Knows and understands the principles of shaping the space of cities and regions. He/she names and characterizes the principles of historical cities analysis (from the historical and functional point of view)
EK 3	Knows the principles and methods of the architectural protection of historical buildings, historical urban complexes and cultural landscape. He/she names and can analyse the rules of legal forms of monument protection.
	In terms of skills:

EK 4	Is able to conduct architectural and historical research and formulate conservation conclusions. He/she selects the scope of conservation and revitalization works necessary to maintain and develop a historical complex.
EK 5	Conducts material search procedures and factor analysis to acquire the information necessary to determine the value of a complex and to plan a revitalization program
	In terms of social competence:
EK 6	Is prepared to undertake the tasks of a conservation and revitalisation programme and to carry out a specific range of works (resulting from the conservation and revitalisation needs)

Course content	
Form of classes – lecture	
	Course content
W1	Legislation and doctrinal documents in the scope of protection of historical urban planning
W2	Theoretical fundamentals of the protection and revitalisation of a historic town; the analysis of contemporary doctrines and the so called HUL 2011 Recommendations (UNESCO)
W3	The rules of reading the values of historic town foundation and the analysis of the factors influencing a historic town
W4	Principles and conditions of city revitalisation programmes implementation with indication of good examples
Form of classes - project	
	Course content
P1	Collecting data in order to carry out a detailed analysis of a selected historical urban planning and formulating the guidelines for a revitalisation concept, taking SWOT analysis into account
P2	Discussing the details of revitalisation projects and developing a project

Teaching methods	
1	Lecture with the use of multimedia presentations
2	Revision of subsequent stages of the revitalisation project
3	Project
4	Preparation of a multimedia presentation by the student

Methods and criteria of assessment		
Symbol of the assessment	**Description of the assessment method**	**Passing threshold**
O1	Written credit for lectures	75%
O2	Completion of the project	——
O3	Revision of the project	51%
O4	Defense of the project	60%
O5	Preparation of a multimedia presentation	——

Required reading	
1	Bogdanowski J., Architektura obronna w krajobrazie Polski, Warszawa – Kraków 2002

2	Ciołek G., Zarys ochrony i kształtowania krajobrazu, Wydawnictwo Arkady, Warszawa 1964
3	Gyurkovich J., Kompozycja przestrzeni miejskiej, współczesne interwencje w historycznej tkance i sylwecie, Materiały z Międzynarodowej Konferencji Konserwatorskiej, Kraków 2000
4	Krupe Michał, Panoramy miast zabytkowych – ochrona i kształtowanie, Architektura, Wydawnictwo Politechniki Krakowskiej, Kraków 2009
5	Lynch K., Obraz miasta, Cambridge 1960 i późniejsze wydania
6	Molski P., Waloryzacja dziedzictwa architektonicznego w systemie ochrony zabytków, System ochrony zabytków w Polsce – analiza, diagnoza, propozycje, red. B. Szmygin, Lublin – Warszawa 2011
7	Myczkowski Z., Krajobraz wyrazem tożsamości w wybranych obszarach chronionych w Polsce, Wydawnictwo Politechniki Krakowskiej, Kraków 1998
8	Ostrowski W., Wprowadzenie do historii budowy miast. Ludzie i środowisko, Oficyna Wydawnicza Politechniki Warszawskiej, Warszawa 2001
10	Rewers E., Tożsamość kulturowa miast: między strategiami pamięci a pokusą zapomnienia, Materiały Konferencji Naukowej: „Kierunki transformacji polskich miast u progu wstąpienia do Unii Europejskiej", Szczecin 2000
11	System ochrony zabytków w Polsce – analiza, diagnoza, propozycje, red. B. Szmygin, Lublin – Warszawa 2011
12	Szmygin B., Doktryna konserwatorska a odbudowa zabytków. Przykład miast historycznych, Postęp i nowoczesność w konserwacji zabytków, Lublin 2005
13	Szmygin B., Rekomendacja o Historycznym Krajobrazie Miejskim – wdrożenie zmiany paradygmatu w ochronie miast historycznych, Budownictwo i Architektura 12 (4), Wydawnictwo Politechniki Lubelskiej, Lublin 2015
Supplementary reading	
1	Czerepińska J., Michalska G., Studziński J., Studium historyczno – urbanistyczne miasteczek Lubelszczyzny, opr. w pos. MWL, Lublin 2004
2	Kurier Konserwatorski, nr 4, Wydawnictwo Narodowego Instytutu Dziedzictwa, Warszawa 2009, passim
3	Przyborowska – Klimczak A., Międzynarodowa ochrona niematerialnego dziedzictwa kulturalnego, Problemy Współczesnego Prawa Międzynarodowego, Europejskiego i Porównawczego, vol. III, A.D. MMV
4	Szlakami sztetli. Podróże po zapomnianym kontynencie, red. E. Majak, Wydawnictwo „Ośrodek Brama Grodzka – Teatr NN", Lublin 2015

Student workload	
Student activity form	**Average number of hours needed to complete the activity**
Contact hours with the lecturer, including:	**30**
Participation in lectures	15
Participation in project classes	15
Student self-study, including:	**5**
Preparing for lecture credit	3
Preparing for project credit	2
Total student workload	**35**
Total ECTS credits for the module/subject:	**2**

Learning outcomes matrix					
Symbol of the learning outcome for the course	**Reference of a particular learning outcome to outcomes defined for the field of study together with the degree of correlation**	**Course objectives**	**Course content**	**Teaching methods**	**Methods of assessment**
EK 1	A2A_W03 +++	C1	W2, W3	1	O1
EK 2	A2A_W14 +++	C2, C3	W2, W3, W4	1	O1
EK 3	A2A_W15 +++	C2, C3	W1, W2, W4	1	O1
EK 4	A2A_U05 +++	C2	P1, P2	2, 3, 4	O2, O3, O4, O5
EK 5	A2A_U06 +++	C2, C3	P1, P2	2, 3	O2, O3, O4
EK 6	A2A_K05 +++ A2A_K07 +++ A2A_K08 +++ A2A_K09 +++	C2, C3	W1, W2, W3, W4, P1, P2	1, 2, 3, 4	O1, O2, O3, O4, O5

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Organizational unit:	Department of Conservation of Built Heritage

Course syllabus
Field of study: Architecture
Second-cycle study

Course:	Cultural Studies
Type of course:	Course from group B.1.
Code of course:	IIB.1.3
Year:	II
Semester:	III
Mode of study:	Full-time
Form of classes and number of contact hours per semester:	15
Lecture	15
Classes	-
Laboratory	-
Project	-
Number of ECTS credits:	1
Form of assessment:	Lecture - credit
Language of instruction:	Polish

Course objectives	
C1	Obtaining extended knowledge of the relationship between architecture and humanity in the context of cultural conditions
C2	Acquainting the student with the cultural determinants of various phenomena in art and architecture, in the context of ideological, material and social differences which have a direct impact on architectural and urban design

Preliminary requirements in terms of knowledge, skills and other competencies	
1	Has knowledge of the history of architecture and urban planning
2	Has knowledge in the field of fine arts

Learning outcomes	
	In terms of knowledge:
EK 1	Knows and understands the cultural conditions of architecture and urban planning, including the relationship between humanity and architecture and between architecture and the surrounding environment
EK 2	Has extensive knowledge of the history of culture and general art as well as Polish art
EK 3	Has knowledge of history, history of architecture, history of art with the knowledge of culture understood as the entirety of the spiritual and material heritage of the society. He knows the relations with the process of architectural design and cultural conditions
	In terms of social competence:
EK 4	Is ready to respect the diversity of views and cultures in the context of the social dimension of the architectural profession
EK 5	Is ready to form an opinion on the phenomena in space caused by the actions of an architect and an urban planner in the context of cultural conditions

Course content	
Form of classes – lecture	
	Course content
W1	Diversity in understanding culture. The main areas of culture
W2	Development of culture. Polish culture against the background of European culture
W3	Material and non-material culture. Levels of cultural phenomena
W4	Culture and civilization. The temporal and spatial nature of culture
W5	Diversity of cultures - discussion of the issue
W6	Beauty and ugliness
W7	Museology and art galleries. Collecting and the art market. A visit to an art gallery or a cultural institution
W8	Literature and theatre. Criticism

Teaching methods	
1	Conversational and traditional lectures with the use of multimedia presentations, visiting cultural institutions, didactic discussion
2	Development of a given research issue, e.g. collection of background materials, presenting them in writing
3	Discussion of sets of tasks prepared for individual lectures

Methods and criteria of assessment		
Symbol of the assessment method	**Description of the assessment method**	**Passing threshold**
O1	Written credit - assessment of a written assignment	60%
O2	Oral credit - didactic discussion related to the lecture	Formative assessment (no pass threshold)
O3	Activity in the classroom	Formative assessment (no pass threshold)

Required reading	
1	Białostocki J., Sztuka cenniejsza niż złoto. Opowieść o sztuce europejskiej naszej ery, Warszawa 1991
2	Eco U., Historia brzydoty, Rebis 2018
3	Eco U., Historia piękna, Dom wydawniczy REBIS Poznań, 2005
4	Encyklopedia kultury polskiej. T1, pojęcia i problemy wiedzy o kulturze, Wrocław 1991
5	Filipiak M., Socjologia kultury. Zarys zagadnień, Lublin 1996
6	Sennet R., Ciało i kamień. Człowiek i miasto w cywilizacji zachodu. Warszawa 2015
7	Sztuka świata, t. 1-10, Warszawa 1992-1998
Supplementary reading	
1	Modzelewski K., Europa barbarzyńska, Warszawa 2004
2	Panofsky E., Studia z historii sztuki, tłum. J. Białostocki, K. Kamińska i in., Warszawa 1971
3	Piwocki K., Dzieje sztuki w zarysie, Warszawa 1987
4	Thompson J., Jak czytać ,malarstwo współczesne. Od Courbeta do Warhola, Kraków 2006

Student workload	
Student activity form	**Average number of hours needed to complete the activity**
Contact hours with the lecturer, including:	**15**
Participation in lectures	15
Student self-study, including:	**10**
Preparation for the credit of the lecture	10
Total student workload	**25**
Total ECTS credits for the module/subject:	**1**

Learning outcomes matrix					
Symbol of the learning outcome for the course	**Reference of a particular learning outcome to outcomes defined for the field of study together with the degree of correlation**	**Course objectives**	**Course content**	**Teaching methods**	**Methods of assessment**
EK 1	A2A_W03 +++	C1, C2	W1, W2, W3, W4, W5, W6, W7, W8	1, 2, 3	O1, O2
EK 2	A2A_W04 +++ A2A_W03 +++	C1, C2	W1, W2, W3, W4, W5, W6, W7, W8	1, 2, 3	O1, O2
EK 3	A2A_W03 +++ A2A_W04 +++ A2A_W15 ++	C1, C2	W1, W2, W3, W4, W5, W6, W7, W8	1, 2, 3	O1, O2
EK 4	A2A_K03 ++ A2A_K07 ++	C2	W1, W2, W3, W4, W5, W6, W7, W8	1, 2, 3	O1, O2, O3
EK 5	A2A_K05 ++ A2A_K09 ++	C2	W1, W2, W3, W4, W5, W6, W7, W8	1, 2, 3	O2, O3

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Course syllabus
Field of study: Architecture
Second-cycle study

Course:	Archaeology and conservation theory
Type of course:	Course from group B.1.
Code of course:	IIB.1.4.
Year:	I
Semester:	I
Mode of study:	Full-time
Form of classes and number of contact hours per semester:	15
Lecture	15
Classes	-
Laboratory	-
Project	-
Number of ECTS credits:	1
Form of assessment:	Lecture - credit
Language of instruction:	Polish

Course objectives	
C1	Obtaining the knowledge of the basic concepts, goals and methods of conducting archaeological works as activities leading to the knowledge and protection of cultural heritage
C2	Obtaining the knowledge connected with the forms of protection and exposure of archaeological monuments on an architectural and urban scale
C3	Acquiring the knowledge connected with the rules and forms of using archaeological monuments in architectural design /restoration, reconstruction, retroversion, anastylosis

Preliminary requirements in terms of knowledge, skills and other competencies	
1	Basic knowledge of the history of general and Polish architecture
2	Knowledge of the concepts, principles and forms of protection of architectural and urban monuments
3	Knowledge of the basics of construction and architectural design

Learning outcomes	
	In terms of knowledge:
EK 1	Knows the basic concepts, objectives and principles of archaeological research
EK 2	Knows various forms of exposition and protection of archaeological heritage (archaeological monuments) in architectural and urban scale
EK 3	Knows various forms of using archaeological heritage (underground parts of objects) in architectural design.
	In terms of skills:

EK 4	Is able to critically evaluate the design concept of protection and exposition of archaeological monuments from the point of view of principles and needs of protection of historical values
EK 5	Is able to analyse and valorise the underground parts of historical objects from the point of view of their use in architectural design; formulate conclusions specifying the scope of using underground elements of historical objects in contemporary architectural design
	In terms of social competence:
EK 6	Is prepared to assess the value of protecting archaeological heritage; is prepared to protect archaeological heritage in both architectural and urban design

Course content	
Form of classes – lecture	
	Course content
W1	Basic terms and principles of archaeological research
W2	Definitions, rules and regulations concerning protection of archaeological monuments
W3	Examples of good practice in preservation and exhibition of archaeological monuments
W4	Principles and possibilities of using underground elements of historical objects in contemporary design
W5	Examples of good solutions in the use of underground elements of historical objects in contemporary objects
W6	Critical analysis of solutions not ensuring proper protection, presentation and use of archaeological monuments

Teaching methods	
1	Traditional lecture with the use of multimedia presentations to present the theoretical basis
2	Discussion of exemplary solutions
3	Written preparation of a selected issue

Methods and criteria of assessment		
Symbol of the assessment method	**Description of the assessment method**	**Passing threshold**
O1	Written credit for the lecture content	60%
O2	A written study	——

Required reading	
1	Kobyliński Z., Teoretyczne podstawy konserwacji dziedzictwa archeologicznego, Instytut Archeologii i Etnologii PAN, Warszawa 2001
2	Jaskanis D. (red), Archeologiczne Zdjęcie Polski – Metody i Doświadczenia. Próba oceny, Ośrodek Dokumentacji Zabytków, Warszawa 1996

3	Kobyliński Z. (oprac.) Międzynarodowe zasady ochrony i konserwacji dziedzictwa archeologicznego, Stowarzyszenie Naukowe Archeologów Polskich, Generalny Konserwator Zabytków, Warszawa 1998
4	Kościelecki P., Nadzór jako forma prac archeologicznych. Aspekty konserwa-torskie i metodologiczne, Warszawa 2002
Supplementary reading	
1	Kobyliński Z. (red.),Ochrona dziedzictwa archeologicznego w Europie, Warszawa 1998
2	Kajzer L., Wstęp do badan archeologiczno-architektonicznych, Uniwersytet Łódzki, Łódz, 1984
	Fagan B., Krótka historia archeologii, wyd. RM, Warszawa 2018
3	Rutkowski T. (red), O zabytkach. Opieka – Ochrona – Konserwacja, Towarzystwo Opieki nad Zabytkami, Warszawa
4	Szmygin B., Vademecum konserwatora zabytków: międzynarodowe normy ochrony dziedzictwa kultury, Polski Komitet Narodowy ICOMOS, Warszawa, 2015
5	Jażdżewski K., Ochrona zabytków archeologicznych. Zarys historyczny, PWN, Warszawa 1966
6	Zachwatowicz, J., Ochrona zabytków w Polsce, Polonia, Warszawa, 1965

Student workload	
Student activity form	**Average number of hours needed to complete the activity**
Contact hours with the lecturer, including:	**15**
Participation in lectures	15
Student self-study, including:	**10**
Preparation for the credit of the lecture	3
Preparation of a written study	7
Total student workload	**25**
Total ECTS credits for the module/subject:	**1**

Learning outcomes matrix					
Symbol of the learning outcome for the course	**Reference of a particular learning outcome to outcomes defined for the field of study together with the degree of correlation**	**Course objectives**	**Course content**	**Teaching methods**	**Methods of assessment**
EK 1	A2A_W02 ++ A2A_W07 +	C1	W1, W2	1, 2	O1, O2
EK 2	A2A_W04 ++ A2A_W15 ++	C2	W1, W2	1, 2	O1, O2
EK 3	A2A_U02 +++ A2A_U13 ++	C3	W3	2, 3	O1, O2
EK 4	A2A_U07 ++	C1, C2	W3, W4	2, 3	O1, O2
EK 5	A2A_U12 ++	C3	W4, W5	2, 3	O1, O2
EK 6	A2A_K07 ++	C1, C2, C3	W1, W2, W3, W4	1, 2, 3	O1, O2

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Organizational unit:	Department of Conservation of Built Heritage

Course syllabus
Field of study: Architecture
Second-cycle study

Course:	Management and law in the investment process
Type of course:	Course from group B.1.
Code of course:	IIB.1.5.
Year:	I
Semester:	I
Mode of study:	Full-time
Form of classes and number of contact hours per semester:	15
Lecture	-
Classes	15
Laboratory	-
Project	-
Number of ECTS credits:	1
Form of assessment:	Credit
Language of instruction:	Polish

Course objectives	
C1	Acquiring knowledge about technical and construction regulations and procedures
C2	Acquainting students with the principles of construction and use of architectural objects and organisation of the investment process
C3	Acquainting students with the procedures for predicting the period of use, data concerning the functional properties of a building, the period of existence of a building, the costs of existence of a building object.

Preliminary requirements in terms of knowledge, skills and other competencies	
1	Knowledge of general construction, building technology, investment process management, building documentation, quality management in construction
2	Knowledge of principles and ability to prepare construction cost estimates
3	Knowledge of computer programmes for word processing, drawings and engineering calculations

Learning outcomes	
	In terms of knowledge:
EK 1	Knows technical and construction regulations and procedures as well as the issues concerning the economics of design
EK 2	Knows the rules concerning the construction and usage of an architectural object and organisation of an investment process
EK 3	Has basic knowledge of management, including quality management and business operations
	In terms of skills:

EK 4	Is able to coordinate the work of a multi-discipline design team, is able to manage the work of a multi-discipline design team, cooperate with its members and discuss professional issues
	In terms of social competence:
EK 5	Is ready to act in an entrepreneurial manner and observe ethical, economic and financial principles in professional activity

Course content	
Form of classes – classes	
	Course content
CW1	The course of the investment process. Role of architects in the investment process
CW2	Coordination of branch projects, design work schedule
CW3	Basic legal acts in the investment project management process
CW4	Option analysis of the choice of design components in the aspect of the analysis of the life cycle of a construction object, including the procedures related to the prediction of the lifespan, environmental impacts, and the cost of the life cycle of a construction object

Teaching methods	
1	Multimedia presentations, including theoretical contents
2	Solving tasks and calculations necessary in the management process

Methods and criteria of assessment		
Symbol of the assessment method	**Description of the assessment method**	**Passing threshold**
O1	Written credit	60%

Required reading	
1	PN-ISO 15686-1 Budynki i budowle, planowanie okresu użytkowania część 1 Zasady ogólne
2	PN-ISO 15686-2 Budynki i budowle, planowanie okresu użytkowania część 2 Procedury związane z przewidywaniem okresu użytkowania
3	PN-ISO 15686-3 Budynki i budowle, planowanie okresu użytkowania część 3 Audyty i przeglądy właściwości użytkowych
4	PN-ISO 15686-5 Buildings and constructed assets- service life planning Part 5: Life –cycle costing
5	PN-ISO 15686-6 Budynki i budowle, planowanie okresu użytkowania część 6 Procedury związane z uwzględnieniem wpływów środowiskowych
6	PN-ISO 15686-7 Budynki i budowle, planowanie okresu użytkowania część 7 Ocena właściwości użytkowych na podstawie danych z praktyki dotyczących okresu użytkowania
Supplementary reading	
1	Wieczorek D. „Modelowanie kosztów cyklu życia budynków z uwzględnieniem czynników ryzyka” rozprawa doktorska , Instytut Zarządzania w Budownictwie, Kraków 2018
2	Bucoń R. „Model decyzyjny wyboru wariantów remontu lub przebudowy budynków mieszkalnych” Monografia Politechnika Lubelska 2017

Student workload	
Student activity form	**Average number of hours needed to complete the activity**
Contact hours with the lecturer, including:	**15**
Participation in classes	15
Student self-study, including	**15**
Preparing for the test	10
Preparing for classes	5
Total student workload:	**30**
Total ECTS credits for the module/subject	**1**

Learning outcomes matrix					
Symbol of the learning outcome for the course	**Reference of a particular learning outcome to outcomes defined for the field of study together with the degree of correlation**	**Course objectives**	**Course content**	**Teaching methods**	**Methods of assessment**
EK 1	A2A_W08 +++	C1	CW1, CW3	1, 2	O1
EK 2	A2A_W09 +++	C3	CW1, CW4	1, 2	O1
EK 3	A2A_W17 +++	C1, C2	CW2, CW4	1, 2	O1
EK 4	A2A_U17 +++	C1	CW3	1, 2	O1
EK 5	A2A_K06 ++	C2	CW1, CW2	1, 2	O1

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Course syllabus
Field of study: Architecture
Second-cycle study

Course:	Ethics of the architectural profession
Type of course:	Course from group B.1.
Code of course:	IIB.1.6.
Year:	II
Semester:	III
Mode of study:	Full-time
Form of classes and number of contact hours per semester:	15
Lecture	15
Classes	-
Laboratory	-
Project	-
Number of ECTS credits:	1
Form of assessment:	Credit
Language of instruction:	Polish

Course objectives	
C1	Acquiring advanced knowledge of the principles of the intellectual property protection, copyright law and ethics of the architectural and urban planning profession
C2	Acquisition of knowledge of professional and ethical norms and rules in architectural and urban design, and in spatial planning
C3	Acquiring knowledge and understanding of law regulations in the area of architectural and urban design and spatial planning

Preliminary requirements in terms of knowledge, skills and other competencies	
1	General knowledge of the humanities; including politics, aesthetics, philosophy, sociology, pedagogy, cultural studies
2	Knowledge of the theory of art and architecture
3	Knowledge of the types, properties and use of building materials

Learning outcomes	
	In terms of knowledge:
EK 1	Knows and understands the concepts and principles of the intellectual property protection and copyright law and ethics of the profession of an architect and an urban planner
EK 2	Knows and understands professional and ethical norms and rules as well as legal regulations within the scope of architectural and urban design and spatial planning
	In terms of social competence:
EK 3	Is prepared to correctly identify and resolve dilemmas related to the profession of an architect and an urban planner, acting in accordance with the rules of ethics of the profession of an architect and an urban planner

Course content

Form of classes – lecture	
	Course content
W1	Definitions and principles concerning the protection of intellectual property and copyright, and professional ethics of architects and urban planners
W2	Influence of architecture and urban planning on the natural and cultural environment. Ethical consequences of specific architectural and urban planning solutions - on selected examples
W3	Legal regulations, guidelines of the Union of Architects of Poland in the field of ethics, the intellectual property protection and copyright

Teaching methods	
1	Informative lecture (traditional)
2	Conversational lecture

Methods and criteria of assessment		
Symbol of the assessment method	**Description of the assessment method**	**Passing threshold**
O1	Written credit A set of test and descriptive questions	51%

Required reading	
1	Ustawa z dnia 4 lutego 1994 (Dz. U nr 24, poz. 83 Prawo autorskie i prawa pokrewne (z późniejszymi zmianami)
2	OBWIESZCZENIE MARSZAŁKA SEJMU RZECZYPOSPOLITEJ POLSKIEJ z dnia 5 kwietnia 2017 r. w sprawie ogłoszenia jednolitego tekstu ustawy o prawie autorskim i prawach pokrewnych Na podstawie art. 16 ust. 1 zdanie pierwsze ustawy z dnia 20 lipca 2000 r. o ogłaszaniu aktów normatywnych i niektórych innych aktów prawnych (Dz. U. z 2016 r. poz. 296 i 1579) ogłasza się w załączniku do niniejszego obwieszczenia jednolity tekst ustawy z dnia 4 lutego 1994 r. o prawie autorskim i prawach pokrewnych (Dz. U. z 2016 r. poz. 666), z uwzględnieniem zmian wprowadzonych
3	KODEKS ETYKI ZAWODOWEJ ARCHITEKTÓW Załącznik do Uchwały 01 III Sprawozdawczego Krajowego Zjazdu Izby Architektów podjętej w dniu 18 czerwca 2005 r
4	Rozporządzenie Ministra Finansów z dnia 11 grudnia 2003 r. w sprawie obowiązkowego ubezpieczenia odpowiedzialności cywilnej architektów oraz inżynierów budownictwa
5	Wrana J., Architektura z poszanowaniem miejsca, Wydawnictwo „Budownictwa i Architektura", WBiA PL 10(1) 2011, Lublin 2011
6	Herbert Z. Barbarzyńca w ogrodzie, Fundacja Zeszytów Literackich, Warszawa 2004
7	Zasady Etyki Zawodu Architekta Kodeks Postępowania Architekta uchwalone przez Walny Zjazd Delegatów SARP w dniu 26 października 2003 r
8	Architects' council of Europe (ACE) European deontological code for providers of architectural services, ACE 2005

Student workload	
Student activity form	**Average number of hours needed to complete the activity**

Contact hours with the lecturer, including:	**15**
Participation in lectures	15
Student self-study, including:	**10**
Preparing for the assessment	10
Total student workload	**25**
Total ECTS credits for the subject:	**1**

Learning outcomes matrix					
Symbol of the learning outcome for the course	**Reference of a particular learning outcome to outcomes defined for the field of study together with the degree of correlation**	**Course objectives**	**Course content**	**Teaching methods**	**Methods of assessment**
EK 1	A2A_W13 +++	C1	W1	1, 2	O1
EK 2	A2A_W11 ++ A2A_W13 +++	C2, C3	W2, W3	1, 2	O1
EK 3	A2A_K03 ++	C1, C2, C3	W1, W2, W3	1, 2	O1

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Course syllabus
Field of study: Architecture
Second-cycle study

Course:	Ergonomics in architectural design
Type of course:	Course from group B.1.
Code of course:	IIB.1.7.
Year:	I
Semester:	I
Mode of study:	Full-time
Form of classes and number of contact hours per semester:	15
Lecture	15
Classes	-
Laboratory	-
Project	-
Number of ECTS credits:	1
Form of assessment:	Credit
Language of instruction:	Polish

Course objectives	
C1	Expanding the knowledge of issues related to ergonomics in architectural design
C2	The ability to effectively use and shape architectural space in a manner which increases the comfort and safety of users.
C3	Focus on the anthropocentric aspect of architectural design in shaping the environment of human activity
C4	Knowledge of the specificity of unconventional spaces adapted to the individualised needs of the user.

