FIRST-DEGREE (UNDERGRADUATE) COURSES

I. TEACHING ORGANISATION

1. GENERAL REQUIREMENTS

1.1. Full-time courses last not less than 8 semesters. Part-time courses can last longer than full-time courses.
1.2. The number of hours in the courses cannot be lower than 2800.
1.3. The number of ECTS credits necessary to graduate cannot be lower than 240.
1.4. The major of Architecture is assigned to the scientific discipline of Architecture and Urban Planning as the leading discipline.
1.5. The syllabus takes into account practical and theoretical aspects of the profession of architect in a balanced way.

2. CLASSES AND GROUPS OF CLASSES

The teaching process is carried out in the form of classes or groups of classes preparing to the practice of the profession of architect within the scheme of groups of classes A-E.

In the group of classes A, classes are conducted in groups not larger than 15 students.

For courses:

1) with the general academic profile – the syllabus comprises classes or groups of classes associated with the scientific activities carried out at the university in the scientific discipline that the major is assigned to, with ECTS credits assigned to them in a higher number than 50% of all ECTS credits necessary to graduate, and takes into account students' participation in classes preparing them to conducting or participating in research activities;
2) with the practical profile – the syllabus comprises classes or groups of classes teaching practical skills, with ECTS credits assigned to them in a higher number than 50% of ECTS credits necessary to graduate.

3. MINIMUM NUMBER OF CLASSES AND ECTS CREDITS

Groups of classes within the scheme of which the detailed learning outcomes are achieved	**Number of hours**	**Number of ECTS credits**
A. Design	1325, including:	80
A.1. Architectural and urban design	1245	
A.2. Rural design, interior design, and specialised design resulting from local conditions	80	
B. Context of designing	900, including:	55
B.1. Theory and history of architecture and urban planning, landscape architecture, heritage protection, cultural studies, environmental protection and ecology, investment process economics, law in investment process, ergonomics	300	

B.2. Engineering, technique, and technology: construction and materials science, civil engineering structure, building statics and mechanics, building physics, building installations, and urban infrastructure.	300	
B.3. Design workshop: drawing, painting, workshop techniques, modelling, mathematics, geometry	300	
C. Supplementary classes, in particular: foreign languages, and – optionally – philosophy and ethics, history of art, sociology, and environmental psychology.	120	10
D. Work placements		40
E. Diploma: preparation of the diploma project and preparation to the diploma examination (theoretical part and practical part)	50	10

Not less than 405 hours of classes (45 ECTS credits) are left at the university's disposal. They can constitute additional classes improving students' knowledge, skills, or social competences, whereas the course syllabus allows students to choose classes assigned with ECTS credits in the amount equalling not less than 5% of the total ECTS credits necessary to graduate.

Physical education classes are compulsory at full-time courses and their number shall not be lower than 60 hours. These classes do not have any ECTS credits assigned to them.

The course syllabus allows students to acquire not less than 5 ECTS credits for classes devoted to humanities or social science.

The number of ECTS credits that can be acquired exclusively within the scope of the teaching process making use of distant learning methods cannot be higher than 10% of the total number of ECTS credits necessary to graduate.

4. WORK PLACEMENT

The objective of work placements is to improve practical skills acquired during classes.

Scope of work placement	**Duration**	**ECTS credits**
Workshop training, including plein air drawing, architectural inventory training, and urban planning training	5 weeks	10
Work placement – architectural internship (not sooner than after semester 4)	1 semester	30

The university defines the programme of work placements, their form, and manner of verifying the achieved learning outcomes.

5. INFRASTRUCTURE NECESSARY TO CONDUCT THE TEACHING PROCESS

The teaching process is conducted making use of infrastructure enabling to achieve the required learning outcomes, which comprises teaching rooms and labs of an adequate capacity and equipment, appropriate for the form of classes and teaching methods applied. Teaching rooms and labs are furnished with traditional equipment appropriate for designing, drawing, engraving, painting, and

modelling labs, as well as with IT hardware, including computers, projectors, and scanners, allowing to achieve the required learning outcomes. Designing labs enable to conduct classes with the application of the "master-student" method, in the form of individual or team correction, as well as to organise in-class activities , reviews, and collective assessment of projects.

Work placement