Preliminary requirements in terms of knowledge, skills and other competencies	
1	Knowledge of the theoretical background given at the lectures in Ergonomics in architectural design in the first cycle studies
2	Theoretical knowledge of architectural objects design acquired in the first cycle studies
3	Skills related to designing objects of high complexity of conditions

Learning outcomes	
	In terms of knowledge:
EK 1	Knows and understands the relationship between man and architecture and between architecture and its surrounding environment, and the need to adapt architecture to human needs and human scale
EK 2	Knows and understands the principles of universal design, including the idea of designing spaces and buildings accessible to all users, in particular to people with disabilities, and the principles of ergonomics, including ergonomic parameters necessary to ensure full functionality of designed spaces and facilities for all users

EK 3	Knows and understands issues related to architecture in the context of the multi-discipline character of architectural design and the need for cooperation with other specialists
EK 4	Knows and understands the specific issues related to architecture in the context of optimising solutions of complex design problems.
EK 5	Knows and understands the interdisciplinary character of architectural design and the need for integration of knowledge from other fields, as well as its application in the design process in cooperation with specialists in those fields
	In terms of social competence:
EK 6	Is ready to formulate and communicate to the society information and opinions concerning achievements of architecture, their complex conditions, and other aspects of the architect's activity

Course content	
Form of classes – lecture	
	Course content
W1	Ergonomic development of the design plot, the area around the building and and service areas
W2	Optimisation solutions in the design of residential space part I
W3	Optimisation solutions in the design of residential space part II
W4	Ergonomics of retail, catering and service facilities
W5	Ergonomics of office space
W6	Design of space intended for individualised needs of the user (blind people, autistic spectrum disorders)

Teaching methods	
1	Informative lecture (conventional)
2	Conversational lecture

Methods and criteria of assessment		
Symbol of the assessment method	**Description of the assessment method**	**Passing threshold**
O1	Oral credit - didactic discussion connected with the lecture	51%
Required reading		
1	Ustawa z dnia 7 lipca 1994 r. – Prawo budowlane (Dz.U. z 2019 r. poz. 1186), z późniejszymi zmianami)	
2	Rozporządzenie Ministra Infrastruktury z dnia 12 kwietnia 2002 r. w sprawie warunków technicznych, jakim powinny odpowiadać budynki i ich usytuowanie (Dz.U. z 2019 r. poz. 1065), z późniejszymi zmianami	
3	Rozporządzenie Ministra Pracy i Polityki Socjalnej w sprawie ogólnych przepisów bezpieczeństwa i higieny pracy, tekst jednolity (Dz. U. 2003 nr 169 poz. 1650), z późniejszymi zmianami	

4	Bogucki J., Kocki W., Kwiatkowski B., Pełka J.,Tuszyńska-Bogucka W., Środowisko człowieka i jego percepcja - kształtowanie przyjaznych oraz nieprzyjaznych przestrzeni mieszkalnych, TEKA Komisji Architektury, Urbanistyki i Studiów Krajobrazowych PAN, 2016
5	Dmitruk M., Ergonomia nowoczesnych wnętrz mieszkalnych a potrzeby osób niepełnosprawnych. Stan obecny budynków i wskazania projektowe. Układ funkcjonalny, wykończenie, wyposażenie, [w]: Ergonomia niepełnosprawnym: interakcjyjne projektowanie ergonomiczne stanowisk pracy, przestrzeni użytkowych, przepływu informacji i produktu, 2017
6	Krause-Brykalska K., Ergonomia we współczesnej architekturze, Zeszyty Naukowe Małopolskiej Wyższej Szkoły Ekonomicznej w Tarnowie, 2017
7	Kwiatkowski B., Pokoje wyciszeń – współczesne tendencje projektowania, TEKA Komisji Architektury, Urbanistyki i Studiów Krajobrazowych PAN, 2015
8	Niebrzydowski W., Ergonomia mieszkania – czynniki wpływające na wielkość pomieszczeń, TEKA Komisji Architektury, Urbanistyki i Studiów Krajobrazowych PAN, 2015
9	Przesmycka N., Dmitruk M., Wybrane aspekty projektowania przestrzeni publicznych z uwzględnieniem potrzeb seniorów, Teka Komisji Architektury, Urbanistyki i Studiów Krajobrazowych, Polska Akademia Nauk - Oddział w Lublinie, 2016
10	Tilley Alvin R., The Measure Of Man And Woman – Human Factors In Design, John Wiley & Sons, 2002
11	Złowodzki M., O ergonomii i architekturze, Wydawnictwo Politechniki Krakowskiej, 2008
Supplementary reading	
1	Błądek Z., Gałkowski A.E., Udostępnianie obiektów hotelowych dla osób niepełnosprawnych. Problematyka projektowania i przystosowania., UKFiT I Polskie Zrzeszenie Hoteli, 1997
2	Sinnott R., Safety and Security in Building Design, 1985
3	Tytyk E., Projektowanie ergonomiczne., WNPWN, 2001
4	Wysocki, M., Projektowanie otoczenia dla osób niewidomych: pozawzrokowa percepcja przestrzeni, Wydawnictwo Politechniki Gdańskiej, 2010

Student workload	
Student activity form	**Average number of hours needed to complete the activity**
Contact hours with the lecturer, including:	**15**
Participating in lectures	15
Student self-study, including:	**10**
Knowledge consolidation	10
Total student workload	**25**
Total ECTS credits for the module/subject:	**1**

Learning outcomes matrix					
Symbol of the learning outcome for the course	**Reference of a particular learning outcome to outcomes defined for the field of study together with the degree of correlation**	**Course objectives**	**Course content**	**Teaching methods**	**Methods of assessment**

EK 1	A2A_W02 +++ A2A_W04 +++ A2A_W06 +++	C1, C2, C3	W1, W2, W3, W5, W6	1, 2	O1
EK 2	A2A_W02 ++ A2A_W04 +++ A2A_W06 +++	C1, C2, C3, C4	W1, W2, W3, W5, W6	1, 2	O1
EK 3	A2A_W02 +++ A2A_W13 +	C1, C2	W2, W3, W4	1, 2	O1
EK 4	A2A_W02 +++ A2A_W05 +	C1, C2	W1, W2, W3, W4, W5, W6	1, 2	O1
EK 5	A2A_W02 ++ A2A_W05 ++	C1, C2, C3	W4, W5, W6	1, 2	O1
EK 6	A2A_K01 + A2A_K03 +++	C2, C3, C4	W2, W3, W4, W5, W6	1, 2	O1

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Organizational unit:	Department of Architecture and Urban Planning

Course syllabus
Field of study: Architecture
Second-cycle study

Course:	Advanced aspects of roads and streets
Type of course:	Course from group B.2.
Code of course:	IIB.2.1.
Year:	I
Semester:	I
Mode of study:	Full-time
Form of classes and number of contact hours per semester:	15
Lecture	15
Classes	-
Laboratory	-
Project	-
Number of ECTS credits:	1
Form of assessment:	Lecture - credit
Language of instruction:	Polish

Course objectives	
C1	Acquiring knowledge of intersections
C2	Acquiring knowledge of environmentally friendly road interchanges and facilities
C3	Acquiring knowledge of horizontal and vertical road signs, intersections and junctions consistent with traffic safety regulations
C4	Acquiring knowledge of environmental protection and drainage of road intersections and junctions
C5	Acquiring basic knowledge of the influence of adverse communication impacts on human health and methods to protect the environment and people from adverse impacts of communication infrastructure

Preliminary requirements in terms of knowledge, skills and other competencies	
1	Basic knowledge of transportation construction
2	Knowledge of the design of road infrastructure elements

Learning outcomes	
	In terms of knowledge:
EK 1	The student knows the principles of solving structural, engineering and technological problems in road structures
EK 2	The student knows materials and technologies used in modern road construction
	In terms of social competence:
EK 3	The student is ready to critically evaluate the acquired knowledge and received content, recognize its importance in solving problems, and on this basis - to independently complement and expand it, especially in the field of modern trends of architectural and urban design

Course content	
Form of classes – lecture	
	Course content
W1	Minister of Infrastructure Regulation of 1 August 2019 amending the regulation on technical conditions to be met by public roads and their location (Journal of Laws No. 1643 of 2019)
W2	Definitions and elements of intersections. Types of intersections
W3	Basic elements of road junctions. Types of road junctions
W4	Functional characteristics of road intersections and interchanges, collisions, capacity. Conditions, technical and environmental criteria for the selection of intersections and road junctions
W5	Basic requirements and principles of designing the geometry of intersections and road junctions. Traffic calming elements at intersections
W6	Definitions, scope, objectives and principles of environmental protection in transportation construction

Teaching methods	
1	Traditional lecture with multimedia presentation

Methods and criteria of assessment		
Symbol of the assessment method	**Description of the assessment method**	**Passing threshold**
O1	Written credit	51%

Required reading	
1	Rozporządzenie Ministra Infrastruktury z dnia 1 sierpnia 2019 r. zmieniające rozporządzenie w sprawie warunków technicznych, jakim powinny odpowiadać drogi publiczne i ich usytuowanie (Dz. U. Nr 1643 z 2019 r.)
2	Wytyczne projektowania skrzyżowań drogowych cz. 1 i cz.2, GDDP. Warszawa, 2001 r
3	Krystek R., Węzły drogowe i autostradowe, WKiŁ 2008
4	Bohatkiewicz J., Adamczyk J., Tracz M., Kokowski A. i in. Podręcznik dobrych praktyk wykonywania opracowań środowiskowych dla dróg krajowych. GDDKiA. Warszawa, 2008
Supplementary reading	
1	Bohatkiewicz J., Dębiński M., Biernacki S., Jamrozik K., Jukowski M. Ecological Engineering of Road Traffic. Politechnika Lubelska
2	Inżynieria ruchu drogowego – teoria i praktyka. Gaca S., Suchorzewski W., Tracz M. Wydawnictwa Komunikacji i Łączności. Warszawa, 2008 (wznowienie w 2011 r.)

Student workload	
Student activity form	**Average number of hours needed to complete the activity**
Contact hours with the lecturer, including:	**15**
Attending lectures	15
Student self-study, including:	**10**
Preparation for the credit	10

Total student workload	**25**
Total ECTS credits for the module/subject:	**1**

Learning outcomes matrix					
Symbol of the learning outcome for the course	**Reference of a particular learning outcome to outcomes defined for the field of study together with the degree of correlation**	**Course objectives**	**Course content**	**Teaching methods**	**Methods of assessment**
EK 1	A2A_W01 ++ A2A_W07 +++	C1, C2, C3, C4, C5	W1, W2, W3, W4, W5, W6	1	O1
EK 2	A2A_W01 ++ A2A_W19 +++	C1, C2, C3, C4, C5	W1, W2, W3, W4, W5, W6	1	O1
EK 3	A2A_K03 +++	C1, C2, C3, C4, C5	W1, W2, W3, W4, W5, W6	1	O1

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Organizational unit:	Department of Roads and Bridges

Course syllabus
Field of study: Architecture
Second-cycle study

Course:	Energy-efficient construction
Type of course:	Course from group B.2.
Code of course:	IIB.2.2.
Year:	I
Semester:	II
Mode of study:	Full-time
Form of classes and number of contact hours per semester:	45
Lecture	15
Classes	-
Laboratory	-
Project	30
Number of ECTS credits:	3
Form of assessment:	Lecture – credit, project -credit
Language of instruction:	Polish

Course objectives	
C1	Gaining knowledge of the architectural and material/construction solutions used in buildings with reduced energy demand
C2	Acquiring the ability to solve engineering problems related to the shaping of the body of the building to reduce heat loss and ensure rational energy gains from solar radiation

Preliminary requirements in terms of knowledge, skills and other competencies	
1	Knowledge and skills in mathematics for solvin engineering problems
2	Knowledge of building physics and general construction to design typical building elements

Learning outcomes	
	In terms of knowledge:
EK 1	The student defines and characterises buildings with reduced energy demand
EK 2	The student indicates principles for the location and design of buildings with reduced energy demand
EK 3	The student identifies ways to design solid and transparent partitions in buildings with reduced energy demand
EK 4	The student identifies the possibilities and methods of solar energy harvesting and characterises the heliopassive and helioactive elements of a building
	In terms of skills:
EK 5	The student determines the heat transfer coefficients for building partitions of different construction
EK 6	The student evaluates the design of solid and glazed partitions in view of resultant thermal insulation

EK 7	The student evaluates solutions to structural junctions in view of the potential for thermal bridges formation
	In terms of social competence:
EK 8	The student is responsible for the accuracy of the results obtained from his/her work and their interpretation

Course content	
Form of classes – lecture	
	Course content
W1	Renewable and non-renewable energy sources. Structure of energy demand in a building. Definitions and characteristics of buildings with reduced energy demand
W2	Influence of location, building shape and functional arrangement of rooms on heat demand
W3	Construction of solid and glazed partitions in low energy buildings. Solutions to minimize thermal bridges. Building air tightness requirements
W4	Solar energy opportunities in buildings. Optical characteristics of building materials and products related to solar radiation conversion
W5	Passive and active solar energy utilization systems
Form of classes – project	
	Course content
P1	Selection of material and construction solutions for homogeneous and heterogeneous solid partitions used in typical newly designed buildings and energy-saving buildings
P2	Selection of material and construction solutions for glazed partitions used in typical newly designed buildings and energy efficient buildings
P3	Evaluation of proposed solutions - determining thermal insulating power of partitions with diversified construction
P4	Designing selected structural junctions with regard to reduction of heat flow and elimination of thermal bridges
P5	Evaluation of proposed solutions - determination of linear heat transfer coefficient of two-dimensional structural nodes

Teaching methods	
1	Informative lecture, including theoretical content
2	Team project

Methods and criteria of assessment		
Symbol of the assessment method	**Description of the assessment method**	**Passing threshold**
O1	Credit in writing (set of descriptive questions)	51%
O2	Degree of progress and correctness of the project (review)	51%
O3	Implementation of the project	——
O4	Written defense of the project	51%

Student workload	
Student activity form	**Average number of hours needed to complete the activity**
Contact hours with the lecturer, including:	**45**
Attending lectures	15
Attending project classes	30
Student self-study, including:	**30**
Preparing for the credit	10
Project completion	20
Total student workload	**75**
Total ECTS credits for the subject	**3**

Required reading	
1	Dylla A., Praktyczna fizyka cieplna budowli, Wydawnictwa Uczelniane UTP, 2009
2	Budownictwo ogólne, t.2, Fizyka budowli, Arkady, 2010
3	Laskowski L., Ochrona cieplna i charakterystyka energetyczna budynku, OWPW, 2008
4	Kotarska K., Kotarski Z., Ogrzewanie energią słoneczną. Systemy pasywne, Wydawnictwo Czasopism i Książek Technicznych NOT-SIGMA, 1989
5	Wołoszyn M. A., Wykorzystanie energii słonecznej w budownictwie jednorodzinnym
Supplementary reading	
1	Wnuk R., Budowa Domu Pasywnego w praktyce

Learning outcomes matrix					
Symbol of the learning outcome for the course	**Reference of a particular learning outcome to outcomes defined for the field of study together with the degree of correlation**	**Course objectives**	**Course content**	**Teaching methods**	**Methods of assessment**
EK 1	A2A_W11 +++	C1, C2	W1	1	O1
EK 2	A2A_W04 ++ A2A_W06 +++ A2A_W11 +++	C1, C2	W2	1	O1
EK 3	A2A_W06 +++ A2A_W07 +++ A2A_W19 +++	C1, C2	W3	1	O1
EK 4	A2A_W06 ++ A2A_W07 ++ A2A_W19 +++	C1, C2	W4, W5	1	O1
EK 5	A2A_U01 ++ A2A_U02 +++ A2A_U03 +++	C2	P1, P2, P3, P4	2	O2, O3, O4
EK 6	A2A_U01 ++ A2A_U02 +++ A2A_U03 +++ A2A_U07 +++	C1, C2	P1, P2, P4	2	O2, O3, O4

EK 7	A2A_U01 ++ A2A_U02 +++ A2A_U03 +++ A2A_U07 +++	C1, C2	P2, P4	2	O2, O3, O4
EK 8	A2A_K01 +++ A2A_K02 ++ A2A_K03 +++ A2A_K06 +	C2	P1, P2, P3, P4, P5	2	O2, O3, O4

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Organizational unit:	Department of Construction

Course syllabus
Field of study: Architecture
Second-cycle study

Course:	Advanced aspects of general construction
Type of course:	Course from group B.2.
Code of course:	IIB.2.3.
Year:	I
Semester:	I
Mode of study:	Full-time
Form of classes and number of contact hours per semester:	45
Lecture	15
Classes	-
Laboratory	-
Project	30
Number of ECTS credits:	3
Form of assessment:	Lecture – exam, project - credit
Language of instruction:	Polish

Course objectives	
C1	Acquiring the ability to apply the criteria for the selection of structural elements, finishes and insulation in buildings constructed with traditional and industrialized technology
C2	Acquiring the ability to correctly shape elements, structures and selected building objects and develop appropriate architectural and construction designs using modern technologies in construction
C3	Acquiring the knowledge of advanced facade, balcony and flat roof structures

Preliminary requirements in terms of knowledge, skills and other competences	
1	Knowledge of the basic properties of construction materials and products used in construction
2	Knowledge of and ability to prepare technical construction drawings
3	Knowledge of computer programs for word processing, drawings and engineering calculations

Learning outcomes	
	In terms of knowledge:
EK 1	The student knows materials and technologies used in modern construction
EK 2	The student knows the principles of solving structural, engineering and technological problems in various architectural objects
	In terms of skills:
EK 3	The student is able to assess the suitability and usability of modern materials, techniques and technologies
EK 4	The student is able to develop sophisticated architectural designs of buildings and their surroundings in accordance with technical, functional, aesthetic and cultural requirements
	In terms of social competence:

EK 5	The student is ready to critically evaluate the acquired knowledge and the received contents, recognise its significance in solving problems, and on this basis - to independently complement and extend it, especially in the scope of modern trends of architectural and urban design
EK 6	The student is willing to evaluate the reliability of the results of his/her own work and that of his/her subordinates, and to seek expert advice if he/she has difficulty solving the problem independently

Course content	
Form of classes – lecture	
	Course content
W1	Modern multi-rib ceilings, including pre-stressed ones, general principles of their construction and technical characteristics
W2	Advanced balcony constructions e.g. on steel tendons, types, general principles of their construction and technical characteristics. Elimination of thermal bridges using e.g. insulation connectors with isothermal reinforcement
W3	Glass in construction; types, applications (facades, roofs, stairs), technologies. Construction details
W4	Stone elevations - application of stone in newly built structures. Types and characteristics of stone, fixing methods, corrosion protection of stone elevations Walls - two layer walls in the "heavy-dry" method, sandwich walls, cavity walls - bracing and support of the curtain wall, construction of lintels
W5	Technology of thermal insulation execution on the inside of existing buildings. Types of traditional and modern materials, installation of insulation panels, problems of thermal insulation of walls from the inside
W6	Transparent and architectural concrete, classification, method of execution, application, mistakes in execution
W7	Modern flat roof solutions - general information. Solid, ventilated, ventilated and inverted flat roofs. Roofs with greenery
Form of classes – project	
	Course content
P1	Ribbed ceilings, floor lintels. Principles of construction drawings
P2	Distribution ribs - design, functions. Ceiling reinforcement under partitions. Reinforcement of ceilings at supports. Ceiling construction at openings, monolithic and hollow core floorings
P3	Review of floor plan of a multi-rib floor with a set of construction details
P4	Construction details drawings for flat roofs - green roof, inverted roof, flat roof drainage, expansion joints
P5	Review of structural detail drawings of flat roofs
P6	Drawing of foundation wall and floor on the ground, waterproofing
P7	Review of a flat roof projection with a set of construction details
P8	Drawing of a terrace with a glass balustrade
P9	Design of building elevation with complicated, extended body with the use of modern building materials. Construction details i.a. two-layer walls using "heavy-dry" method, layered walls, cavity walls - bracing and supporting curtain wall, isothermal carriers, glass, stone, architectural concrete, wood, fiber-cement panels facades, balconies, terraces, stairs on the ground and others

Teaching methods	
1	Multimedia presentations, including theoretical content
2	Project completion
3	Defence of projects

Methods and criteria of assessment		
Symbol of the assessment method	**Description of the assessment method**	**Passing threshold**
O1	Exam	60%
O2	Implementation of the project	-
O3	Written defense of the project	51%

Required reading	
1	Buczkowski W.- praca zbiorowa, Budownictwo ogólne. Konstrukcje budynków. Tom 4, Arkady 2009
2	Lichołai L. – praca zbiorowa, Budownictwo ogólne. Elementy budynków. Podstawy projektowania. Tom 3, Arkady 2008
3	Rozporządzenie Ministra Infrastruktury w sprawie warunków technicznych jakim powinny odpowiadać budynki i ich usytuowanie z dnia 12 kwietnia 2002r. (Dz. U. Nr 75, poz. 690 z późniejszymi zmianami)
4	Neufert E., Podręcznik projektowania architektoniczno-budowlanego, Arkady 2000
Supplementary reading	
1	Markiewicz P., Budownictwo ogólne dla architektów, Archi-Plus 2011
2	Rokiel M., Hydroizolacje w budownictwie. Projektowanie, wykonawstwo wyd. 3. Rozszerzone, Grupa Media 2019
3	Byrdy C., Dachy i stropodachy ocieplone i nieocieplone. Wydawnictwo Politechniki Krakowskiej 2003.
4	Panas J.- praca zbiorowa, Nowy Poradnik Majstra budowlanego, Arkady 2011
5	Schabowicz K., Gorzelańczyk T., Materiały do ćwiczeń projektowych z Budownictwa ogólnego, DWE Wrocław 2009
6	Niedostatkiewicz M., Dachy, stropodachy, tarasy. Remonty i wzmacnianie. DIFIN Spółka Aukcyjna 2016

Student workload	
Student activity form	**Average number of hours needed to complete the activity**
Contact hours with the lecturer, including:	**45**
Attending lectures	15
Attending project classes	30
Student's own work, including:	**30**
Preparation for the exam	10
Preparation for the classes	5
Project completion	15

Total student workload	**75**
Total number of ECTS credits for the subject:	**3**

Learning outcomes matrix					
Symbol of the learning outcome for the course	**Reference of a particular learning outcome to outcomes defined for the field of study together with the degree of correlation**	**Course objectives**	**Course content**	**Teaching methods**	**Methods of assessment**
EK 1	A2A_W01 ++ A2A_W19 +++	C1, C3	W1 – W7	1, 2	O1, O3
EK 2	A2A_W01 ++ A2A_W06 ++	C1, C3	W1 – W7	1, 2	O1, O3
EK 3	A2A_U07 ++	C1	P1, P2, P4, P9	2, 3	O2, O3
EK 4	A2A_U03 ++	C1, C2	P1, P2, P4, P6, P8, P9	2, 3	O2, O3
EK 5	A2A_K03 +++	C1, C2	P3, P5, P7	2, 3	O1, O2, O3
EK 6	A2A_K01 ++	C1, C2	P3, P5, P7	2, 3	O2, O3

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Organizational unit:	Department of Construction

Course syllabus
Field of study: Architecture
Second-cycle study

Course:	Selected issues in building construction
Type of course:	Course from group B.2.
Code of course:	IIB.2.4.
Year:	I
Semester:	I
Mode of study:	Full-time
Form of classes and number of contact hours per semester:	30
Lecture	15
Classes	15
Laboratory	-
Project	-
Number of ECTS credits:	2
Form of assessment:	Lecture – credit, classes – credit
Language of instruction:	Polish

Course objectives	
C1	Gaining knowledge about steel as a material for building structures
C2	Acquiring knowledge of the working and dimensioning of tension, compression, bending and shear load-bearing members and basic connections of load-bearing elements of steel structures
C3	Acquiring knowledge of welded and pinned joints in steel structures
C4	Providing students with the basic ability to interpret technical documentation in the field of steel structures

Preliminary requirements in terms of knowledge, skills and other competencies	
1	Knowledge of mathematics
2	Knowledge and skills in structural mechanics
3	Knowledge and skills in general construction
4	Knowledge of the building construction fundamentals

Learning outcomes	
	In terms of knowledge:
EK 1	The student has knowledge of the basic grades of steel used in building structures. He/she has knowledge of the advantages and disadvantages of steel as a construction material
EK 2	The student knows the standards for steel structures as far as the design of simple structural elements and typical welded joints are concerned
EK 3	The student knows the basics of calculating and constructing simple elements of steel structures - bending elements, tension elements compression elements. He/she knows the basic principles of calculating welded and bolted lap joints
	In terms of skills:

EK 4	He/she is able to calculate basic steel structural elements
EK 5	He/she is able to interpret a technical drawing for steel structures
	In terms of social competence:
EK 6	He/she is ready to evaluate the reliability of the obtained results of his work and that of his subordinate team, and to consult experts in case of difficulties in solving the problem on his own

Course content	
Form of classes – lecture	
	Course content
W1	Historical outline of metal structures. Examples of engineering structures in the country and in the world
W2	Metallurgical materials and products. Physical and mechanical properties of steel. Classification of steels into grades, symbolism of markings.
W3	Load-bearing capacity and dimensioning of structural elements. Dimensioning under load
W4	Steel columns (single and multi-branched). Heads, shafts, bases - forming and dimensioning
W5	Rolled and composite steel beams (plate girders). Beam support.
W6	Types of fasteners - bolt connections (simple and preloaded), rivets, pins and welded connections
W7	Technical documentation of steel structures
Form of classes – classes	
	Course content
CW1	Preliminary activities. Textbooks and subject standards. Introductory information on using standards and tables for designing steel structures
CW2	Determining the section class
CW3	Calculating resistance of tension members
CW4	Calculating resistance of compression members
CW5	Calculating resistance of bent members
CW6	Calculating resistance of sheared members
CW7	Interpreting technical drawings in the field of steel construction

Teaching methods	
1	Informative lecture including multimedia presentations
2	Sets of tasks developed for particular exercises

Methods and criteria of assessment		
Symbol of the assessment method	**Description of the assessment method**	**Passing threshold**
O1	Written exam (set of tests and descriptive questions)	60%

O2	Written credit in the form of tasks	51%

Required reading	
1	PN-EN 1993-1-1 Eurokod 3: Projektowanie konstrukcji stalowych. Część 1-1: Reguły ogólne i reguły dla budynków
2	PN-EN 1993-1-8:2006 Eurokod 3: Projektowanie konstrukcji stalowych. Część 1-8: Projektowanie węzłów
3	Bogucki W., Żyburtowicz M.: Tablice do projektowania konstrukcji metalowych, Arkady, W-wa
4	Praca zbiorowa pod kier. Giżejowskiego M, Ziółko J.: Budownictwo ogólne, Tom. 5, Stalowe konstrukcje budynków. Projektowanie wg eurokodów z przykładami obliczeń. Arkady, Warszawa 2009
5	Bródka J., Broniewicz M.: Projektowanie konstrukcji stalowych według Eurokodów. PWT 2013

Student workload	
Student activity form	**Average number of hours needed to complete the activity**
Contact hours with the lecturer, including:	**30**
Attending lectures	15
Attending classes	15
Student's own work, including:	**30**
Preparation for the exam	15
Preparation for the classes	15
Total student workload	**60**
Total number of ECTS credits for the subject	**2**

Learning outcomes matrix					
Symbol of the learning outcome for the course	**Reference of a particular learning outcome to outcomes defined for the field of study together with the degree of correlation**	**Course objectives**	**Course content**	**Teaching methods**	**Methods of assessment**
EK 1	A2A_W07 + A2A_W19 +	C1	W1, W2	1	O1
EK 2	A2A_W08 +++	C2, C3	W2, CW1	1, 2	O1, O2
EK 3	A2A_W07 +++	C2, C3	W3, W4, W5, W6, CW1, CW2, CW3, CW4, CW5, CW6	1, 2	O1, O2
EK 4	A2A_U07 ++	C2, C3, C4	CW1, CW2, CW3, CW4, CW5, CW6	2	O2
EK 5	A2A_U07 ++	C3, C4	CW7	2	O2

EK 6	A2A_K01 +++ A2A_K06 +++	C4	W2, W3, W4, W5, W6, W7, CW2, CW3, CW4, CW5, CW6, CW7	1, 2	O1, O2

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Organizational unit:	Department of Structural Engineering

Course syllabus
Field of study: Architecture
Second-cycle study

Course:	Selected issues in building construction
Type of course:	Course from group B.2.
Code of course:	IIB.2.4.
Year:	II
Semester:	II
Mode of study:	Full-time
Form of classes and number of contact hours per semester:	60
Lecture	30
Classes	15
Laboratory	-
Project	15
Number of ECTS credits:	4
Form of assessment:	Lecture – exam, classes – credit, project – credit
Language of instruction:	Polish

Course objectives	
C1	Acquiring knowledge of the principles for solving structural and engineering problems in various building structures
C2	Acquiring knowledge in assessing the suitability and feasibility of using modern materials in building structures
C3	Acquiring the ability to solve design tasks of reinforced concrete structures
C4	Acquiring the ability to solve design tasks for timber structures

Preliminary requirements in terms of knowledge, skills and other competences	
1	Knowledge and skills in the field of materials science, general construction, mechanics of buildings and basics of building structures covered by the curriculum of the first cycle
2	Knowledge and skills in selected issues of building structures covered by the curriculum in the first semester of second cycle studies

Learning outcomes	
	In terms of knowledge:
EK 1	The student knows the principles of solving structural and engineering problems in modern buildings
EK 2	The student is familiar with assessing the suitability and feasibility of using modern materials in building structures
	In terms of skills:
EK 3	The student is able to solve design tasks for reinforced concrete structural elements
EK 4	The student knows how to solve design tasks for wooden structural elements
	In terms of social competence:

EK 5	The student is prepared to critically evaluate his/her knowledge and is aware of the necessity of its independent supplementation and extension
EK 6	The student is ready to evaluate the results of his/her work and to seek expert advice
EK 7	The student is ready to improve professional and personal competences

Course content	
Form of classes – lecture	
	Course content
W1	Structures - buildings - building structures. Bar and surface elements in modern building structures. Structural systems of modern buildings. Principles of designing modern structures and their elements.
W2	Wood structures in general construction. Basic structural systems of wooden buildings. Wooden structures of buildings and large span roofs
W3	Structures made of glued laminated timber. Trapezoid girders, boomerang girders, three-part girders, arch girders, drawn girders. Frame systems. Modern wood-wood, wood-steel, wood-concrete combinations
W4	Buildings of reinforced concrete construction. Industrialized monolithic and prefabricated structures. Monolithic wall and frame structures of high rise buildings. Structures of high-strength concrete buildings
W5	Foundation of tall buildings. Shaping and loading of tall buildings. Elevations in high buildings.
W6	Steel frame buildings. Steel structures for pavilions and trade fair halls. Structural steel roofing.
W7	Steel frame structures of high and high-rise buildings. Structural systems and basis of static calculations. Composite structures of high-rise buildings and special structural solutions
W8	Structures made of glass. Glass as a construction material. Design and connections of glass structures
W9	Tension structures. Characteristics and types. Materials used for tendons. Mechanical properties of tendons and protection against corrosion. Anchorage of tendons.
W10	Textile structures. The range of applied material-technological solutions. Textile materials used in shells. Mechanical properties of textile fabrics. Principles of designing, constructing and operating the roofings.
W11	Review of the roofs of sports and public utility facilities. Materials used for load-bearing elements and for roofings of modern long-span buildings. Construction of roofs of sports and entertainment halls and public utility buildings. Construction systems and ranges of cross-over spans.
W12	Coating structures of sports and public utility buildings. Cylindrical, fold and shield coatings. Arches and vaults. Domes. Hyperbolic-parabolic coatings
W13	Covering structures of sports and public utility buildings. Trusses. Spatial trusses. Bar-and-tension trusses and tendon systems. Pneumatic structures. Arches and frames.
W14	Covering structures of sports and public utility facilities. Modern methods of truss and dome assembly. Case studies of roofing of multi-purpose halls, cycling tracks, tennis courts, swimming pools, artificial ice rinks, assembly halls

W15	Characteristics of load-bearing structures and overview of stadium grandstand covers. Types of supporting structures of stadium stands. Overview of tribune roofing by type of structural system
Form of classes – classes	
	Course content
CW1	Solving calculation exercises on selected wooden structures
Form of classes – project	
	Course content
P1	Solving design tasks on selected reinforced concrete and masonry structures

Teaching methods	
1	Informative lecture including multimedia presentations
2	Solving design tasks for wooden structures followed by review
3	Solving design tasks for reinforced concrete and masonry structures followed by review

Methods and criteria of assessment		
Symbol of the assessment method	**Description of the assessment method**	**Passing threshold**
O1	Written exam (set of descriptive and multiple choice test questions)	51%
O2	Solving exercises or project tasks	——
O3	Oral justification of the solutions adopted and the results obtained from the exercise	51%
O4	Oral defense of solved project tasks	51%

Required reading	
1	Mielczarek Z.: Nowoczesne konstrukcje w budownictwie ogólnym, Arkady, Warszawa 2001
2	Praca zbiorowa: Budownictwo ogólne – Tom 4: Konstrukcje budynków, Arkady, Warszawa 2009
3	Charleson A.W.: Structure as architecture. A source book for architects and structural engineers, Elsevier, Oxford 2005
4	Macdonald A.J.: Structure and architecture, Second Edition, Elsevier, Oxford 2001
5	Nożyński W., Przykłady obliczeń konstrukcji budowlanych z drewna, WSiP, Warszawa 1994
6	Kotwica J.: Konstrukcje drewniane w budownictwie tradycyjnym, Arkady, 2004
7	Neuhaus H.: Budownictwo drewniane, PWT, 2006
8	PN-EN 1992-1-1 Projektowanie konstrukcji z betonu. Część 1-1 Reguły ogólne i reguły dla budynków
9	Knauff M., Golubińska A., Knyziak P.: Tablice i wzory do projektowania konstrukcji żelbetowych z przykładami obliczeń, PWN 2013
10	PN-EN 1996-1-1 Projektowanie konstrukcji murowych. Część 1-1 Reguły ogólne i reguły dla niezbrojonych i zbrojonych konstrukcji murowych
11	Łukasz Drobiec, Radosław Jasiński, Adam Piekarczyk - Konstrukcje murowe według Eurokodu 6 i norm związanych, tom 1, Wydawnictwo Naukowe PWN,

	Warszawa 2013

Student workload	
Student activity form	**Average number of hours needed to complete the activity**
Contact hours with the lecturer, including:	**60**
Attending lectures	30
Attending classes	15
Attending project	15
Student's own work, including:	**40**
Preparation for the exam	10
Execution of calculation exercises with preparation for discussion of their solution	10
Independent execution of project exercises with preparation for their defense	20
Total student workload	**100**
Total number of ECTS credits for the subject	**4**

Learning outcomes matrix					
Symbol of the learning outcome for the course	**Reference of a particular learning outcome to outcomes defined for the field of study together with the degree of correlation**	**Course objectives**	**Course content**	**Teaching methods**	**Methods of assessment**
EK 1	A2A_W07 +++	C1	W1–W15	1	O1
EK 2	A2A_W19 +++	C2	W1–W15	1	O1
EK 3	A2A_U07 ++	C3	CW1	2	O2, O3
EK 4	A2A_U07 ++	C4	P1	3	O2, O4
EK 5	A2A_K03 +	C1–C4	W1–W15, CW1, P1	1, 2, 3	O2, O3, O4
EK 6	A2A_K01 ++	C3, C4	CW1, P1	2, 3	O2, O3, O4
EK 7	A2A_K04 ++	C1–C4	W1–W15, CW1, P1	1, 2, 3	O1, O2, O3, O4

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Course syllabus
Field of study: Architecture
Second-cycle study

Course:	Freehand drawing for architects
Type of course:	Course from group B.3.
Code of course:	IIB.3.1.
Year:	I
Semester:	I
Mode of study:	Full-time
Form of classes and number of contact hours per semester:	30
Lecture	-
Classes	-
Laboratory	30
Project	-
Number of ECTS credits:	1
Form of assessment:	Laboratory - credit
Language of instruction:	Polish

Course objectives	
C1	Acquiring skills of synthetic hand drawing, as a record of an architectural idea
C2	Raising students' awareness of cultural landscape
C3	Developing artistic sensitivity and enhancing creativity

Preliminary requirements in terms of knowledge, skills and other competencies	
1	Skill in freehand drawing, knowledge of basic workshop techniques in drawing

Learning outcomes	
	In terms of knowledge:
EK 1	The student has broadened knowledge in the field of fine arts and knows basic methods and techniques applied in freehand drawing understood as "architect's language".
	In terms of skills:
EK 2	The student is able to use freehand drawing to synthetically convey own idea or show any chosen architectural or constructional issue
	In terms of social competence:
EK 3	The student is ready to improve professional and personal competences, develop drawing skills and artistic sensitivity

Course content	
Form of classes – laboratory	
	Course content

L1	Drawing as an element of visualization during direct communication with the investor and designer of other sectors
L2	Presentation of a selected topic illustrated by a freehand drawing
L3	Practising selected techniques and tools

Teaching methods	
1	Studio and imagination drawing exercises (in the studio)
2	Plein-air drawing

Methods and criteria of assessment		
Symbol of the assessment method	**Description of the assessment method**	**Passing threshold**
O1	Activity in classes	Formative assessment (without credit threshold)
O2	Making drawings during class	80%

Required reading	
1	Freehand Drawing For Architects and Interior Designers, M. Delgado, E. Dominigues, W. W. Norton & Company, 2005
2	Radosław Jan Balcerzak, Mirosław Orzechowski, Joanna Pętkowska-Hankel, Michał Suffczyński, Adam Sufliński, Tomasz Trzupek, Rysunek architektoniczny w praktyce, czyli jak patrzeć ze zrozumieniem, Warszawa 2019
Supplementary drawing	
1	Joseph A. Koncelik, Kevin Reeder, Conceptual Drawing: Freehand Drawing & Design Visualizations for Design Professionals
2	N. Przesmycka, 2015, Teaching of freehand drawing in the context of cultural differences, Czasopismo Techniczne Architektura, Issue 4-A (4), 2015, Wydawnictwo Politechniki Krakowskiej, s. 159-168

Student workload	
Student activity form	**Average number of hours needed to complete the activity**
Contact hours with the lecturer, including:	**30**
Attending classes	30
Total student workload	**30**
Total ECTS credits for the subject	**1**

Learning outcomes matrix					
Symbol of the learning outcome for the course	**Reference of a particular learning outcome to outcomes defined for the field of study together with the degree of correlation**	**Course objectives**	**Course content**	**Teaching methods**	**Methods of assessment**
EK 1	A2A_W03 ++	C2	L2	1, 2	O1, O2

EK 2	A2A_U15 +++	C1, C2, C3	L1, L2, L3	1, 2	O1, O2
EK 3	A2A_K04 +++	C3	L1, L3	1, 2	O1, O2

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Course syllabus
Field of study: Architecture
Second-cycle study

Course:	Advanced techniques of BIM
Type of course:	Course from group B.3.
Code of course:	IIB.3.2.
Year:	I
Semester:	I
Mode of study:	Full-time
Form of classes and number of contact hours per semester:	30
Lecture	–
Classes	–
Laboratory	30
Project	–
Number of ECTS credits:	1
Form of assessment:	Laboratory – credit
Language of instruction:	Polish

Course objectives	
C1	Obtaining knowledge by the student in the field of creating and modification of BIM models for the existing objects as well as for the newly designed ones
C2	Gaining skills by the student of creation, modification and detailed expansion of the BIM model with the elements of construction and architecture

Preliminary requirements in terms of knowledge, skills and other competencies	
1	Having computer skills
2	Having knowledge and skills in the principles of drawing technical documentation
3	Having knowledge and skills in the basic BIM techniques

Learning outcomes	
	In terms of knowledge:
EK 1	Has knowledge in the field of designing and creating documentation for newly designed or existing objects and knows the rules for describing and diagnosing building elements in various architectural objects
EK 2	Knows the materials and technologies used in construction as well as the technologies of conducting construction works
	In terms of skills:
EK 3	Is able to gather information concerning the object, analyse and interpret them and group them. On the basis of the obtained information he/she is able to identify all elements of the building in detail and is able to implement the obtained information for the created BIM model
EK 4	Is able to use information exchange techniques between the teams of various construction industries. He/she is able to cooperate with the members of other teams and discuss professional issues with them

	In terms of social competence:
EK 5	Is responsible for the work performed. He/she is ready to consult experts and other team members in case of difficulties in solving the problem on his/her own. He/she is aware of the need to act in an entrepreneurial manner and comply with ethical and economic principles in professional activity.

Course content	
Form of classes – laboratory	
L1	Getting acquainted with the functions of computer programme for technical Building Information Modelling. Creating basic documentation on the basis of the existing documentation and the point cloud
L2	BIM model in relation to traditional and historic buildings
L3	Creating the BIM model on the basis of information included in the existing design documentation. Introducing specific elements of the structure and the architecture of the facility into the model
L4	Reading information from the BIM model. Creating detailed drawing technical documentation
L5	Preparation and printing of drawing documentation

Teaching methods	
1	Working with source materials (instructions containing a description, interpretation of results and guidance on the format of the research report)
2	Team work

Methods and criteria of assessment		
Symbol of the assessment method	**Description of the assessment method**	**Passing threshold**
O1	Completion of a laboratory exercise and report in class	80%

Required reading	
1	Kasznia D., Magiera J., Wiechowski P., BIM w praktyce, PWN, 2018
2	Suchorab Z., Łagód G. Computer aided designing: 3D modelling of the passive house. Lublin, Komitet Inżynierii Środowiska PAN, 2013
3	Ślęk R., ArchiCAD. Wprowadzenie do projektowania BIM, Helion, 2013
Literatura uzupełniająca	
4	Eastman C., Teicholz P., Sacks R., Liston K. BIM Handbook: A guide to building information modelling for owners, managers, designers, engineers and contractors. New York, John Wiley & Sons, United States, 2011
5	Goedert J. D., Meadati P., Integrating Construction Process Documentation into Building Information Modelling. Journal of Construction Engineering and Management 134 (7) (2008) 509 – 516
6	Szeląg M., Szewczak A., Brzyski P., BIM in General Construction, Politechnika Lubelska 2017

7	The contractors' guide to BIM. Associated General Contractors (AGC) of America, 2006

Student workload	
Student activity form	**Average number of hours needed to complete the activity**
Contact hours with the lecturer, including:	**30**
Participation in the laboratory	30
Total student workload	**30**
Total number of ECTS credits for the subject	**1**

Learning outcomes matrix					
Symbol of the learning outcome for the course	**Reference of a particular learning outcome to outcomes defined for the field of study together with the degree of correlation**	**Course objectives**	**Course content**	**Teaching methods**	**Methods of assessment**
EK 1	A2A_W02 ++ A2A_W07 +++	C1	L1, L2, L3	1	O1
EK 2	A2A_W19 ++	C1	L2, L3	1	O1
EK 3	A2A_U02 ++	C2	L3, L4, L5	1, 2	O1
EK 4	A2A_U10 +++ A2A_U17 ++	C2	L4, L5	1, 2	O1
EK 5	A2A_K01 ++ A2A_K06 +	C1, C2	L1, L2, L3	1, 2	O1

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Organisational unit:	Department of Conservation of Built Heritage

Course syllabus
Field of study: Architecture
Second-cycle study

Course:	Architectural and conservatory documentation
Type of course:	Course from group B.3.
Code of course:	IIB.3.3.
Year:	I
Semester:	II
Mode of study:	Full-time
Form of classes and number of contact hours per semester:	60
Lecture	30
Classes	–
Laboratory	–
Project	30
Number of ECTS credits:	3
Form of assessment:	Lecture – credit, project – credit
Language of instruction:	Polish

Course objectives	
C1	Obtaining knowledge in the field of architectural research in terms of the historical character, based on the results of the archival and bibliographic query as well as knowledge of materials science and the history of construction techniques
C2	Acquiring skills in the field of :the method of documenting the results of architectural and conservatory research; the role of the research against the complex research of the conservatory process

Preliminary requirements in terms of knowledge, skills and other competencies	
1	Having knowledge and skills concerning building materials
2	Having knowledge in the field of protection of monuments; conservation rules; monument protection systems and other issues important from the point of view of protection and conservation of monuments

Learning outcomes	
	In terms of knowledge:
EK 1	Student indicates the methods of architectural and conservation research, selects them in the process of conservation works
EK 2	Student defines various categories of values inherent in monuments and then formulates conservatory conclusions
EK 3	Student indicates the place of research of material substance of architectural objects both in complex research (examination of the existing building structure as one of the stages of multiaspectual analysis) and in the conservatory processes
	In terms of skills:
EK 4	Student uses archival resources for definition and direction of the scope of architectural research

EK 5	Student verifies the necessary scope of research, he/she is able to carry them out „in situ" and work out conclusions in graphic, text and photo form
EK 6	Student makes and uses documentations from architectural and conservatory research
	In terms of social competence:
EK 7	Cares about the reliability of the obtained results of the research and their interpretation

Course content	
Form of classes – lecture	
	Course content
W1	Architecture research documentation objectives in theory and in practice
W2	Architecture research documentation methods in theory and in practice
W3	Architecture research documentation forms in theory and in practice
Form of classes – project	
	Course content
P1	Project of analysis and documentation of construction complexes/fragments of architectural objects in terms of the following aspects: supporting structure, building material and its processing, plaster and polychrome
P2	Isolation, on the basis of research, of various phases/stages of construction of an exemplary complex/fragment of an object (chronological study) and documenting them by drawing

Teaching methods	
1	Problem lecture
2	Informative lecture
3	Team project

Methods and criteria of assessment		
Symbol of the assessment method	**Description of the assessment method**	**Passing threshold**
O1	Written credit of the lecture content	60%
O2	Implementation of the project	——
O3	Defense of the project	60%

Required Reading	
1	FrazikJ.T., Megaskopowa analiza materiału, techniki i stratygrafii murów oraz tynków zabytkowych budowli, Czasopismo Techniczne. Budownictwo, R. 67, Kraków 1967, z.3, s.1-15
2	Kajzer L., Wstęp do badań archeologiczno-architektonicznych, Uniwersytet Łódzki, Łódź, 1986
3	Brykowska M., Metody pomiarów i badań zabytków architektury, Oficyna Wydawnicza Politechniki Warszawskiej, Warszawa, 2003

4	Małachowicz E.: Konserwacja i rewaloryzacja architektury w środowisku kulturowym, Wrocław, 2007
Supplementary reading	
1	Tajchman J., Bożejewicz E., Systematyka i terminologia zabytkowych stropów drewnianych bez sufitu występujących na terenie Polski, [w:] XXII Ogólnopolska Konferencja Warsztat Pracy Projektanta Konstrukcji – Szczyrk 2007, Bielsko-Biała 2007, s. 243-271
2	Brochwicz Z., Zaprawa wapienna jako tworzywo elementów architektonicznych na przykładzie służek w kaplicy zamkowej w Radzyniu Chełmińskim, AUNC, Zabytkoznawstwo i Konserwatorstwo, t. 4, 1971, s. 127-139
3	Publikacje Stowarzyszenia Konserwatorów Zabytków
4	Publikacje Towarzystwa Opieki nad Zabytkami

Student workload	
Student activity form	**Average number of hours needed to complete the activity**
Contact hours with the lecturer, including:	**60**
Participation in lectures	30
Participation in projects	30
Student self-study, including:	**15**
Preparation to pass the lectures	5
Individual design of the project	10
Total student workload	**75**
Total ECTS credits for the subject	**3**

Learning outcomes matrix					
Symbol of the learning outcome for the course	**Reference of a particular learning outcome to outcomes defined for the field of study together with the degree of correlation**	**Course objectives**	**Course content**	**Teaching methods**	**Methods of assessment**
EK 1	A2A_W03 ++ A2A_W15 +++ A2A_W20 +	C1	W1, W2	1	O1
EK 2	A2A_W03 ++ A2A_W15 +++ A2A_W20 +	C1	W1, W2, W3	1, 2	O1
EK 3	A2A_W03 ++ A2A_W15 +++ A2A_W20 +	C1	W1, W2, W3	1, 2	O1
EK 4	A2A_U05 +++ A2A_U07 ++ A2A_U10 + A2A_U16 ++	C2	P1	3	O2, O3
EK 5	A2A_U05 +++	C2	P1, P2	3	O2, O3

	A2A_U07 ++ A2A_U10 + A2A_U16 ++				
EK 6	A2A_U05 +++ A2A_U07 ++ A2A_U10 + A2A_U16 ++	C2	P2	3	O2, O3
EK 7	A2A_K01 ++ A2A_K09 +++	C2	W3, W4, P2	2, 3	O1, O2, O3

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Organizational unit:	Department of Conservation of Built Heritage

Course syllabus
Field of study: Architecture
Second-cycle study

Course:	Methodology of scientific work
Type of course:	Course from group B.3.
Code of course:	IIB.3.4.
Year:	I
Semester:	II
Mode of study:	Full time
Form of classes and number of contact hours per semester:	15
Lecture	15
Classes	-
Laboratory	-
Project	-
Number of ECTS credits:	1
Form of assessment:	Lecture – credit
Language of instruction:	Polish

Course objectives	
C1	Obtaining by the student the ability to formulate a research problem and hypotheses
C2	Thorough knowledge acquisition in the field of specialisation and the research subject/project subject
C3	Obtaining by the student the ability of gathering materials, making observations, i.e. carrying out research and projects using specific methods, techniques and research tools
C4	Obtaining by the student the ability of operating with literature, i.e. the output of other authors
C5	Obtaining by the student the ability of making a critical overview of the state of research as well as its confrontation with the source materials
C6	The student will obtain the ability to present his thoughts, arguments and achievements in writing, taking into account the elementary principles of scientific writing
C7	Obtaining by the student the ability to correctly construct a paper, i.e., the ability to logically select and arrange issues
C8	Implementation to use the acquired knowledge in practice to expand it on one's own in the future by reading publications in one's field

Preliminary requirements in terms of knowledge, skills and other competencies	
1	Having knowledge in the field of the history of architecture and urban planning as well as the history of art
2	Having knowledge in the field of technical conditions and the construction law
3	Having knowledge in the field of construction as well as in architectural and urban design

4	Having knowledge in the field of the fundamentals of building structures, building mechanics, building physics, building materials and strength

Learning outcomes	
	In terms of knowledge:
EK 1	Student has extensive knowledge concerning theoretical basics of scientific reasoning in the context of engineering tasks
EK 2	Student has knowledge concerning the principles of correctness of a scientific text in the field of architectural and urban design as well as related fields
	In terms of skills:
EK 3	Student is able to select the methods and techniques of empirical research in relation to his/her field
EK 4	Student is able to integrate knowledge from various fields of science, among others: history of architecture, history of art., sociology, spatial planning etc, as well as apply a systems approach taking into account also non-technical aspects
EK 5	Student is able to obtain information from literature and other, properly selected sources, integrate and interpret the obtained information as well as draw the conclusions
EK 6	Student is able to formulate a scientific text of a small volume keeping the principles of correct inference, objectivity and clarity of the message
	In terms of social competence:
EK 7	Student is aware of the importance of non-technical aspects and effects of engineering activities including their influence upon the natural and cultural environment and the associated responsibility for the decisions made with reference to the environment
EK 8	Student behaves in a responsible and ethical way in the process of carrying out scientific research

Course content	
Form of classes – lecture	
	Course content
W1	Scientific work, its specificity, characteristic features, conditions, types and results. A scientist silhouette
W2	Scientific research stages – gathering data, their analysis and presentation, drawing conclusions; limitations of the adopted methodology, examples of using methods in scientific works
W3	Master thesis as a scientific work – construction, the process of creation, mistakes in theses
W4	Literary studies as the basis of scientific work The methodology of a systematic literature review
W5	Popularisation of scientific work (publications, conferences and scientific seminars)
W6	Presentation and discussion concerning the preliminary assumptions (concepts) of theses

Teaching methods

1	Traditional lecture using multimedia presentations containing the theoretical basis of the subject
2	Discussion of field research examples

Methods and criteria of assessment		
Symbol of the assessment method	**Description of the assessment method**	**Passing threshold**
O1	Evaluation work in the form of a scientific article	70%

Required reading	
1	Konecki K., Studia z metodologii badań jakościowych. Teoria ugruntowana, PWN, Warszawa 2000
2	Jemielniak D., (red.), Badania jakościowe. Podejścia i teorie, tom 1, PWN, Warszawa 2012
3	Jemielniak D., (red.), Badania jakościowe. Metody i narzędzia, tom 2, PWN, Warszawa 2012
4	Kolman R., Zdobywanie wiedzy: Poradnik podnoszenia kwalifikacji (magisteria, doktoraty, habilitacje),Oficyna Wydawnicza Branta, Gdańsk 2004
Supplementary reading	
1	Charmaz K., Teoria ugruntowana, Praktyczny przewodnik po analizie jakościowej, PWN, Warszawa 2009
2	Silverman D., Prowadzenie badań jakościowych, PWN, Warszawa 2011
3	Silverman D., Interpretacja danych jakościowych, PWN, Warszawa 2012

Student workload	
Student activity form	**Average number of hours needed to complete the activity**
Contact hours with the lecturer, including:	**15**
Participation in lectures	15
Student self-study, including:	**10**
Preparation of the evaluation work	10
Total student workload	**25**
Total ECTS credits for the subject	**1**

Learning outcomes matrix					
Symbol of the learning outcome for the course	**Reference of a particular learning outcome to outcomes defined for the field of study together with the degree of correlation**	**Course objectives**	**Course content**	**Teaching methods**	**Methods of assessment**
EK 1	A2A_W01 + A2A_W07 ++	C1, C2	W1	1, 2	O1
EK 2	A2A_W02 + A2A_W03 +	C3, C4	W2, W3, W4	1, 2	O1

	A2A_W12 + A2A_W20 +++				
EK 3	A2A_U05 + A2A_U10 +	C5, C6	W2, W4	1, 2	O1
EK 4	A2A_U02 +++ A2A_U11 ++ A2A_U16 +++ A2A_U18 +++	C2, C3, C6, C7	W3, W4, W6	1, 2	O1
EK 5	A2A_U01 +++ A2A_U18 ++	C3, C4, C5	W2, W4	1, 2	O1
EK 6	A2A_U10 + A2A_U16 +++	C6, C7, C8	W2, W6	1, 2	O1
EK 7	A2A_K03 +++ A2A_K07 ++	C1, C2, C5	W1, W3, W5	1, 2	O1
EK 8	A2A_K01 ++ A2A_K04 +++	C5, C8	W1, W3, W5, W6	1, 2	O1

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Course syllabus
Field of study: Architecture
Second-cycle study

Course:	English language
Type of course:	Course from group C.1.
Code of course:	IIC.1.1.
Year:	I
Semester:	I
Mode of study:	Full-time
Form of classes and number of contact hours per semester:	30
Lecture	-
Classes	30
Laboratory	-
Project	-
Number of ECTS credits:	2
Form of assessment:	Credit
Language of instruction:	Polish

Course objectives	
C1	To enable the acquisition of using English language skills in the field of architecture and urban planning
C2	To enable the acquisition of skills to understand and analyse specialist texts in the field of architecture and urban planning
C3	To improve listening comprehension skills and skills of formulating utterances in the field of architecture and urban planning
C4	To increase and supplement the range of grammar structures necessary for communication in a foreign language
C5	To prepare students for independent use of professional literature in English

Preliminary requirements in terms of knowledge, skills and other competencies	
1	Completed English language course at B2 level

Learning outcomes	
	In terms of skills:
EK 1	Is able to use English in the field of architecture and urban planning
EK 2	Understands and is able to analyse specialist texts in the field of architecture and urban planning
EK 3	Understands spoken English and is able to express opinions in English on topics in the field of architecture and urban planning discussed in class
EK 4	Knows grammar structures necessary for communication in a foreign language
EK 5	Is able to independently use professional literature in English
	In terms of social competence:
EK 6	Is able to work and cooperate in a group

Course content	
Form of classes – classes	
	Course content
CW1	Architecture of the 20th century – characteristics; selected examples
CW2	Conservation of monuments and historic cities
CW3	Product design - design stages, specification, details
CW4	Modern design materials
CW5	Architect's portfolio presentation
CW6	Computer techniques in design

Teaching methods	
1	Practice with the use of audio and audio-visual materials
2	Work with specialist texts
3	Discussion
4	For the purpose of diagnostic language assessment – grammar exercises

Methods and criteria of assessment		
Symbol of the assessment method	**Description of the assessment method**	**Passing threshold**
O1	A written or an oral test covering specified material	51%
O2	A written test	51%

Required reading	
1	Virginia Evans, Art and Design , Career Paths, Express Publishing, 2013
2	Sandra Kulińska-Stanek, Alicja Półtorak - Filipowska Reading Companion for Students of Architecture (Politechnika Krakowska)
Supplementary reading	
1	The Penguin Dictionary of Architecture and Landscape Architecture
2	Beata Ludwiczak, Design English, an English coursebook for students of Enterior Architecture and Industrial Design, Fundacja Rozwoju Systemu Nauki, ASP Wrocław
3	Urban Design Lab Educations Private Limited Platform
4	Mark Powell, Dynamic Presentations (Cambridge University Press)

Student workload	
Form of the activity	**Average number of hours needed to complete the activity**
Contact hours with the lecturer, including:	**30**
Participation in classes	30
Student self-study, including:	**20**
Preparation for classes through doing writing assignments	10
Revising material for tests	10
Total student workload	**50**
Total number of ECTS credits for the course	**2**

Learning outcomes matrix					
Symbol of the learning outcome for the course	**Reference of a particular learning outcome to outcomes defined for the field of study together with the degree of correlation**	**Course objectives**	**Course content**	**Teaching methods**	**Methods of assessment**
EK 1	A2A_U01 +++ A2A_U09 +++	C1, C2, C3, C4, C5	CW1, CW2, CW3, CW4, CW5, CW6	1, 2, 3, 4	O1, O2
EK 2	A2A_U01 +++ A2A_U09 +++	C1, C2, C3, C4, C5	CW1, CW2, CW3, CW4, CW5, CW6	1, 2, 3, 4	O1, O2
EK 3	A2A_U01 +++ A2A_U09 +++	C1, C2, C3, C4, C5	CW1, CW2, CW3, CW4, CW5, CW6	1, 2, 3, 4	O1, O2
EK 4	A2A_U01 ++ A2A_U09 ++	C1, C2, C3, C4, C5	CW1, CW2, CW3, CW4, CW5, CW6	1, 2, 3, 4	O1, O2
EK 5	A2A_U01 +++ A2A_U09 +++	C1, C2, C3, C4, C5	CW1, CW2, CW3, CW4, CW5, CW6	1, 2, 3, 4	O1, O2
EK 6	A2A_K01 ++ A2A_K02 +	C1, C2, C3, C4, C5	CW1, CW2, CW3, CW4, CW5, CW6	1, 2, 3, 4	O1, O2

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Organisational unit:	Department of Foreign Languages at Lublin University of Technology

Course syllabus
Field of study: Architecture
Second-cycle study

Course:	English language
Type of course:	Course from group C.1.
Code of course:	IIC.1.1.
Year:	I
Semester:	II
Mode of study:	Full-time
Form of classes and number of contact hours per semester:	30
Lecture	-
Classes	30
Laboratory	-
Project	-
Number of ECTS credits:	2
Form of assessment:	Examination
Language of instruction:	Polish

Course objectives	
C1	To enable the acquisition of using English language skills in the field of architecture and urban planning
C2	To enable the acquisition of skills to understand and analyse specialist texts in the field of architecture and urban planning
C3	To improve listening comprehension skills and skills of formulating utterances in the field of architecture and urban planning
C4	To increase and supplement the range of grammar structures necessary for communication in a foreign language
C5	To prepare students for independent use of professional literature in English

Preliminary requirements in terms of knowledge, skills and other competencies	
1	Completed English language course at B2 level

Learning outcomes	
	In terms of skills:
EK 1	Is able to use English in the field of architecture and urban planning
EK 2	Understands and is able to analyse specialist texts in the field of architecture and urban planning
EK 3	Understands spoken English and is able to express opinions in English on topics in the field of architecture and urban planning discussed in class
EK 4	Knows grammar structures necessary for communication in a foreign language
EK 5	Is able to independently use professional literature in English
	In terms of social competence:
EK 6	Is able to work and cooperate in a group

Course content	
Form of classes – classes	
	Course content
CW1	Architecture of the 21st century - characteristics, selected aspects, examples
CW2	Modern construction materials in contemporary architectural projects
CW3	Principles of sustainable design
CW4	Engineering graphics in the profession of an architect
CW5	Contemporary urban planning projects - selected examples
CW6	Regional architecture - characteristics of selected examples

Teaching methods	
1	Practice with the use of audio and audio-visual materials
2	Work with specialist texts
3	Discussion
4	For the purpose of diagnostic language assessment – grammar exercises

Methods and criteria of assessment		
Symbol of the assessment method	**Description of the assessment method**	**Passing threshold**
O1	A written or an oral test covering specified material	51%
O2	A written and an oral examination	51%

Required reading	
1	Virginia Evans, Art and Design , Career Paths, Express Publishing, 2013
2	Sandra Kulińska-Stanek, Alicja Półtorak - Filipowska Reading Companion for Students of Architecture (Politechnika Krakowska)
Supplementary reading	
1	The Penguin Dictionary of Architecture and Landscape Architecture
2	Beata Ludwiczak, Design English, an English coursebook for students of Enterior Architecture and Industrial Design, Fundacja Rozwoju Systemu Nauki, ASP Wrocław
3	Platforma Urban Design Lab Educations Private Limited
4	Mark Powell, Dynamic Presentations (Cambridge University Press)

Student workload	
Form of the activity	**Average number of hours needed to complete the activity**
Contact hours with the lecturer, including:	**30**
Participation in classes	30
Student self-study, including:	**20**
Preparation for classes through doing writing assignments	10
Revising material for tests	10
Total student workload	**50**
Total number of ECTS credits for the course	**2**

Learning outcomes matrix					
Symbol of the learning outcome for the course	**Reference of a particular learning outcome to outcomes defined for the field of study together with the degree of correlation**	**Course objectives**	**Course content**	**Teaching methods**	**Methods of assessment**
EK 1	A2A_U01 +++ A2A_U09 +++	C1, C2, C3, C4, C5	CW1, CW2, CW3, CW4, CW5, CW6	1, 2, 3, 4	O1, O2
EK 2	A2A_U01 +++ A2A_U09 +++	C1, C2, C3, C4, C5	CW1, CW2, CW3, CW4, CW5, CW6	1, 2, 3, 4	O1, O2
EK 3	A2A_U01 +++ A2A_U09 +++	C1, C2, C3, C4, C5	CW1, CW2, CW3, CW4, CW5, CW6	1, 2, 3, 4	O1, O2
EK 4	A2A_U01 ++ A2A_U09 ++	C1, C2, C3, C4, C5	CW1, CW2, CW3, CW4, CW5, CW6	1, 2, 3, 4	O1, O2
EK 5	A2A_U01 +++ A2A_U09 +++	C1, C2, C3, C4, C5	CW1, CW2, CW3, CW4, CW5, CW6	1, 2, 3, 4	O1, O2
EK 6	A2A_K01 ++ A2A_K02 +	C1, C2, C3, C4, C5	CW1, CW2, CW3, CW4, CW5, CW6	1, 2, 3, 4	O1, O2

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Organisational unit:	Department of Foreign Languages at Lublin University of Technology

Course syllabus
Field of study: Architecture
Second-cycle study

Course:	German language
Type of course:	Course from group C.1.
Code of course:	IIC.1.1.
Year:	I
Semester:	I
Mode of study:	Full-time
Form of classes and number of contact hours per semester:	30
Lecture	-
Classes	30
Laboratory	-
Project	-
Number of ECTS credits:	2
Form of assessment:	Credit
Language of instruction:	Polish

Course objectives	
C1	To enable the acquisition of using German language skills in the field of architecture and urban planning
C2	To enable the acquisition of skills to understand and analyse specialist texts in the field of architecture and urban planning
C3	To improve listening comprehension skills and skills of formulating utterances in the field of architecture and urban planning
C4	To increase and supplement the range of grammar structures necessary for communication in a foreign language
C5	To prepare students for independent use of professional literature in German

Preliminary requirements in terms of knowledge, skills and other competencies	
1	Completed German language course at B2 level

Learning outcomes	
	In terms of skills:
EK 1	Is able to use German in the field of architecture and urban planning
EK 2	Understands and is able to analyse specialist texts in the field of architecture and urban planning
EK 3	Understands spoken German and is able to express opinions in German on topics in the field of architecture and urban planning discussed in class
EK 4	Knows grammar structures necessary for communication in a foreign language
EK 5	Is able to independently use professional literature in German
	In terms of social competence:
EK 6	Is able to work and cooperate in a group

Course content	
Form of classes – classes	
	Course content
CW1	Architecture of the 20th century – characteristics; selected examples
CW2	Conservation of monuments and historic cities
CW3	Product design - design stages, specification, details
CW4	Modern design materials
CW5	Architect's portfolio presentation
CW6	Computer techniques in design

Teaching methods	
1	Practice with the use of audio and audio-visual materials
2	Work with specialist texts
3	Discussion
4	For the purpose of diagnostic language assessment – grammar exercises

Methods and criteria of assessment		
Symbol of the assessment method	**Description of the assessment method**	**Passing threshold**
O1	A written or an oral test covering specified material	51%
O2	A written test	51%

Required reading	
1	Schmohl S., Schenk B. i in.; Akademie Deutsch, Hueber Verlag 2020
2	Stojek E. Texte zur Wahl fuer Studenten der Fachbereiche: Architektur&Bauingenieurwesen, Wydawnictwo Politechniki Krakowskiej, 2011
3	Guzik D. Alles digital. Moderne Themen im Deutschunterricht, Wydawnictwo Politechniki Krakowskiej, 2012
Supplementary reading	
1	Kujawa B. Mit Beruf auf Deutsch, Wydawnictwo Nowa Era, 2013
2	Mueller A. Schlueter S. Im Beruf Neu, Deutsch als Fremd-und Zweitsprache, Wydawnictwo Hueber, 2021
3	H.Baudisch, Taschenbuch für Ingenieure und Architekten, Verlag von Julius Springer
4	DW (Deutsche Welle), Educational Programs, 53110 Bonn, Germany

Student workload	
Form of the activity	**Average number of hours needed to complete the activity**
Contact hours with the lecturer, including:	**30**
Participation in classes	30
Student self-study, including:	**20**
Preparation for classes through doing writing assignments	10
Revising material for tests	10

Total student workload	**50**
Total number of ECTS credits for the course	**2**

Learning outcomes matrix					
Symbol of the learning outcome for the course	**Reference of a particular learning outcome to outcomes defined for the field of study together with the degree of correlation**	**Course objectives**	**Course content**	**Teaching methods**	**Methods of assessment**
EK 1	A2A_U01 +++ A2A_U09 +++	C1, C2, C3, C4, C5	CW1, CW2, CW3, CW4, CW5, CW6	1, 2, 3, 4	O1, O2
EK 2	A2A_U01 +++ A2A_U09 +++	C1, C2, C3, C4, C5	CW1, CW2, CW3, CW4, CW5, CW6	1, 2, 3, 4	O1, O2
EK 3	A2A_U01 +++ A2A_U09 +++	C1, C2, C3, C4, C5	CW1, CW2, CW3, CW4, CW5, CW6	1, 2, 3, 4	O1, O2
EK 4	A2A_U01 ++ A2A_U09 ++	C1, C2, C3, C4, C5	CW1, CW2, CW3, CW4, CW5, CW6	1, 2, 3, 4	O1, O2
EK 5	A2A_U01 +++ A2A_U09 +++	C1, C2, C3, C4, C5	CW1, CW2, CW3, CW4, CW5, CW6	1, 2, 3, 4	O1, O2
EK 6	A2A_K01 ++ A2A_K02 +	C1, C2, C3, C4, C5	CW1, CW2, CW3, CW4, CW5, CW6	1, 2, 3, 4	O1, O2

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Course syllabus
Field of study: Architecture
Second-cycle study

Course:	German language
Type of course:	Course from group C.1.
Code of course:	IIC.1.1.
Year:	I
Semester:	II
Mode of study:	Full-time
Form of classes and number of contact hours per semester:	30
Lecture	-
Classes	30
Laboratory	-
Project	-
Number of ECTS credits:	2
Form of assessment:	Exam
Language of instruction:	Polish

Course objectives	
C1	To enable the acquisition of using German language skills in the field of architecture and urban planning
C2	To enable the acquisition of skills to understand and analyse specialist texts in the field of architecture and urban planning
C3	To improve listening comprehension skills and skills of formulating utterances in the field of architecture and urban planning
C4	To increase and supplement the range of grammar structures necessary for communication in a foreign language
C5	To prepare students for independent use of professional literature in German

Preliminary requirements in terms of knowledge, skills and other competencies	
1	Completed German language course at B2 level

Learning outcomes	
	In terms of skills:
EK 1	Is able to use German in the field of architecture and urban planning
EK 2	Understands and is able to analyse specialist texts in the field of architecture and urban planning
EK 3	Understands spoken German and is able to express opinions in German on topics in the field of architecture and urban planning discussed in class
EK 4	Knows grammar structures necessary for communication in a foreign language
EK 5	Is able to independently use professional literature in German
	In terms of social competence:
EK 6	Is able to work and cooperate in a group

Course content	
Form of classes – classes	
	Course content
CW1	Architecture of the 21st century - characteristics, selected aspects, examples
CW2	Modern construction materials in contemporary architectural projects
CW3	Principles of sustainable design
CW4	Engineering graphics in the profession of an architect
CW5	Contemporary urban planning projects - selected examples
CW6	Regional architecture - characteristics of selected examples

Teaching methods	
1	Practice with the use of audio and audio-visual materials
2	Work with specialist texts
3	Discussion
4	For the purpose of diagnostic language assessment – grammar exercises

Methods and criteria of assessment		
Symbol of the assessment method	**Description of the assessment method**	**Passing threshold**
O1	A written or an oral test covering specified material	51%
O2	A written and an oral examination	51%

Required reading	
1	Schmohl S., Schenk B. i in.; Akademie Deutsch, Hueber Verlag 2020
2	Stojek E. Texte zur Wahl fuer Studenten der Fachbereiche: Architektur&Bauingenieurwesen, Wydawnictwo Politechniki Krakowskiej, 2011
3	Guzik D. Alles digital. Moderne Themen im Deutschunterricht, Wydawnictwo Politechniki Krakowskiej, 2012
Supplementary reading	
1	Kujawa B. Mit Beruf auf Deutsch, Wydawnictwo Nowa Era, 2013
2	Mueller A. Schlueter S. Im Beruf Neu, Deutsch als Fremd-und Zweitsprache, Wydawnictwo Hueber, 2021
3	H.Baudisch, Taschenbuch für Ingenieure und Architekten, Verlag von Julius Springer
4	DW (Deutsche Welle), Educational Programs, 53110 Bonn, Germany

Student workload	
Form of the activity	**Average number of hours needed to complete the activity**
Contact hours with the lecturer, including:	**30**
Participation in classes	30
Student self-study, including:	**20**
Preparation for classes through doing writing assignments	10
Revising material for tests	10

Total student workload	**50**
Total number of ECTS credits for the course	**2**

Learning outcomes matrix					
Symbol of the learning outcome for the course	**Reference of a particular learning outcome to outcomes defined for the field of study together with the degree of correlation**	**Course objectives**	**Course content**	**Teaching methods**	**Methods of assessment**
EK 1	A2A_U01 +++ A2A_U09 +++	C1, C2, C3, C4, C5	CW1, CW2, CW3, CW4, CW5, CW6	1, 2, 3, 4	O1, O2
EK 2	A2A_U01 +++ A2A_U09 +++	C1, C2, C3, C4, C5	CW1, CW2, CW3, CW4, CW5, CW6	1, 2, 3, 4	O1, O2
EK 3	A2A_U01 +++ A2A_U09 +++	C1, C2, C3, C4, C5	CW1, CW2, CW3, CW4, CW5, CW6	1, 2, 3, 4	O1, O2
EK 4	A2A_U01 ++ A2A_U09 ++	C1, C2, C3, C4, C5	CW1, CW2, CW3, CW4, CW5, CW6	1, 2, 3, 4	O1, O2
EK 5	A2A_U01 +++ A2A_U09 +++	C1, C2, C3, C4, C5	CW1, CW2, CW3, CW4, CW5, CW6	1, 2, 3, 4	O1, O2
EK 6	A2A_K01 ++ A2A_K02 +	C1, C2, C3, C4, C5	CW1, CW2, CW3, CW4, CW5, CW6	1, 2, 3, 4	O1, O2

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Organisational unit:	Department of Foreign Languages at Lublin University of Technology

Course syllabus
Field of study: Architecture
Second-cycle study

Course:	Sociology and environmental psychology
Type of course:	Course of group C.1.
Code of course:	IIC.1.2.a.
Year:	II
Semester:	III
Mode of study:	Full-time
Form of classes and number of contact hours per semester:	15
Lecture	15
Classes	-
Laboratory	-
Project	-
Number of ECTS credits:	1
Form of assessment:	Credit
Language of instruction:	Polish language

Course objectives	
C1	Introduction to the fundamentals of environmental psychology. Acquainting the student with the features of the human-environment relationship
C2	Encouraging the student to solve architectural problems taking into account social environmental features of the environment
C3	Acquainting the student with issues of team management

Preliminary requirements in terms of knowledge, skills and other competencies	
1	No preliminary requirements

Learning outcomes	
	In terms of knowledge:
EK 1	Has extended knowledge in terms of shaping the human environment, taking into account the relationships between people and architectural objects and the surrounding space
EK 2	Knows the procedures for the development of architectural designs, taking into account social factors
	In terms of skills:
EK 3	Is able to shape the human environment, taking into account the relationships between people and architectural objects and the surrounding space in the context of sustainable development
EK 4	Is able to coordinate the work of a multi-sector project team, cooperate with its members and stimulate discussions on professional topics
	In terms of social competence:
EK 5	Is ready to share his/her knowledge on architecture and urban planning to the public

Course content	
Form of classes – lecture	
	Course content
W1	What is environmental psychology and its specific nature (definitions, research methods, application areas of environmental psychology)
W2	Man in the ecological context. Human interactions with the natural and man-made environment (environmental diagnosis, objective and psychological properties). The concept of place and attachment to place
W3	Perception of the environment and its representation in the human mind, i.e. cognitive maps (elements of cognitive maps, errors in maps, simulations facilitating space learning)
W4	Environmental stress. Roger Barker's ecological theory
W5	Analysis of human territorial needs affecting human physical and mental comfort (personal space, territorial behavior, population density and congestion, behavioral swamp)
W6	City - the impact of urban life on city dwellers (urban stress and adaptation, dispersion of responsibility, homelessness, vandalism) and environmental solutions of urban problems
W7	Design and human behavior. Stages and features of the design process - the designer's perspective, psychological goals of the designed environment, Post-Occupancy Evaluation - POE)
W8	Possibilities of rebuilding the environment destroyed by man. The common pasture dilemma, strategies encouraging environmentally responsible behavior
W9	Behavior of a man in a team. Management styles, models of managerial competencies. Interpersonal communication

Teaching methods	
1	Informative lecture (traditional)
2	Interactive lecture

Methods and criteria of assessment		
Symbol of the assessment method	**Description of the assessment method**	**Passing threshold**
O1	Oral credit	55%

Required reading	
1	Bańka A., Psychologia środowiskowa jakości życia i innowacji społecznych, Stowarzyszenie Psychologia i Architektura, 2018
2	Bell P.,A., Greene Th., C.,Fisher J.,D., Baum A., Psychologia środowiskowa, Gdańskie Wydawnictwo Psychologiczne, 2004
Supplementary reading	
1	Bańka A., Społeczna psychologia środowiskowa, Wydawnictwo Naukowe Scholar, 2002
2	Bernheimer L., Potęga przestrzeni wokół nas, Wydawnictwo Amber, 2018
3	Gaweł D., Szafranek A., Place publiczne miast jako przestrzeń stymulująca potrzeby człowieka , Budownictwo i Architektura 2018, nr 3, s.67-80

4	Kożusznik B., Kierowanie zespołem pracowniczym, Polskie Wydawnictwo Ekonomiczne, 2005
5	Lewicka M., Psychologia miejsca, Wydawnictwo Naukowe Scholar, 2012
6	Sujak E., ABC psychologii komunikacji, Wydawnictwo WAM, 2018
7	Szafranek A. Przebudowa Aleksander Platz jako przykład współczesnego kształtowania przestrzeni publicznej, TEKA Komisji Architektury, Urbanistyki i Studiów Krajobrazowych PAN, Tom 15, Nr2, s.44-53, 2019

Student workload	
Student activity form	**Average number of hours needed to complete the activity**
Contact hours with the lecturer, including:	**15**
Participation in lectures	15
Student self-study, including:	**10**
Preparation for the credit	10
Total student workload	**25**
Total ECTS credits for the subject:	**1**

Learning outcomes matrix					
Symbol of the learning outcome for the course	**Reference of a particular learning outcome to outcomes defined for the field of study together with the degree of correlation**	**Course objectives**	**Course content**	**Teaching methods**	**Methods of assessment**
EK 1	A2A_W04 +++	C1, C2	W1, W2, W3, W4, W5, W6, W8	1, 2	O1
EK 2	A2A_W05 +	C2, C3	W7, W9	1, 2	O1
EK 3	A2_U13 +	C1, C2	W2, W3, W4, W5, W6, W7, W8	1, 2	O1
EK 4	A2A_U17 +	C3	W9	1, 2	O1
EK 5	A2A_K05 +	C3	W2, W6, W8	1, 2	O1

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Course syllabus
Field of study: Architecture
Second-cycle study

Course:	History of art
Type of course:	Course of group C.
Code of course:	IIC.1.2.b.
Year:	II
Semester:	III
Mode of study:	Full-time
Form of classes and number of contact hours per semester:	15
Lecture	15
Classes	-
Laboratory	-
Project	-
Number of ECTS credits:	1
Form of assessment:	Credit
Language of instruction:	Polish language

Course objectives	
C1	Acquiring extended knowledge in the field of art history
C2	Acquiring knowledge in the field of relationship between architecture and the man in the context of cultural conditions
C3	Understanding culture and individual epochs in art in the context of ideological, material and social conditions - recognizing individual styles of plastic arts and combining them with parallel phenomena in architecture

Preliminary requirements in terms of knowledge, skills and other competencies	
1	Basic knowledge of the history of architecture and urban planning
2	Knowledge of plastic arts

Learning outcomes	
	In terms of knowledge:
EK 1	Has extended knowledge of the relationship between various fields of art. Knows the styles in art and related creative relationships as well as the process of implementing artistic works related to architecture
EK 2	Has extended knowledge of the history of general and Polish art
	In terms of skills:
EK 3	Is able to recognize relationship between particular fields of art in the context of ideological, material and social conditions as well as to combine phenomena in culture and art with parallel phenomena in architecture. Is able to recognize various types of cultural products specific to architecture and carry out a critical analysis of them using typical methods in order to determine their meanings, social impact and place in the historical and cultural process
	In terms of social competence:

EK 4	Is ready to improve his professional and personal competencies. Independently complements and extends knowledge in the field of architectural and urban design
EK 5	Is ready to form an opinion on phenomena in space caused by the activities of an architect and an urban planner and to formulate opinions
EK 6	Is ready to respect the existing cultural environment

Course content	
Form of classes – lecture	
	Course content
W1	The art of primitive societies (prehistory)
W2	Ancient art (Egypt, Mesopotamia, Greece and Rome)
W3	Medieval Art (Early Christian, Byzantine, Early Medieval, Romanesque and Gothic)
W4	Modern art (Renaissance and Baroque)
W5	Modern art (classicism, turn of the 19th and 20th centuries, until 1945)
W6	The newest art (after 1945)
W7	Iconography and iconology. Theories and interpretations of works of art
W8	Visit to a museum or art gallery

Teaching methods	
1	Interactive and traditional lectures with the use of multimedia presentations; visiting the exhibition, discussion
2	Study of a given research issue, e.g. collecting initial materials, presenting them in writing

Methods and criteria of assessment		
Symbol of the assessment method	**Description of the assessment method**	**Passing threshold**
O1	Preparation of a written study	100%
O2	Oral presentation of the selected issue	100%
O3	Active participation in classes	Formative assessment (no passing threshold)

Required reading	
1	Białostocki J., Sztuka cenniejsza niż złoto. Opowieść o sztuce europejskiej naszej ery, Warszawa 1991
2	Sztuka świata, t. 1-10, Warszawa 1992-1998
Supplementary reading	
1	Panofsky E., Studia z historii sztuki, tłum. J. Białostocki, K. Kamińska i in., Warszawa 1971
2	Piwocki K., Dzieje sztuki w zarysie, Warszawa 1987

Student workload	
Student activity form	**Average number of hours needed to complete the activity**
Contact hours with the lecturer, including:	**15**
Participation in lectures	15

Student self-study, including:	**10**
Preparation of a written study	7
Preperation for oral presentation	3
Total student workload	25
Total ECTS credits for the subject:	**1**

Learning outcomes matrix					
Symbol of the learning outcome for the course	**Reference of a particular learning outcome to outcomes defined for the field of study together with the degree of correlation**	**Course objectives**	**Course content**	**Teaching methods**	**Methods of assessment**
EK 1	A2A_W03 +++	C1, C2, C3	W1, W2, W3, W4, W5, W6, W7, W8	1, 2	O1 ,O2
EK 2	A2A_W03 +++	C1, C2, C3	W1, W2, W3, W4, W5, W6, W7, W8	1, 2	O1, O2
EK 3	A2A_U01 ++ A2A_U02 +++ A2A_U12 ++	C1, C2, C3	W1, W2, W3, W4, W5, W6, W7, W8	1, 2	O1, O2
EK 4	A2A_K04 +++	C1, C2, C3	W1, W2, W3, W4, W5, W6, W7, W8	1, 2	O1, O2
EK 5	A2A_K05 +++	C1, C2, C3	W1, W2, W3, W4, W5, W6, W7, W8	1, 2	O1, O2
EK 6	A2A_K05 ++ A2A_K07 +++	C1, C2, C3	W1, W2, W3, W4, W5, W6, W7, W8	1, 2	O1, O2

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Organizational unit:	Department of Architecture and Urban Planning

Course syllabus
Field of study: Architecture
Second-cycle study

Course:	Philosophy and aesthetics
Type of course:	Course of group C.
Code of course:	IIC.1.2.c.
Year:	II
Semester:	III
Mode of study:	Full-time
Form of classes and number of contact hours per semester:	15
Lecture	15
Classes	-
Laboratory	-
Project	-
Number of ECTS credits:	1
Form of assessment:	Credit
Language of instruction:	Polish language

Course objectives	
C1	Acquiring general knowledge in the field of philosophy, with particular emphasis on aesthetics to the extent it affects the quality of architectural, urban and planning creativity, necessary to formulate and solve complex tasks in the field of architectural and urban design and spatial planning, as well as the evaluation of existing and designed solutions
C2	Acquiring knowledge in the field of relationship between architecture and the man in the context of cultural conditions
C3	Understanding culture and individual epochs in art in the context of ideological, material and social conditions - recognizing individual styles of plastic arts and combining them with parallel phenomena in architecture

Preliminary requirements in terms of knowledge, skills and other competencies	
1	Knowledge of the history of architecture and urban planning
2	Basic knowledge of plastic arts

Learning outcomes	
	In terms of knowledge:
EK 1	Has extended knowledge of the relationship between various fields of art
EK 2	Has extended knowledge of philosophy and aesthetics as well as the history of culture and art. Knows and understands the issues of philosophy, with particular emphasis on aesthetics - to the extent it affects the quality of architectural, urban and planning creativity
	In terms of skills:
EK 3	Can properly use concepts such as aesthetic value, beauty and aesthetic experience, and perceive a broader philosophical context of issues related to architectural and

	urban design. Understands the dependencies between particular fields of art in the context of ideological, material and social conditions and combining phenomena in culture and art with parallel phenomena in architecture
	In terms of social competence:
EK 4	Is ready to improve his professional and personal competencies. Independently complements and extends knowledge in the field of architectural and urban design
EK 5	Is ready to formulate an opinion on phenomena in space caused by the activities of an architect and urban planner as well as to formulate opinions (also in the form of public presentations)
EK 6	Is ready to respect existing cultural environment and take responsibility for humane, social and cultural, architectural and urban values in the protection of the environment and cultural heritage

Course content	
Form of classes – lecture	
	Course content
W1	Ancient philosophy and aesthetics in the context of the culture of the epoch. Concepts and phenomena
W2	Medieval philosophy and aesthetics and their influence on changing the approach to the concept of beauty
W3	Modern philosophy: Renaissance and Baroque. Changes in aesthetic concepts
W4	Modern philosophy and art and their influence on culture. Changing the status of the artist
W5	New aesthetic phenomena after 1945
W6	Transition of the concept of beauty, art and culture in the history of art
W7	A visit to an art gallery or art museum

Teaching methods	
1	Interactive and traditional lectures with the use of multimedia presentations; visiting the exhibition, discussion
2	Study of a research issue, e.g. collecting initial materials, presenting them in writing
3	Analysis of works of art, work with illustrative material
4	Direct contact with a work of art

Methods and criteria of assessment		
Symbol of the assessment method	**Description of the assessment method**	**Passing threshold**
O1	Submitting of the required written study	——
O2	Presentation of the selected issue	60%
O3	Active participation in classes (taking part in discussion	Formative assessment (no passing threshold)

Required reading	
1	Tatarkiewicz W., Historia estetyki, t.1-2, Wrocław 1960

2	Białostocki J., Sztuka cenniejsza niż złoto. Opowieść o sztuce europejskiej naszej ery, Warszawa 1991
Supplementary reading	
1	Tatarkiewicz W., Dzieje sześciu pojęć, Warszawa 2011
2	Panofsky E., Studia z historii sztuki, tłum. J. Białostocki, K. Kamińska i in., Warszawa 1971

Student workload	
Student activity form	**Average number of hours needed to complete the activity**
Contact hours with the lecturer, including:	**15**
Participation in lectures	15
Student self-study, including:	**10**
Preparation of a written study	7
Preperation for oral presentation	3
Total student workload	**25**
Total ECTS credits for the subject:	**1**

Learning outcomes matrix					
Symbol of the learning outcome for the course	**Reference of a particular learning outcome to outcomes defined for the field of study together with the degree of correlation**	**Course objectives**	**Course content**	**Teaching methods**	**Methods of assessment**
EK 1	A1A_W03 +++	C1, C2, C3	W1, W2, W3, W4, W5, W6, W7	1, 2, 3, 4	O1
EK 2	A1A_W03 +++	C1, C2, C3	W1, W2, W3, W4, W5, W6, W7	1, 2, 3, 4	O1, O2, O3
EK 3	A1A_U01 + A1A_U11 +++ A1A_U12 +++	C1, C2, C3	W1, W2, W3, W4, W5, W6, W7	1, 2, 3, 4	O1, O2, O3
EK 4	A1A_K03 +++ A1A_K04 +++	C1, C2, C3	W1, W2, W3, W4, W5, W6, W7	1, 2, 3, 4	O1, O2, O3
EK 5	A1A_K01 +++ A1A_K09 ++	C1, C2, C3	W1, W2, W3, W4, W5, W6, W7	1, 2, 3, 4	O1, O2, O3
EK 6	A1A_K05 +++ A1A_K07 ++	C1, C2, C3	W1, W2, W3, W4, W5, W6, W7	1, 2, 3, 4	O1, O2, O3

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Course syllabus
Field of study: Architecture
Second-cycle study

Course:	Diploma seminar
Type of course:	Course from group D.
Code of course:	IID.1.1.
Year:	I
Semester:	II
Mode of study:	Full-time
Form of classes and number of contact hours per semester:	20
Lecture	-
Classes	-
Laboratory	-
Project	20
Number of ECTS credits:	1
Form of assessment:	Credit
Language of instruction:	Polish

Course objectives	
C1	Demonstrating that the student is able to independently make a critical analysis of the existing conditions, valorize the state of land development and buildings and formulate conclusions resulting from the pre-design analyzes
C2	Demonstrating that the student is able to independently solve a design problem (architectural or urban) based on the basic, directional and specialist knowledge acquired during the first cycle studies, using modern tools to support the work of an engineer, with particular emphasis on computer methods

Preliminary reguirements in terms of knowledge , skills and other competencies	
1	Having knowledge and skills (in the field of architecture and urban planning undergraduate studies), allowing for the execution of design works
2	Knowledge of the Construction Law and Technical Conditions to be met by buildings and their location, knowledge of the principles of designing architectural objects in terms of technical and functional solutions
3	Having drawing skills and the ability of graphic presentation of individual ideas in a communicative manner

Learning outcomes	
	In terms of knowledge:
EK 1	Knows and understands the problems related to architecture and urban planning regarding the solutions of complex design problems
EK 2	Knows the rules, solutions,structures, building materials necessary to perform engineering tasks in the field of architectural and urban design

EK 3	Knows the problems concerning architecture and urban planning in the context of multi-sectoral character of architectural and urban planning and the need of cooperation with other specialists
	In terms of skills:
EK 4	Is able to describe and illustrate the pre-design analyzes performed
EK 5	Can design an architectural object or an urban complex, creating and transforming space so as to give it new values - in accordance with the adopted program, taking into account non-technical aspects and integrating interdisciplinary knowledge and skills acquired during studies
	In terms of social competence:
EK 6	Is ready to effectively use imagination, intuition, creative attitude and independent thinking to solve design problems

Course content	
Form of classes – project	
	Course content
P1	Seminar introduction, presentation of diploma theses, visiting an exhibition of diploma theses, working out a given research problem e.g. collecting initial materials for a thesis, Analysis of existing conditions, valorization of the state of land development and buildings, design analyses, formulating conclusions for the design of a selected object of architecture or urban complex
P2	Concept design, establishing a functional and spatial scheme for the designed facility

Teaching methods	
1	Individual project
2	Individual revision
3	Presentation of sample solutions
4	Workshop realizations in the form of drawing sketches

Methods and criteria of assessment		
Symbol of the assessment method	**Description of the assessment method**	**Passing treshhold**
O1	Degree of advancement and correctness of project implementation (review)	70%
O2	Preparation of an excerpt of the master's thesis	——

Required reading	
1	To be agreed individually with the seminar leader, depending on the topic of work
Supplementary reading	
1	To be agreed individually with the seminar leader, depending on the topic of work.

Student workload	
Student activity form	**Average number of hours needed to complete the activity**
Contact hours with the lecturer, including:	**20**

Participation in design classes	20
Student self-study, including:	**5**
Consolidation of knowledge	1
Self-execution of the project	4
Total student workload	**25**
Total ECTS credits for the module/subject:	**1**

Learning outcomes matrix					
Symbol of the learning outcome for the course	**Reference of a particular learning outcome to outcomes defined for the field of study together with the degree of correlation**	**Course objectives**	**Course content**	**Teaching methods**	**Methods of assessment**
EK 1	A2A_W02 +++ A2A_W04 +	C1, C2	P1, P2	1, 2, 3	O1, O2
EK 2	A2A_W19 +++ A2A_W09 ++	C1, C2	P1, P2	1, 2, 3, 4	O1, O2
EK 3	A2A_W06 ++ A2A_W20 ++	C1, C2	P1, P2	1, 2, 3	O1, O2
EK 4	A2A_U02 +++ A2A_U03 ++	C1, C2	P1, P2	2, 3, 4	O1, O2
EK 5	A2A_U07 ++	C1, C2	P1, P2	2, 3	O1, O2
EK 6	A2A_K03 ++	C1, C2	P1, P2	1, 2	O1, O2

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Course syllabus
Field of study: Architecture
Second-cycle study

Course:	Specialist consultations
Type of course:	Course from group D.
Code of course:	IID.1.2.
Year:	II
Semester:	III
Mode of study:	Full-time
Form of classes and number of contact hours per semester:	15
Lecture	-
Classes	-
Laboratory	-
Project	15
Number of ECTS credits:	1
Form of assessment:	Credit
Language of instruction:	Polish

Course objectives	
C1	Obtaining the ability to use the knowledge acquired in the learning process in the field of complex guidelines for the created design solutions for the design problem adopted in the subject of the engineering diploma thesis
C2	Obtaining the ability to use the knowledge acquired in the learning process in the field of complex guidelines for designed building, material and building physics solutions for the design problem adopted in the subject of the engineering diploma thesis
C3	Acquiring the ability to use the knowledge gained in the learning process in the field of complex guidelines for the designed solutions for building installations for the design problem adopted in the subject of the engineering diploma thesis
C4	Demonstrating the ability to creatively use professional literature when solving a problem in a selected area of industry design

Preliminary requirements in terms of knowledge, skills and other competencies	
1	Knows the basics of architectural and urban design
2	Has knowledge in the field of construction, materials science, building physics, building structures and building installations constituting the equipment of a building object

Learning outcomes	
	In terms of knowledge:
EK 1	is able to prepare an architectural design taking into account the issues of the multi-sector nature of architectural and urban design and the need to cooperate with other specialists
EK 2	Can propose conceptual, complex design solutions for the diploma project

EK 3	Can propose conceptual, complex construction, material and building-physics solutions in the field of the diploma project
EK 4	Is able to propose conceptual, complex solutions of installations constituting the equipment of a building object in the scope of the diploma project, propose conceptual, complex construction, material and building-physics solutions in the scope of the diploma project
	In terms of social competence:
EK 5	Is ready to accept criticism of the solutions he/she presents and to respond to it clearly and to the point
EK 6	Is ready to use information technology to integrate with other participants in the design process, including presenting designs and providing feedback in a commonly understood manner

Course content	
Form of classes – project	
	Course content
P1	Development of the assumptions and guidelines for the construction of a building object specified in the scope of the master's thesis project
P3	Development of the assumptions and guidelines for construction, material and building-physics solutions for a building object specified in the scope of the master's thesis project
P2	Development of assumptions and guidelines for construction installations of the building object specified in the scope of the master's thesis project

Teaching methods	
1	Individual consultations with a specialist in the field of building structures (diploma corrections)
2	Individual consultations with a specialist in the field of construction, material and building physics solutions (diploma corrections)
3	Individual consultations with a specialist in the field of building installations constituting the facility equipment (diploma corrections)
4	Independent work of a graduate student with the use of literature on the subject of the engineer thesis and instructions obtained from the thesis supervisor and industry consultants

Methods and criteria of assessment		
Symbol of the assessment method	**Description of the assessment method**	**Passing threshhold**
O1	Revision of the diploma thesis in the field of building structures	51%
O2	Revision of the diploma thesis in the field of construction, material and building physics solutions	51%

O3	Revision of the diploma thesis in the field of construction installations constituting the equipment of the facility	51%

Required reading	
1	Landecka H., Kwiatkowski B., Przesmycka N.; Standard pracy dyplomowej magisterskiej na kierunku studiów „architektura” w Politechnice Lubelskiej, Politechnika Lubelska, 2020 r
2	Basic literature on the adopted topic of the engineer diploma thesis
Supplementary reading	
1	Supplementary literature on the adopted topic of the engineer diploma thesis

Student workload	
Student activity form	**Average number of hours needed to complete the activity**
Contact hours with the lecturer, including:	**15**
Individual consultations with a specialist in the field of building structures	6
Individual consultations with a specialist in the field of building, material and building physics solutions	6
Individual consultations with a specialist in the field of construction installations constituting the facility's equipment	3
Student self-study, including:	**10**
Preparation of design solutions for the diploma project	4
Preparation of construction, material and building physics solutions in the scope of the diploma project	3
Preparation of building installation solutions constituting the facility's equipment in the scope of the diploma project	3
Total student workload	**25**
Total ECTS credits for the module/subject:	**1**

Learning outcomes matrix					
Symbol of the learning outcome for the course	**Reference of a particular learning outcome to outcomes defined for the field of study together with the degree of correlation**	**Course objectives**	**Course content**	**Teaching methods**	**Methods of assessment**
EK 1	A2A_U03 +++	C1, C2, C3	P1, P2, P3	1, 2, 3, 4	O1, O2, O3
EK 2	A2A_U07 ++ A2A_U11 +++ A2A_U17 +++	C1, C4	P1	1, 4	O1

EK 3	A2A_U07 ++ A2A_U11 +++ A2A_U17 +++	C2, C4	P2	2, 4	O2
EK 4	A2A_U17 +++ A2A_U07 ++	C3, C4	P3	3, 4	O3
EK 5	A2A_K01 +++ A2A_K03 +++	C1, C2, C3	P1, P2, P3	1, 2, 3, 4	O1, O2, O3
EK 6	A2A_K05 +++ A2A_K09 +++	C1, C2, C3	P1, P2, P3	1, 2, 3, 4	O1, O2, O3

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Course syllabus
Field of study: Architecture
Second-cycle study

Course:	Diploma seminar
Type of course:	Course from group D.
Code of course:	IID.1.3.
Year:	IV
Semester:	VII
Mode of study:	Full-time
Form of classes and number of contact hours per semester:	45
Lecture	-
Classes	-
Laboratory	-
Project	45
Number of ECTS credits:	2
Form of assessment:	Credit
Language of instruction:	Polish

Course objectives	
C1	Acquiring the ability to independently perform an analysis of complex conditions for the purposes of developing an architectural or urban design, which is the subject of the master's thesis
C2	Acquiring knowledge about the rules of writing a scientific work

Preliminary requirements in terms of knowledge, skills and other competencies	
1	Knowledge and skills that allow a student to independently carry out an architectural or urban design study

Learning outcomes	
	In terms of knowledge:
EK 1	Knows and understands advanced issues related to architecture and urban planning useful for designing architectural objects and urban complexes in the context of social, cultural, natural, historical, economic and legal conditions and other non-technical conditions of engineering activity, integrating the knowledge acquired during studies
EK 2	Knows and understands the principles of professional presentation of architectural and urban concepts as well as the principles of collecting information and its interpretation as part of the preparation of a design concept
	In terms of skills:
EK 3	Can obtain information from literature, databases and other properly selected sources; also in a foreign language recognized as the language of international communication in the field of architecture and urban planning. He/she can present the theoretical background and justification of the presented solutions in the form of a scientific study

EK 4	Is able to integrate the obtained information, interpret and critically evaluate it, use analytical methods to formulate and solve design tasks.
	In terms of social competence:
EK 5	Is ready to accept the criticism of the proposed and presented solutions and to respond to it in a clear and matter-of-fact manner, also using arguments referring to the achievements of the scientific discipline, as well as to use this criticism in a creative and constructive manner
EK 6	Is ready to formulate and present opinions on architecture, urban planning, monument conservation and spatial planning and their conditions, as well as other aspects of the architect's activity; provide an opinion in a commonly understandable manner
EK 7	Is ready to make public appearances and presentations

Course content	
Form of classes – seminar	
	Course content
S1	Analysis of spatial, social, legal, etc. conditions related to the location of the diploma project
S2	Development of the functional layout of the designed facility, corresponding to the initial assumptions. Selection of formal, material and construction solutions
S3	Preparation and presentation of the various stages of the design development and part of the written work

Teaching methods	
1	Problem lecture and seminar lecture, presentations of sample design solutions
2	Individual corrections of design works
3	Working with source material
4	Public discussion and presentation

Methods and criteria of assessment		
Symbol of the assessment method	**Description of the assessment method**	**Passing threshold**
O1	Active participation in class discussions	Forming assessment without a passing threshold
O2	Making and presenting a presentation on a given topic	70%
O3	Writing an elaboration or a specific exerpt of the research work falling within the scope of the master's diploma (theoretical part of the diploma thesis)	___

Required reading	
1	Individually selected for the selected topic of diploma theses
2	Dobre obyczaje w nauce: zbiór zasad i wytycznych. - Wyd.3 zm. - Warszawa : Polska Akademia Nauk. Komitet Etyki w Nauce przy Prezydium Polskiej Akademii Nauk, 2001

3	Jak pisać prace uniwersyteckie: poradnik dla studentów / Paul Oliver ; przekł. [z ang.]. - Kraków : Wydaw. Literackie, 1999
Supplementary reading	
1	Technika pisania prac magisterskich : krótki przewodnik po metodologii pisania pracy dyplomowej / Radosław Zenderowski. - Warszawa: CeDeWu, [ca 2005]

Student workload	
Student activity form	**Average number of hours needed to complete the activity**
Contact hours with the lecturer, including:	**45**
Participation in seminars	45
Student self-study, including:	**10**
Preparation of an exerpt of the theoretical part of the diploma thesis	10
Total student workload	**55**
Total ECTS credits for the module/subject:	**2**

Learning outcomes matrix					
Symbol of the learning outcome for the course	**Reference of a particular learning outcome to outcomes defined for the field of study together with the degree of correlation**	**Course objectives**	**Course content**	**Teaching methods**	**Methods of assessment**
EK 1	A2A_W02 ++ A2A_W04 +++ A2A_W06 +++ A2A_W07 +++	C1, C2	S1, S3	1, 2, 4	O1, O2
EK 2	A2A_W20 +++	C1, C2	S1, S2, S3	1, 4	O2
EK 3	A2A_U01 +++ A2A_U02 ++ A2A_U15 ++	C1, C2	S1, S2, S3	1, 2, 3, 4	O1, O2
EK 4	A2A_U03 +++ A2A_U11 ++	C1, C2	S1, S2, S3	1, 2, 3, 4	O1, O2, O3
EK 5	A2A_K01 +++ A2A_K03 +++	C2	S3	1, 2, 3, 4	O1, O3
EK 6	A2A_K05 +++ A2A_K09 +++	C1, C2	S3	3, 4	O1, O2, O3
EK 7	A2A_K05 ++ A2A_K09 ++	C1, C2	S3	1, 4	O1, O2, O3

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Organizational unit:	Department of Architecture and Urban Planning

Course syllabus
Field of study: Architecture
Second-cycle study

Course:	Preparation for the diploma examination
Type of course:	Course from group D.
Code of course:	IID.1.4.
Year:	II
Semester:	III
Mode of study:	Full-time
Form of classes and number of contact hours per semester:	20
Seminary	20
Number of ECTS credits:	1
Form of assessment:	Credit
Language of instruction:	Polish

Course objectives	
C1	Obtaining by the student the necessary knowledge to pass the diploma examination
C2	Acquiring by the student the ability to present the master's thesis at the diploma examination

Preliminary requirements in terms of knowledge, skills and other competencies	
1	Possessing the ability to independently and creatively think and transfer the knowledge gained during the graduate studies
2	Posessing knowledge and understanding of the principles of architectural and urban design

Learning outcomes	
	In terms of knowledge:
EK 1	Knows and understands the detailed issues related to architecture and urban planning in the field of complex design problems
EK 2	Knows and understands the rules of professional presentation of architectural and urban concepts
	In terms of skills:
EK 3	Is able to present the theoretical background and justification of the presented solutions in the form of a scientific study
	In terms of social competence:
EK 4	Is ready to properly prioritize actions to accomplish the task
EK 5	Is ready to accept criticism of the proposed solutions and to respond to it in a clear and substantive manner, also using arguments referring to the achievements of the scientific discipline, as well as to use this criticism in a creative and constructive manner.
EK 6	Is ready to make public appearances and presentations

Course content

Form of classes – lecture	
	Course content
W1	The specificity of the MA diploma examination in the field of architecture
W2	Exam issues for the written and oral part of the master's diploma examination
W3	Similarities and differences between the diploma examination at master's and engineering studies
W4	Methodology for the presentation and transfer of knowledge gained during second-cycle studies
W5	Oral defending of the thesis, presentation of the thesis

Teaching methods	
1	Discussing examination issues
2	Presenting individual issues developed by students
3	Seminar lecture on issues related to the diploma examination

Methods and criteria of assessment		
Symbol of the assessment method	**Description of the assessment method**	**Passing threshold**
O1	Credit for a prepared written selection of an exam topic or group of exam topics	70%
O2	Oral credit of a selected exam topic (presentation)	70%

Required reading	
1	Niezabitowska E., Metody i techniki badawcze w architekturze, Wydawnictwo Politechniki Śląskiej, Gliwice 2014
2	Szkutnik Z., Metodyka pisania pracy dyplomowej: skrypt dla studentów, Wydawnictwo Poznańskie, Poznań 2009
3	Diploma schedule - full-time second-cycle studies in force in a given academic year
4	Resolution No. 11/2017 / IV of the Senate of the Lublin University of Technology of April 27, 2017 on the adoption of the Rules of Study at the Lublin University of Technology, the Council of the Faculty of Civil Engineering and Architecture at the meeting on June 7, 2017, adopts "Internal regulations for conducting diploma theses and diplomas at the Faculty of Construction and Architecture Department of Lublin University of Technology "
5	List of applicable questions for the written part of the second degree diploma examination full-time studies - major in architecture
Supplementary reading	
1	Individual arrangements depending on the specificity of the diploma examination issues

Student workload	
Student activity form	**Average number of hours needed to complete the activity**
Contact hours with the lecturer, including :	**20**
Participation in classes	20
Student self-study, including:	**5**

Preparation of the required examination issue of the Master's thesis	5
Total student workload	**25**
Total ECTS credits for the module/subject:	**1**

Learning outcomes matrix					
Symbol of the learning outcome for the course	**Reference of a particular learning outcome to outcomes defined for the field of study together with the degree of correlation**	**Course objectives**	**Course content**	**Teaching methods**	**Methods of assessment**
EK 1	A2A_W02 +++ A2A_W03 +++ A2A_W04 +++ A2A_W11 +++ A2A_W19 +++	C1	W2	1, 2, 3	O1, O2
EK 2	A2A_W20 +++	C1	W4, W5	2, 3	O2
EK 3	A2A_U01 +++ A2A_U02 +++ A2A_U16 +++	C2	W1, W4, W5	1, 2, 3	O1, O2
EK 4	A2A_K01 ++ A2A_K02 ++	C1, C2	W3, W4	3	O2
EK 5	A2A_K03 ++ A2A_K04 ++	C1, C2	W1, W4, W5	1, 2, 3	O1, O2
EK 6	A2A_K05 ++ A2A_K09 ++	C1, C2	W1, W5	2	O2

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Course syllabus
Field of study: Architecture
Second-cycle study

Course:	Thesis
Type of course:	Course from group D.
Code of course:	IID.1.5.
Year:	II
Semester:	III
Mode of study:	Full- time
Form of classes and number of contact hours per semester:	Not applicable
Lecture	-
Classes	-
Laboratory	-
Project	-
Number of ECTS credits:	20
Form of assessment:	Submission of the diploma thesis
Language of instruction:	Polish

Course objectives	
C1	Acquiring the ability to use the knowledge gained in the education process in solving the problem adopted in the subject of the master's thesis in the field of architectural and urban design
C2	Acquiring skills and competences regarding the professional presentation of the adopted design solutions in the field of architecture and urban planning in the form of a compact written and drawing study
C3	Demonstrating the ability to use professional literature creatively in solving a problem in a selected area of architecture and urban planning

Preliminary requirements in terms of knowledge, skills and other competencies	
1	Knows the principles of architectural and urban design
2	Has advanced knowledge of the determinants of architectural and urban design with regard to location
3	Is able to use the complex workshop techniques of the architect profession

Learning outcomes	
	In terms of knowledge:
EK 1	Knows and understands the detailed problems of architecture and urban planning in the field of solving complex design problems
EK 2	Knows and understands advanced issues related to architecture and urban planning useful for designing architectural objects and urban complexes in the context of social, cultural , natural , historical, economic, legal and other non-technical conditions of engineering activity, integrating the knowledge acquired during studies

EK 3	Knows and understands the principles of solutions, structures, building materials used in the performance of engineering tasks in the field of architectural and urban design
EK 4	Knows and understands the issues related to architecture and urban planning in the context of the multi-sector nature of architectural and urban design and the need to cooperate with other specialists
EK 5	Knows and understands the principles of professional presentation of architectural and urban concepts
	In terms of skills:
EK 6	Is able to make a critical analysis of the existing conditions, valorize the state of land development and buildings and formulate conclusions for design in a complex, interdisciplinary context
EK 7	Can design a complex architectural object or urban complex, creating and transforming space so as to give it new values - in accordance with the adopted program, taking into account non-technical aspects and integrating interdisciplinary knowledge and skills acquired during studies
EK 8	Is able to prepare an advanced graphic, written and oral presentation of their own design concepts in the field of architecture and town planning, meeting the requirements of a professional record appropriate for architectural and urban design
EK 9	Can use analytical methods to formulate and solve project tasks
EK 10	Is able to present the theoretical background and justification of the presented solutions in the form of a scientific study
EK 11	Has the ability to organize work taking into account all phases of work on a design concept
	In terms of social competence:
EK 12	Is ready to effectively use imagination, intuition, creative attitude and independent thinking to solve complex design problems
EK 13	Is ready to accept criticism of the presented solutions and to respond to it clearly and to the point
EK 14	Is ready to make public appearances and presentations
EK 15	Is ready to accept criticism of the presented solutions and to respond to it in a clear and matter-of-fact manner, also using arguments referring to the achievements of the scientific discipline, as well as to use this critique creatively and constructively
EK 16	Is ready to formulate and transmit to the public information and opinions on the achievements of architecture and town planning, their complex conditions, and other aspects of the architect's activity, providing an opinion in a commonly understandable manner
EK 17	Is ready to properly prioritize actions to accomplish the task

Teaching methods	
1	Individual consultations with the thesis supervisor (revision)
2	Independent work of a graduate student with the use of literature on the subject of the engineer thesis and instructions obtained from the thesis supervisor and industry consultants

Methods and criteria of assessment

Symbol of the assessment method	Description of the assessment method	Passing threshold
O1	Completion of the whole diploma thesis	——

Required reading	
1	Landecka H., Kwiatkowski B., Przesmycka N.; Standard pracy dyplomowej magisterskiej na kierunku studiów „architektura” w Politechnice Lubelskiej, Politechnika Lubelska, 2020 r
2	Basic literature on the adopted topic of the engineer diploma thesis
3	Local law acts specifying the terms and conditions of development for the area adopted in the subject of the master's thesis
Supplementary reading	
1	Supplementary literature on the accepted topic of the master's thesis
2	National legal acts in architectural design regarding the adopted topic of the engineering diploma thesis

Student workload	
Student activity form	**Average number of hours needed to complete the activity**
Contact hours with the lecturer, including:	**25**
Individual consultations with the thesis supervisor	25
Student self-study, including:	**475**
Preparation of an engineering diploma thesis	430
Making a mockup / model	20
Preparation of boards and an oral presentation to defend an engineering diploma thesis	25
Total student workload	**500**
Total ECTS credits for the module/subject:	**20**

Learning outcomes matrix					
Symbol of the learning outcome for the course	**Reference of a particular learning outcome to outcomes defined for the field of study together with the degree of correlation**	**Course objectives**	**Course content**	**Teaching methods**	**Methods of assessment**
EK 1	A2A_W02 +++	C1, C3	-	1, 2	O1
EK 2	A2A_W02 +++ A2A_W04 ++	C1, C3	-	1, 2	O1
EK 3	A2A_W01 ++ A2A_W06 ++ A2A_W07 +++ A2A_W19 +++	C1, C3	-	1, 2	O1
EK 4	A2A_W06 +++	C1, C3	-	1, 2	O1
EK 5	A2A_W20 +++	C2	-	1, 2	O1

EK 6	A2A_U12 +++	C1, C3	-	1, 2	O1
EK 7	A2A_U03 +++ A2A_U11 +++	C1	-	1, 2	O1
EK 8	A2A_U10 +++ A2A_U15 +++	C2	-	1, 2	O1
EK 9	A2A_U13 +++ A2A_U18 +++	C1	-	1, 2	O1
EK 10	A2A_U02 +++ A2A_U11 +++ A2A_U16 +++	C2, C3	-	1, 2	O1
EK 11	A2A_U03 +++ A2A_U17 ++ A2A_U18 +++	C1, C3	-	1, 2	O1
EK 12	A2A_K03 +++	C1, C3	-	1, 2	O1
EK 13	A2A_K03 +++	C1, C3	-	1, 2	O1
EK 14	A2A_K05 ++ A2A_K09 +++	C1, C3	-	1, 2	O1
EK 15	A2A_K01 +++	C2	-	1, 2	O1
EK 16	A2A_K05 +++ A2A_K09 +++	C1, C3	-	1, 2	O1
EK 17	A2A_K01 ++ A2A_K06 +++	C1, C3	-	1, 2	O1

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Course syllabus
Field of study: Architecture
Second-cycle study

Course:	Construction practice
Type of course:	Vocational practice
Code of course:	IIP.1.
Year:	I
Semester:	I
Mode of study:	Stationary
Form of classes and number of contact hours per semester:	60
Practise	60
Number of ECTS credits:	2
Form of assessment:	Credit
Language of instruction:	Polish

Course objectives	
C1	To familiarize students with the organization of the construction site and the course of construction works, the role of individual construction participants and the accompanying documentation. It is especially important to pay attention to the role of the architect in the construction process
C2	Getting to know in practice issues in the field of execution and general construction

Preliminary requirements in terms of knowledge, skills and other competencies	
1	Basic knowledge of general construction and construction technologies
2	Ability to work in a group, adapting to the recommendations of the site manager or supervisor

Learning outcomes	
	In terms of knowledge:
EK 1	Student knows the rules of organization of work on the construction site, the specificity of individual construction works and understands their relationship with the adopted design solutions. He knows the role and scope of responsibilities of individual participants in the construction process and people working on the construction site
	In terms of skills:
EK 2	Student can interpret the records of the construction and detailed design, and the construction log
EK 3	Student can assess the correctness of the execution of selected construction works in relation to the solutions adopted in the design
	In terms of social competence:
EK 4	Student is ready to act in accordance with the health and safety rules on the construction site, has the ability to work in a group and follow the instructions of the supervisor

EK 5	Student is aware of the designer's responsibility for the adopted construction solutions, and for the proper execution of the construction and working design

Form of classes – vocational practice	
	Course content:
PB1	Getting to know the health and safety rules on the construction site and the specificity of the organization of the construction site
PB2	Acquainting with the design documentation on the construction site
PB3	Observation of the various stages of construction (if possibile, also active participation) and the adopted technological and executive solutions

Teaching methods	
1	Observation, didactic discussion
2	Participation in simple construction works

Methods and criteria of assessment		
Symbol of the assessment method	**Description of the assessment method**	**Passing threshold**
O1	Opinion about the trainee prepared by the tutor of the practice on the construction site	Formative assessment (no pass threshold)
O2	Evaluation of the intern by the Dean's Internship Representative	Formative assessment (no pass threshold)

Required reading	
1	The Construction Law Act
2	Construction log, design documentation on the construction site, indicated by the site practice supervisor
Supplementary reading	
1	Indicated by the supervisor of the practice at the construction site

Student workload	
Student activity form	**Average number of hours needed to complete the activity**
Contact hours with the lecturer, including:	**60**
Attendance at the construction site	60
Total student workload	**60**
Total ECTS credits for the subject:	**2**

Learning outcomes matrix					
Symbol of the learning outcome for the course	**Reference of a particular learning outcome to outcomes defined for the field of study together with the degree of correlation**	**Course objectives**	**Course content**	**Teaching methods**	**Methods of assessment**

EK 1	A2A_W02 ++ A2A_W06 +++ A2A_W07 ++ A2A_W08 ++	C1	PB1, PB2, PB3	1	O1, O2
EK 2	A2A_U02 +++ A2A_U07 +++	C1, C2	PB1, PB2, PB3	1, 2	O1, O2
EK 3	A2A_U17 +++	C1, C2	PB1, PB2, PB3	1, 2	O1, O2
EK 4	A2A_K02 +++	C1, C2	PB1, PB2, PB3	1, 2	O1, O2
EK 5	A1A_K03 +++ A1A_K06 ++	C1, C2	PB1, PB2, PB3	1, 2	O1, O2

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Course syllabus
Field of study: Architecture
Second-cycle study

Course:	Scientific Information
Type of course:	Course required by the Resolution of the Senate of the LUT
Code of course:	IIU.1.
Year:	I
Semester:	II
Mode of study:	Full-time
Form of classes and number of contact hours per semester:	2
Lecture	1
Classes	1
Laboratory	-
Project	-
Number of ECTS credits:	0
Form of assessment:	Credit
Language of instruction:	Polish

Course objectives	
C1	Making students acquainted with the sources of scientific information including printed and electronic resources of the CIN-T PL (Scientific-Technical Information Centre of the LUT) library as well as with the electronic resources available on the Internet
C2	Presenting ways of searching for literature in the electronic resources
C3	Getting acquainted with the methods of management of the scientific information taken from various sources (programmes for literature management)
C4	Presenting the methods of verification of search results, their selection and use at work in accordance with the principles of ethics and copyright
C5	Getting acquainted with the principles of creating an attachment bibliography and using the bibliography manager
C6	Getting acquainted with the sources of standardization and patent information

Preliminary requirements in terms of knowledge, skills and other competencies	
1	Computer skills
2	Knowledge of basic information techniques

Learning outcomes	
	In terms of knowledge:
EK 1	Student has necessary knowledge to use the printed resources of the library
EK 2	Student has necessary knowledge to use the knowledge portals, digital libraries, databases and scientific Internet services
	In terms of skills:

EK 3	Student has the ability to use search tools of computer library catalogues, electronic knowledge resources and databases
EK 4	Student has the ability to organise his/her own information workshop necessary for scientific work
	In terms of social competences:
EK 5	Student has the competence of conscious selection and use of printed library resources and electronic resources necessary in the process of education and self-education

Course content	
Form of classes – lecture	
	Course content
W1	• General information about the information resources. Types of information resources. Printed and electronic sources of scientific information. Information and search languages. Domain classification on the example of selected databases. Keyword indexes. Rules for creating queries with the use of Bool operators. Basic and advanced search in Google Scholar • Central catalogues in Poland and in the world - NUKAT, World Cat – presentation of catalogues and their role in locating sources. Exemplary searches • Library catalogues and bibliographic databases – similarities and differences • Digital libraries. Collections of scripts, textbooks and theses • University repositories and other Open Access resources • Full-text databases: e-magazines and e-books – E-reading room on the site of the LUT Library • Standardization and patent information. Presentation of standardization and patent bases (Polish, European, American) • Using literature in accordance with the principles of scientific ethics and the respect for copyright. Attachment bibliography: bibliographic description, quotations and footnotes • The possibility of saving data, creating alerts, data export to other program mes. Locating searched sources and access to them • Creating one's own bibliographic bases. Literature management – bibliography manager
Form of classes – classes	
	Course content
CW1	• Searching literature in catalogues, digital libraries and databases * Selection and verification of the searched documents • Creating a bibliographic description in the attachment bibliography • Downloading data descriptions and recording them to the bibliography manager

Teaching methods	
1	Lecture with a multimedia presentation
2	Classes

Methods and criteria of assessment

Symbol of the assessment method	Description of the assessment method	Passing threshold
O1	Written credit in the form of a test	70%

Required reading	
1	Dyplom z internetu: jak korzystać z internetu pisząc prace dyplomowe? / Kazimierz Pawlik, Radosław Zenderowski. Warszawa, 2013
Supplementary reading	
1	Poradniki i instrukcje w zakładce „dla studentów” www.biblioteka.pollub.pl/dlastudentow
2	http://biblioteka.pollub.pl

Student workload	
Student activity form	**Average number of hours needed to complete the activity**
Contact hours with the lecturer, including:	**2**
Participation in lectures	1
Participation in classes	1
Total student workload	**2**
Total ECTS credits for the subject	**0**

Learning outcomes matrix					
Symbol of the learning outcome for the course	**Reference of a particular learning outcome to outcomes defined for the field of study together with the degree of correlation**	**Course objectives**	**Course content**	**Teaching methods**	**Methods of assessment**
EK 1	A2A_W20 ++	C1, C2, C3, C4, C5, C6	W1, CW1	1, 2	O1
EK 2	A2A_W20 ++	C1, C2, C3, C4, C5, C6	W1, CW1	1, 2	O1
EK 3	A2A_U01 +++ A2A_U02 +++ A2A_U10 ++ A2A_U18 +++	C1, C2, C3, C4, C5, C6	W1, CW1	1, 2	O1
EK 4	A2A_U01 +++ A2A_U02 +++ A2A_U10 ++ A2A_U18 +++	C1, C2, C3, C4, C5, C6	W1, CW1	1, 2	O1
EK 5	A2A_K01 +++ A2A_K03 +++ A2A_K04 ++	C1, C2, C3, C4, C5, C6	W1, CW1	1, 2	O1

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Course syllabus
Field of study: Architecture
Second-cycle study

Course:	Occupational Health and Safety
Type of course:	Subjects required by a Resolution of the LUT Senate
Code of course:	IIU.2.
Year:	I
Semester:	I
Mode of study:	Full-time
Form of classes and number of contact hours per semester:	4
Lecture	4
Classes	-
Laboratory	-
Project	-
Number of ECTS credits:	0
Form of assessment:	Credit
Language of instruction:	Polish

Course objectives	
C1	Making the students acquainted with the sources of occupational risk in construction and the methods of occupational risk management

Preliminary requirements in terms of knowledge, skills and other competencies	
1	Knowledge of Basic OHS regulations in the implementation of construction works

Learning outcomes	
	In terms of knowledge:
EK 1	Student knows the methodology of occupational risk management in construction
EK 2	Student knows the rules of preparing information and a safety and health protection plan
	In terms of social competence:
EK 3	Student is ready to supplement his knowledge in the selection of technical and organisational measures in order to improve health and safety conditions

Course content	
Form of classes – lecture	
	Course content
W1	Occupational risk in construction. Methodology of occupational risk management. Information and bio-plan

Teaching methods	
1	Informative lecture
Methods and criteria of assessment	

Symbol of the assessment method	Description of the assessment method	Passing threshold
O1	Written credit (a set of test questions)	51%

Required reading	
1	Wieczorek Z.: Budownictwo. Wymagania bezpieczeństwa pracy. GIP, Warszawa 2010
Supplementary reading	
1	Rozporządzenie Ministra Infrastruktury z dnia 23 czerwca 2003 r. w sprawie informacji dotyczącej bezpieczeństwa i ochrony zdrowia oraz planu bezpieczeństwa i ochrony zdrowia

Student workload	
Student activity form	**Average number of hours needed to complete the activity**
Contact hours with the lecturer, including:	**4**
Participation in lectures	4
Student self-study, including:	**2**
Preparation for getting credit for the lectures	2
Total student workload	**6**
Total ECTS credits for the subject	**0**

Learning outcomes matrix					
Symbol of the learning outcome for the course	**Reference of a particular learning outcome to outcomes defined for the field of study together with the degree of correlation**	**Course objectives**	**Course content**	**Teaching methods**	**Methods of assessment**
EK 1	A2A_W09 +	C1	W1	1	O1
EK 2	A2A_W09 +	C1	W1	1	O1
EK 3	A2A_K03 + A2A_K04 +	C1	W1	1	O1

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Annex 4

1. Matrix of methods of verification and assessment of learning outcomes

Field of study: Architecture Second cycle

The method of checking the accomplishment of the learning outcome		Written exam	Oral exam	Written test pass	Oral tesst pass	Written or oral test	Conducting laboratory tests	Reports on laboratory tests performed	Degree of advancement and correctness of project implementation (revision)	Implementation of the project	Oral or written defending of the project	Activity in class	Presentation
KNOWLEDGE													
A2A_W01	has extended and in-depth knowledge of mathematics, physics and chemistry useful for the field of architecture and urban planning	+		+					+	+	+		
A2A_W02	has extended knowledge of architectural, urban and conservation design and spatial planning	+	+	+	+	+	+		+	+	+	+	+
A2A_W03	has extended knowledge of the history and theory of architecture, urban planning theory, fine arts, technical sciences and humanities	+	+	+	+					+		+	+
A2A_W04	has an extensive knowledge of shaping the human environment, taking into account the relationships between people and architectural objects and the surrounding space.	+	+	+	+				+	+		+	+
A2A_W05	knows the procedures for the development of architectural designs, taking into account social factors	+		+	+					+			
A2A_W06	knows the rules of solving functional, utility and construction problems to the extent that ensures the safety and comfort of use of facilities, including for people with disabilities.	+		+	+				+	+	+	+	+
A2A_W07	knows the principles of solving structural, engineering, and technological problems in various architectural structures.	+		+		+	+			+		+	+
A2A_W08	is familiar with technical and construction regulations and procedures, as well as with the issues concerning design economics	+		+		+						+	
A2A_W09	knows the rules for the implementation and the use of an architectural object and the organization of the investment process	+		+		+			+	+			

The method of checking the accomplishment of the learning outcome		Written exam	Oral exam	Written test pass	Oral tesst pass	Written or oral test	Conducting laboratory tests	Reports on laboratory tests performed	Degree of advancement and correctness of project implementation (revision)	Implementation of the project	Oral or written defending of the project	Activity in class	Presentation
A2A_W10	knows the rules of integrating plans with national and European Union planning projects	+		+						+			
A2A_W11	knows the principles of green building design and urban design in the context of sustainable development			+						+			+
A2A_W12	knows and understands the interdisciplinary considerations of urban design.	+	+	+	+	+				+		+	
A2A_W13	knows and understands the role of the architectural profession in the society and applies the rules of professional ethics			+	+								
A2A_W14	knows and understands the principles of shaping the space of cities and regions	+		+		+				+		+	
A2A_W15	knows the principles and methods of architectural protection of historic buildings, historic urban complexes and cultural landscape	+		+						+			
A2A_W16	knows and understands the basic problems of spatial and regional planning in the context of implementing state spatial policy	+		+						+			
A2A_W17	has a basic knowledge of management, including quality management and business.			+		+							
A2A_W18	knows the principles of designing small functional forms	+								+			
A2A_W19	knows materials and technologies used in modern construction	+		+			+		+	+	+		+
A2A_W20	knows and understands the principles of professional presentation of architectural and urban planning concepts and the principles of collecting information and its interpretation within the framework of the design concept preparation			+		+			+	+		+	+
SKILLS													

The method of checking the accomplishment of the learning outcome		Written exam	Oral exam	Written test pass	Oral tesst pass	Written or oral test	Conducting laboratory tests	Reports on laboratory tests performed	Degree of advancement and correctness of project implementation (revision)	Implementation of the project	Oral or written defending of the project	Activity in class	Presentation
A2A_U01	is able to acquire information from literature, databases and other properly selected sources, also in a foreign language recognized as the language of international communication within the scope of architecture and urban planning	+	+	+	+	+			+	+	+	+	+
A2A_U02	is able to integrate the obtained information, interpret and critically evaluate it, as well as draw conclusions, and formulate and exhaustively justify opinions for the needs of complex architectural design	+	+	+	+		+	+	+	+	+	+	+
A2A_U03	is able to develop advanced architectural designs of buildings and their surroundings in accordance with technical, utility, aesthetic and cultural requirements	+							+	+	+	+	+
A2A_U04	has the skills to develop a planning project, including local plans	+								+	+	+	+
A2A_U05	is able to conduct architectural and historical research and formulate conservation conclusions								+	+	+		+
A2A_U06	is able to perform design and adaptation studies of architectural monuments and historical urban complexes	+							+	+	+		
A2A_U07	can assess the usefulness and the possibility of using modern materials, techniques and technologies	+		+		+	+		+	+	+	+	
A2A_U08	is able to draw up spatial development plans									+	+	+	+
A2A_U09	has language skills in the field of architecture and urban planning which correspond to level B2+ of the Common European Framework of Reference for Languages	+	+	+	+	+				+			
A2A_U10	can use information and communication techniques appropriate to the implementation of architectural, urban, conservation and planning projects			+			+	+	+	+	+	+	+

The method of checking the accomplishment of the learning outcome		Written exam	Oral exam	Written test pass	Oral tesst pass	Written or oral test	Conducting laboratory tests	Reports on laboratory tests performed	Degree of advancement and correctness of project implementation (revision)	Implementation of the project	Oral or written defending of the project	Activity in class	Presentation
A2A_U11	is able to integrate knowledge from different fields of science (theory of architecture and urban planning, fine arts, technical sciences and humanities) in solving design tasks	+	+	+	+				+	+	+	+	+
A2A_U12	is able to critically evaluate an architectural work or an urban layout, taking into account the relationships between people and architectural objects and the surrounding space	+	+	+	+				+	+	+	+	+
A2A_U13	is able to shape human environment, taking into account the relations between people and architectural objects and the surrounding space in the context of sustainable development			+	+	+			+	+	+	+	+
A2A_U14	is able to prepare a spatial development project for areas of various sizes, taking into account non-technical conditions and anticipating the consequences of planning decisions made									+	+	+	+
A2A_U15	has the ability to use a variety of workshop techniques to present an architectural and planning study								+	+		+	+
A2A_U16	has the skills necessary to undertake research and creative activities in the field of architectural and urban design									+			+
A2A_U17	is able to coordinate as well as to manage the work of a multi-sector design team, cooperate with its members and discuss professional issues			+	+	+	+	+	+	+		+	
A2A_U18	is able to independently plan and implement his/her own learning throughout life and direct others in this regard			+						+			
SOCIAL COMPETENCES													
A2A_K01	is ready to assess the reliability of the obtained results of his/her own work and of the work of his/her subordinates, as well as to consult experts in case of difficulties with solving the problem independently	+	+	+	+	+	+	+	+	+	+	+	+

The method of checking the accomplishment of the learning outcome		Written exam	Oral exam	Written test pass	Oral tesst pass	Written or oral test	Conducting laboratory tests	Reports on laboratory tests performed	Degree of advancement and correctness of project implementation (revision)	Implementation of the project	Oral or written defending of the project	Activity in class	Presentation
A2A_K02	is willing to evaluate the safety of his/her own and the team's work	+	+	+	+	+			+	+	+	+	+
A2A_K03	is ready to critically evaluate the acquired knowledge and received contents, recognize its importance in solving problems, and on this basis - to independently complement and expand it, especially in the field of modern trends of architectural and urban design	+	+	+	+	+	+		+	+	+	+	+
A2A_K04	is ready to improve his/her professional and personal competences, as well as to take care of the achievements of the profession and its ethos	+	+	+	+	+	+		+	+	+	+	+
A2A_K05	is ready to communicate knowledge of architecture and urban planning to the public			+	+	+			+	+	+	+	+
A2A_K06	is ready to act in an entrepreneurial manner and observe ethical, economic and financial principles in the professional activity	+		+		+	+	+	+	+	+	+	
A2A_K07	is ready to actively participate in the life of the city, the region and the country , taking care of maintaining the history and traditions of local communities	+		+	+				+	+	+	+	+
A2A_K08	is ready to design in accordance with the principles of sustainable development in architecture and urban planning	+	+	+	+	+			+	+	+	+	+
A2A_K09	is ready to formulate and present opinions on architecture, urban planning, conservation of monuments and spatial planning	+	+	+	+	+			+	+	+	+	+

Symbols:
A – education in the field of study: Architecture
2 – second cycle studies
A – general academic profile

symbol after the underscore:
W – knowledge category
U – skills category
K – social competence category
01, 02, 03 and next - the number of the learning outcome

In terms of knowledge

Code	Learning outcome
A2A_W01	has extended and deepened knowledge of mathematics, physics and chemistry relevant to the field of study of architecture and urban planning
A2A_W02	has extended knowledge of architectural, urban and conservation design and spatial planning
A2A_W03	has extended knowledge of the history and theory of architecture, urban planning theory, fine arts, technical sciences and humanities
A2A_W04	has expanded knowledge in the field of shaping the human environment, taking into account the relationship between people, architectural objects and the surrounding space
A2A_W05	knows the procedures for developing designs for architectural structures with consideration of social factors
A2A_W06	knows the principles of solving functional, usability and construction problems to the extent ensuring safety and comfort of use of facilities, including the disabled
A2A_W07	knows the principles of solving structural, engineering and technological problems in various architectural objects
A2A_W08	is familiar with technical and construction regulations and procedures, as well as with issues concerning design economics
A2A_W09	knows the principles concerning the execution and use of architectural objects and the organisation of the investment process
A2A_W10	knows the principles of plans integration with planning projects in the country and in the countries of the European Union
A2A_W11	knows the principles of green building design and urban design in the context of sustainable development
A2A_W12	knows and understands the interdisciplinary considerations of urban design
A2A_W13	knows and understands the role of the architectural profession in the society and applies the rules of professional ethics
A2A_W14	knows and understands the principles of shaping the space of cities and regions
A2A_W15	knows the principles and methods of architectural protection of historic buildings, historic urban complexes and cultural landscape
A2A_W16	knows and understands the basic problems of spatial and regional planning in the context of implementing state spatial policy
A2A_W17	has basic knowledge of management, including quality management and business
A2A_W18	knows the principles of designing small functional forms
A2A_W19	knows materials and technologies used in modern construction
A2A_W20	knows and understands the principles of professional presentation of architectural and urban planning concepts and the principles of collecting information and its interpretation within the framework of preparing a design concept

SKILLS

Code	Learning outcome
A2A_U01	is able to acquire information from literature, databases and other properly selected sources, also in a foreign language recognized as the language of international communication within the scope of architecture and urban planning
A2A_U02	is able to integrate acquired information, interpret and critically evaluate it, draw conclusions, as well as formulate and fully justify opinions for complex architectural design
A2A_U03	is able to develop advanced architectural designs of buildings and their surroundings in accordance with technical, utility, aesthetic and cultural requirements
A2A_U04	has the skills to develop a planning project, including local plans
A2A_U05	is able to conduct architectural and historical research and formulate conservation conclusions
A2A_U06	is able to perform design and adaptation studies of architectural monuments and historical urban complexes
A2A_U07	is able to assess the usefulness and possibility of using modern materials, techniques and technologies
A2A_U08	is able to draw up land-use plans
A2A_U09	has language skills in the field of architecture and urban planning which correspond to level B2+ of the Common European Framework of Reference for Languages
A2A_U10	is able to use information and communication techniques appropriate for architectural, urban planning, conservation and planning projects
A2A_U11	is able to integrate knowledge from different fields of science (theory of architecture and urban planning, fine arts, technical sciences and humanities) in solving design tasks
A2A_U12	is able to critically assess an architectural or urban development work, taking into account the relationship between people, architectural objects and surrounding space
A2A_U13	is able to shape human environment taking into account the relations between people and architectural objects and surrounding space in the context of sustainable development
A2A_U14	is able to make a land development project for areas of different sizes, taking into account non-technical conditions and foreseeing the consequences of the planning decisions taken
A2A_U15	has the ability to use a variety of workshop techniques to present architectural and planning studies
A2A_U16	has the skills necessary to undertake research and creative activity in architectural and urban design
A2A_U17	is able to coordinate the work of a multidisciplinary project team, is able to manage the work of a multidisciplinary project team, cooperate with its members and discuss professional issues
A2A_U18	can independently plan and implement his/her own lifelong learning and guide others to do so

SOCIAL COMPETENCE

Code	Learning outcome
A2A_K01	is willing to assess the reliability of the results of his/her own and his/her subordinates' work and to seek expert advice in case of difficulty in solving the problem
A2A_K02	is willing to evaluate the safety of his/her own and the team's work
A2A_K03	is ready to critically assess acquired knowledge and the received contents, recognise its significance in solving problems, and on this basis - to independently complement and extend it, especially in the scope of modern trends of architectural and urban design
A2A_K04	is ready to improve his/her professional and personal competence as well as his/her care for the achievements and ethos of the profession
A2A_K05	is ready to communicate knowledge of architecture and urban planning to the public
A2A_K06	is ready to act in an entrepreneurial way and observe ethical, economic and financial principles in professional activity
A2A_K07	is ready to actively participate in the life of the city, region and country. Takes care to uphold the history and traditions of local communities
A2A_K08	is ready to design in accordance with the principles of sustainable development in architecture and urban planning
A2A_K09	is ready to formulate and present opinions on architecture, urban planning, conservation of monuments and spatial planning

In terms of attitudes: | In terms of skills: | W zakresie wiedzy:

Subject	Code	A2A_K09	A2A_K08	A2A_K07	A2A_K06	A2A_K05	A2A_K04	A2A_K03	A2A_K02	A2A_K01	A2A_U18	A2A_U17	A2A_U16	A2A_U15	A2A_U14	A2A_U13	A2A_U12	A2A_U11	A2A_U10	A2A_U09	A2A_U08	A2A_U07	A2A_U06	A2A_U05	A2A_U04	A2A_U03	A2A_U02	A2A_U01	A2A_W20	A2A_W19	A2A_W18	A2A_W17	A2A_W16	A2A_W15	A2A_W14	A2A_W13	A2A_W12	A2A_W11	A2A_W10	A2A_W09	A2A_W08	A2A_W07	A2A_W06	A2A_W05	A2A_W04	A2A_W03	A2A_W02	A2A_W01
Subjects from group A - Design																																																
Subjects of group A.1. - Architectural and urban design																																																
Advanced Architectural Design (E.)	IIA.1.1.		++					++			++					++		++								++				++	++											++		++	++		++	
Architectural Design in Historic Buildings (E.)	IIA.1.2.			++														++					++			++								++											++		++	
Specialized architectural projects (Module 1 - projects in historical buildings) (E.) - e	IIA.1.3.a							++														+	++			++	+++		+					++									++				++	
Specialist architectural projects (Module 2 - public utility design (E.) - elective	IIA.1.3.b			++			++	+++	++	++							++	++	++							++	+++	++	++	++	++				++			++	++				++	++	++	++	++	
Specialist architectural projects (Module 3 - urban and residential design) (E.)- electi	IIA.1.3.c	+++								++												++	++	++	++	++		++					++	++	++		++							++	++		++	
Advanced urban planning design	IIA.1.4.	++	++			++		++							++	++		++	++		++				++			++	++						++		++										++	
Sustainable design	IIA.1.5.		++				++									++						++						++		++								++										
Advanced Universal Design	IIA.1.6.			+					+++		+++						++	+++									++																+++		+++		++	
Wooden architecture design	IIA.1.7.	+++				++								+++					++			++	+++			+++				++				+++								+++					+++	
Subjects from group A.2. - Preservation design, spatial planning and specialized design resulting from local conditions																																																
Spatial and regional planning	IIA.2.1.							+++							+++				+++		+++				+++									++	+++			+++	++						+++		+++	
Regional architecture	IIA.2.2.							+++														++				++	++	++							++		++								++	++	++	
Preservation design	IIA.2.3.			++												+	++					++					+++							++								+			++		++	
Modernization of built-up areas	IIA.2.4.							++									++																												++			
Group B subjects. - Design Context																																																
Subjects from group B.1. - Theory and history of architecture and urban planning, heritage protection, cultural studies, archaeology and preservation theory, law in the investment process, professional ethics, ergonomics																																																
History and Theory of Modern Architecture and Urbanism (E.) - elective	IIB.1.1. a	++	++				++	++									++	++									++	++	++								++								+	++		
Historical conditioning of architecture and urban. Contemporary architecture (E.) -	IIB.1.1. b	++	++				++	++									++	++									++	++	++								++								+	++		
Preservation of monuments and historic towns	IIB.1.2.	+++	++	++		++																	++	++										++	++											++		
Cultural Studies - HS	IIB.1.3.	++		++		++		++																										++											++	++		
Archaeology and Preservation Theory - HS	IIB.1.4.			++												++	++					++					+++							++								+			++		++	
Management and Law in the Investment Process - HS	IIB.1.5.				++							++																				++								++	++							
Ethics of the Architectural Profession - HS	IIB.1.6.							++																												++		++										
Ergonomics in architectural design	IIB.1.7.							+++		+																										+							++	++	++		++	
Subjects of group B.2. - Technology and engineering: advanced technical aspects related to the design process																																																
Advanced aspects of roads and streets	IIB.2.1.							+++																						+++												+++						++
Energy-efficient construction	IIB.2.2.				+			+++	++	+++												+++				+++	+++	++		+++								+++				+++	+++		++			
Advanced aspects of general construction (E.)	IIB.2.3.							+++		++	++											++				++				+++													++					++
Selected Issues in Building Construction (E.), (E.)	IIB.2.4.				+++		++	+++		+++						++						++								+++										+++	+++	+++		+++		+	+	+++
Subjects from group B.3. - Design workshop - integration of design processes and methodology of scientific work																																																
Freehand architectural drawing	IIB.3.1.						+++							+++																																++		
Advanced BIM techniques	IIB.3.2.				+					++		++							+++								++			++												+++					++	
Architectural and restoration documentation	IIB.3.3.	+++								++			++						+			++		+++					+					+++												++		
Methodology of research work	IIB.3.4.			++			++	+++		++	++		++					++	++					++			+++	++	++								+					++				+	+	++
languages and - as an option - philosophy and aesthetics, history of art, sociology and environmental psychology																																																
Foreign language (E.) - elective	IIC.1.1.								+	++										++								++																				
Sociology and environmental psychology elective - HS	IIC.1.2. a					+						+				+																												+	++			
History of Art - elective - HS	IIC.1.2. b			++		++	++										++										++	++																		++		
Philosophy and Aesthetics - elective - HS	IIC.1.2. c	++		++		++	++	+++		++							++	++										+																		++		
Subjects from group D. - Diploma: preparation of the diploma work and preparation for the diploma exam (theoretical and practical part)																																																
Diploma seminar - elective	IID.1.1.							++														++				++	+++		++	++										++			++		+		++	
Specialist consultations	IID.1.2.	+++				++		+++		++		++						++				++				++																						
Diploma seminar - elective	IID.1.3.	+++				++		+++		++				++				++								++	++	++	++													++	++		++		++	
Preparation for the diploma exam	IID.1.4.	++				++	++	++	++	++			++														+++	++	++	++								++							++	++	++	
Thesis - elective	IID.1.5.	+++			++	++		+++		++	++	++	++	++		++	++	++	++							++	+++		++	++												++	++		++		++	++
Subjects required by the Resolution of the Senate of LUT (without ECTS credits)																																																
Scientific information	IIU.1						++	+++		++	++								++								+++	++	++																			
OHS	IIU.2						+	+																								+								+								
Internships																																																
Construction internship (2 weeks) - elective	IIP. 1				++			+++	++			++										++					+++														++	++	++				++	

Subjects from group A - Design

Subjects of group A.1. - Architectural and urban design

Advanced Architectural Design (E.) IIA.1.1.
Architectural Design in Historic Buildings (E.) IIA.1.2.
Specialized architectural projects (Module 1 - projects in historical buildings) (E.) - e IIA.1.3.a
Specialist architectural projects (Module 2 - public utility design (E.) - elective IIA.1.3.b
Specialist architectural projects (Module 3 - urban and residential design) (E.)- electi IIA.1.3.c
Advanced urban planning design IIA.1.4.
Sustainable design IIA.1.5.
Advanced Universal Design IIA.1.6.
Wooden architecture design IIA.1.7.

Subjects from group A.2. - Preservation design, spatial planning and specialized design resulting from local conditions

Spatial and regional planning IIA.2.1.
Regional architecture IIA.2.2.
Preservation design IIA.2.3.
Modernization of built-up areas IIA.2.4.

Group B subjects. - Design Context

Subjects from group B.1. - Theory and history of architecture and urban planning, heritage protection, cultural studies, archaeology and preservation theory, law in the investment process, professional ethics, ergonomics

History and Theory of Modern Architecture and Urbanism (E.) - elective IIB.1.1. a
Historical conditioning of architecture and urban planning. Contemporary IIB.1.1. b
Preservation of monuments and historic towns IIB.1.2.
Cultural Studies - HS IIB.1.3.
Archaeology and Preservation Theory - HS IIB.1.4.
Management and Law in the Investment Process - HS IIB.1.5.
Ethics of the Architectural Profession - HS IIB.1.6.
Ergonomics in architectural design IIB.1.7.

Subjects of group B.2. - Technology and engineering: advanced technical aspects related to the design process

Advanced aspects of roads and streets IIB.2.1.
Energy-efficient construction IIB.2.2.
Advanced aspects of general construction (E.) IIB.2.3.
Selected Issues in Building Construction (E.), (E.) IIB.2.4.

Subjects from group B.3. - Design workshop - integration of design processes and methodology of researchwork

Freehand architectural drawing IIB.3.1.
Advanced BIM techniques IIB.3.2.
Architectural and restoration documentation IIB.3.3.
Methodology of research work IIB.3.4.

languages and - as an option - philosophy and aesthetics, history of art, sociology and environmental psychology

Foreign language (E.) - elective IIC.1.1.
Sociology and environmental psychology elective - HS IIC.1.2. a
History of Art - elective - HS IIC.1.2. b
Philosophy and Aesthetics - elective - HS IIC.1.2. c

Subjects from group D. - Diploma: preparation of the diploma work and preparation for the diploma exam (theoretical and practical part)

Diploma seminar - to be chosen IID.1.1.
Specialist consultations IID.1.2.
Diploma seminar - to be chosen IID.1.3.
Preparation for the diploma exam IID.1.4.
Thesis - to be chosen IID.1.5.

Subjects required by the Resolution of the Senate of LUT (without ECTS credits)

Scientific information IIU.1
OHS IIU.2

Internships

Construction internship (2 weeks) - elective IIP. 1

Faculty of Civil Engineering and Architecture
Lublin University of Technology

FULL-TIME STUDY PLAN - SECOND-CYCLE PROGRAMME- FIELD OF STUDY ARCHITECTURE (in accordance with the REGULATION OF THE MINISTER OF SCIENCE AND HIGHER EDUCATION of July 18, 2019 on the standard of education preparing for the profession of architect)

SYMBOL	COURSE	NUMBER OF HOURS					DIVISION OF CLASSES INTO SEMESTERS														
							I					II					III				
		Total	W	C	L	P	W	C	L	P	pt	W	C	L	P	pt	W	C	L	P	pt
Subjects of group A - Engineering design																					
	Subjects of group A.1.- Architecture and urban planning																				
IIA.1.1.	Advanced architectural design (E.)	60	30	0	0	30	2			2	4										
IIA.1.2.	Architectural design in historic buildings (E.)	60	30	0	0	30	2			2	4										
IIA.1.3.a	Specialized arch. design (module 1 - design in historic buildings) (E.) - elective	120	60	0	0	60						2			2	4	2			2	4
IIA.1.3.b	Specialized arch. design (module 2 - public utility design (E.) - elective																				
IIA.1.3.c	Specialized arch. design (module 3 - urban and residential area design (E.) - elective																				
IIA.1.4.	Advanced urban design	45	15	0	0	30						1			2	3					
IIA.1.5.	Ecologically sustainable design	45	15	0	0	30						1			2	3					
IIA.1.6.	Advanced universal design	45	15	0	0	30											1			2	3
IIA.1.7.	Design of wooden architecture	30	15	0	0	15	1			1	2										
TOTAL		**405**	**180**	**0**	**0**	**225**	**5**	**0**	**0**	**5**	**10**	**4**	**0**	**0**	**6**	**10**	**3**	**0**	**0**	**4**	**7**
Subjects of group A.2. - Conservation design, spatial planning and specialized planning resulting from local conditions																					
IIA.2.1.	Spatial and regional planning	30	15	0	0	15	1			1	2										
IIA.2.2.	Regional architecture	30	15	0	0	15						1			1	2					
IIA.2.3.	Conservation design	30	15	0	0	15						1			1	2					
IIA.2.4.	Modernization of urban areas	30	15	0	0	15						1			1	2					
TOTAL		**120**	**60**	**0**	**0**	**60**	**1**	**0**	**0**	**1**	**2**	**3**	**0**	**0**	**3**	**6**	**0**	**0**	**0**	**0**	**0**
Subjects of group B - Design context																					
Subjects of group B.1. - Theory and history of architecture and urban planning, heritage protection, cultural studies, archeology and the theory of building conservation, law in the investment process, professional ethics, ergonomics																					
IIB.1.1. a	History and theory of contemporary architecture and urban planning (E.) - elective - HS	45	30	15	0	0	1				1	1	1			2					
IIB.1.1. b	Historical conditioning of architecture and urban planning. Contemporary (E.) - elective - HS																				
IIB.1.2.	Protection of monuments and historic towns	30	15	0	0	15	1			1	2										
IIB.1.3.	Cultural studies - HS	15	15	0	0	0											1				1
IIB.1.4.	Archeology and theory of conservation- HS	15	15	0	0	0	1				1										
IIB.1.5.	Management and law in the investment process - HS	15	0	15	0	0							1			1					
IIB.1.6.	Ethics of the profession of an architect - HS	15	15	0	0	0											1				1
IIB.1.7.	Ergonomics in architectural design	15	15	0	0	0	1				1										
TOTAL		**150**	**105**	**30**	**0**	**15**	**4**	**0**	**0**	**1**	**5**	**1**	**2**	**0**	**0**	**3**	**2**	**0**	**0**	**0**	**2**
Subjects of group B.2.- Engineering, technique and technology, advanced technical aspects related to design process																					
IIB.2.1.	Advanced aspects of roads and streets	15	15	0	0	0	1				1										
IIB.2.2.	Energy-efficient construction	45	15	0	0	30	1			2	3										
IIB.2.3.	Advanced aspects of general construction (E.)	45	15	0	0	30	1			2	3										
IIB.2.4.	Selected aspects of building structures (E.), (E.)	75	45	30	0	0	1	1			2	2	1			4					
		15	0	15	0	0							1								
TOTAL		**195**	**90**	**45**	**0**	**60**	**4**	**1**	**0**	**4**	**9**	**2**	**2**	**0**	**0**	**4**	**0**	**0**	**0**	**0**	**0**
Subjects of group B.3. - Design workshop – integration of design processes and methodology of scientific work																					
IIB.3.1.	Freehand architectural drawing	30	0	0	30	0			2		1										
IIB.3.2.	Advanced BIM techniques	30	0	0	30	0			2		1										
IIB.3.3.	Architectural and conservation documentation	60	30	0	0	30						2			2	3					
IIB.3.4.	Methodology of scientific work	15	15	0	0	0						1				1					
TOTAL		**135**	**45**	**0**	**60**	**30**	**0**	**0**	**4**	**0**	**2**	**3**	**0**	**0**	**2**	**4**	**0**	**0**	**0**	**0**	**0**
Subjects of group C - Complementary classes in particular : foreign languages and – elective – philosophy and aesthetics, history of art, sociology and environmental psychology																					
IIC.1.1.	Foreign language (E.) - elective	60	0	60	0	0		2			2		2			2					
IIC.1.2. a	Sociology and environmental psychology - elective - HS	15	15	0	0	0											1				1
IIC.1.2. b	History of art - elective- HS																				
IIC.1.2. c	Philosophy and aesthetics- elective - HS																				
TOTAL		**75**	**15**	**60**	**0**	**0**	**0**	**2**	**0**	**0**	**2**	**0**	**2**	**0**	**0**	**2**	**1**	**0**	**0**	**0**	**1**
Subjects of group D- Diploma: preparation of the thesis and preparation for the diploma examination (theoretical part and practical part)																					
IID.1.1.	Diploma proseminar - elective	20	0	0	0	20									2	1					
IID.1.2.	Specialist consultations	15	0	0	0	15														1	1
IID.1.3.	Diploma seminar- elective	45	0	0	0	45														3	2
IID.1.4.	Preparation for the diploma examination	20	0	20	0	0												1			1
IID.1.5.	Diploma Thesis - elective	0	0	0	0	0															20
TOTAL		**100**	**0**	**20**	**0**	**80**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**2**	**1**	**0**	**1**	**0**	**4**	**24**
TOTAL hours and ECTS		**1180**	**495**	**155**	**60**	**470**	**14**	**3**	**4**	**11**	**30**	**13**	**6**	**0**	**13**	**30**	**6**	**1**	**0**	**8**	**34**
TOTAL hours a week							**32**					**32**					**15**				

Attachment no 2

Parametric characteristics of the subject of Architecture

Second-cycle full-time studies

Specification	**Parameter size resulting from the programme of studies**	
Basic parameters		
Number of semesters	3	
Total number of hours in the study plan	1246	
Total number of ECTS credits, necessary for obtaining qualifications corresponding to the level of education	97	
Number of hours of classes in the field of study by teachers employed at the University as their primary place of work	1156	
Total number of ECTS credits assigned to a foreign language in a study plan	4	
Total number of ECTS credits assigned to student internships in the study plan	2	
Detailed parameters	**Number of ECTS credits**	**% share of the total number of ECTS credits for the entire study programme**
ECTS credit assigned to the scientific discipline:		
- the leading one	75	77,3%
- the remaining ones	22	22,9%
The total number of ECTS credits, a student must obtain as part of classes conducted with the direct participation of academic teachers or other people conducting classes	49	50,5%
The total number of ECTS credits assigned in the study plan to classes in the field of humanities or social sciences	5	5,2%
The total number of ECTS credits assigned in the study plan to elective classes	42	43,3%
The total number of ECTS credit assigned to the classes related to conducted scientific activity in the discipline or disciplines to which the field of study is assigned	69	71,1%

The total number of ECTS credits assigned to the classes preparing students to conduct or participate in research	67	69,1%

Annex 1: Learning outcomes for the field of study Architecture - second cycle

Learning outcomes for the second cycle studies: field of study Architecture, educational profile General-academic

Symbol of the learning outcome	Description of the learning outcomes	First cycle universal characteristic symbol for level 6*)	Symbol of the characteristics of the second cycle learning outcomes for qualification level 6**)	Symbol of the characteristics of the second cycle learning outcomes for qualifications leading to engineering competence ***)
A person with a first cycle qualification:				
In terms of knowledge				
A2A_W01	has extended and deepened knowledge of mathematics, physics and chemistry relevant to the field of study of architecture and urban planning	P7U_W	P7S_WG	
A2A_W02	has extended knowledge of architectural, urban and conservation design and spatial planning	P7U_W	P7S_WG	P7S_WG
A2A_W03	has extended knowledge of the history and theory of architecture, urban planning theory, fine arts, technical sciences and humanities	P7U_W	P7S_WG	

A2A_W04	has expanded knowledge in the field of shaping the human environment, taking into account the relationship between people, architectural objects and the surrounding space	P7U_W	P7S_WG	
A2A_W05	knows the procedures for developing designs for architectural structures with consideration of social factors	P7U_W	P7S_WG P7S_Wk	P7S_WG
A2A_W06	knows the principles of solving functional, usability and construction problems to the extent ensuring safety and comfort of use of facilities, including the disabled	P7U_W	P7S_WG	P7S_WG
A2A_W07	knows the principles of solving structural, engineering and technological problems in various architectural objects	P7U_W	P7S_WG	P7S_WG
A2A_W08	is familiar with technical and construction regulations and procedures, as well as with issues concerning design economics	P7U_W	P7S_WG	
A2A_W09	knows the principles concerning the execution and use of architectural objects and the organisation of the investment process	P7U_W	P7S_WG	P7S_WG
A2A_W10	knows the principles of plans integration with planning projects in the country and in the countries of the European Union	P7U_W	P7S_WK	
A2A_W11	knows the principles of green building design and urban design in the context of sustainable development	P7U_W	P7S_WK	P7S_WG
A2A_W12	knows and understands the interdisciplinary considerations of urban design	P7U_W	P7S_WK	P7S_WG
A2A_W13	knows and understands the role of the architectural profession in the society and applies the rules of professional ethics	P7U_W	P7S_WK	
A2A_W14	knows and understands the principles of shaping the space of cities and regions	P7U_W	P7S_WG	P7S_WG
A2A_W15	knows the principles and methods of architectural protection of historic buildings, historic urban complexes and cultural landscape	P7U_W	P7S_WG	
A2A_W16	knows and understands the basic problems of spatial and regional planning in the context of implementing state spatial policy	P7U_W	P7S_WK	
A2A_W17	has basic knowledge of management, including quality management and business	P7U_W	P7S_WK	P7S_WK
A2A_W18	knows the principles of designing small functional forms	P7U_W	P7S_WG	P7S_WG

A2A_W19	knows materials and technologies used in modern construction	P7U_W	P7S_WG P7S_WK	P7S_WG
A2A_W20	knows and understands the principles of professional presentation of architectural and urban planning concepts and the principles of collecting information and its interpretation within the framework of preparing a design concept	P7U_W	P7S_WG P7S_WK	P7S_WG
SKILLS				
A2A_U01	is able to acquire information from literature, databases and other properly selected sources, also in a foreign language recognized as the language of international communication within the scope of architecture and urban planning	P7U_U	P7S_UW	
A2A_U02	is able to integrate acquired information, interpret and critically evaluate it, draw conclusions, as well as formulate and fully justify opinions for complex architectural design	P7U_U	P7S_UW	
A2A_U03	is able to develop advanced architectural designs of buildings and their surroundings in accordance with technical, utility, aesthetic and cultural requirements	P7U_U	P7S_UW	P7S_UW
A2A_U04	has the skills to develop a planning project, including local plans	P7U_U	P7S_UW	P7S_UW
A2A_U05	is able to conduct architectural and historical research and formulate conservation conclusions	P7U_U	P7S_UW	P7S_UW
A2A_U06	is able to perform design and adaptation studies of architectural monuments and historical urban complexes	P7U_U	P7S_UW	P7S_UW
A2A_U07	is able to assess the usefulness and possibility of using modern materials, techniques and technologies	P7U_U	P7S_UW	P7S_UW
A2A_U08	is able to draw up land-use plans	P7U_U	P7S_UW	P7S_UW
A2A_U09	has language skills in the field of architecture and urban planning which correspond to level B2+ of the Common European Framework of Reference for Languages	P7U_U	P7S_UK	
A2A_U10	is able to use information and communication techniques appropriate for architectural, urban planning, conservation and planning projects	P7U_U	P7S_UW	P7S_UW
A2A_U11	is able to integrate knowledge from different fields of science (theory of architecture and urban planning, fine arts, technical sciences and humanities) in solving design tasks	P7U_U	P7S_UW	P7S_UW

A2A_U12	is able to critically assess an architectural or urban development work, taking into account the relationship between people, architectural objects and surrounding space	P7U_U	P7S_UW	P7S_UW
A2A_U13	is able to shape human environment taking into account the relations between people and architectural objects and surrounding space in the context of sustainable development	P7U_U	P7S_UW	P7S_UW
A2A_U14	is able to make a land development project for areas of different sizes, taking into account non-technical conditions and foreseeing the consequences of the planning decisions taken	P7U_U	P7S_UW	P7S_UW
A2A_U15	has the ability to use a variety of workshop techniques to present architectural and planning studies	P7U_U	P7S_UK	
A2A_U16	has the skills necessary to undertake research and creative activity in architectural and urban design	P7U_U	P7S_UW	P7S_UW
A2A_U17	is able to coordinate the work of a multidisciplinary project team, is able to manage the work of a multidisciplinary project team, cooperate with its members and discuss professional issues	P7U_U	P7S_UK P7S_UO	
A2A_U18	can independently plan and implement his/her own lifelong learning and guide others to do so	P7U_U	P7S_UU	
SOCIAL COMPETENCE				
A2A_K01	is willing to assess the reliability of the results of his/her own and his/her subordinates' work and to seek expert advice in case of difficulty in solving the problem	P7U_K	P7S_KK P7S_KR	
A2A_K02	is willing to evaluate the safety of his/her own and the team's work	P7U_K	P7S_KR	
A2A_K03	is ready to critically assess acquired knowledge and the received contents, recognise its significance in solving problems, and on this basis - to independently complement and extend it, especially in the scope of modern trends of architectural and urban design	P7U_K	P7S_KK	
A2A_K04	is ready to improve his/her professional and personal competence as well as his/her care for the achievements and ethos of the profession	P7U_K	P7S_KR	
A2A_K05	is ready to communicate knowledge of architecture and urban planning to the public	P7U_K	P7S_KO	

A2A_K06	is ready to act in an entrepreneurial way and observe ethical, economic and financial principles in professional activity	P7U_K	P7S_KO P7S_KR	
A2A_K07	is ready to actively participate in the life of the city, region and country. Takes care to uphold the history and traditions of local communities	P7U_K	P7S_KO	
A2A_K08	is ready to design in accordance with the principles of sustainable development in architecture and urban planning	P7U_K	P7S_KK	
A2A_K09	is ready to formulate and present opinions on architecture, urban planning, conservation of monuments and spatial planning	P7U_K	P7S_KR	

*) Symbol of the first cycle universal characteristic for level 6, included in the Annex to the Act of 22 December 2015 on the Integrated Qualification System (i.e. Journal of Laws of 2017, item 986)

**) Symbol of the second cycle characteristics of the learning outcomes for qualifications at level 6, contained in the annex to the regulation of the Minister of Science and Higher Education of 14 November 2018 on the second-cycle characteristics of the learning outcomes for qualifications at levels 6-8 of the Polish Qualification Framework (Journal of Laws of 2018, item 2218)

***) Applicable only to fields of study that enable the acquisition of engineering competences - symbol of the second cycle characteristics of the learning outcomes for qualifications enabling engineering competences, included in the annex to the regulation of the Minister of Science and Higher Education of 14 November 2018 on the characteristics of the second cycle learning outcomes for qualifications at levels 6-8 of the Polish Qualification Framework (Dz. U. of 2018, item 2218)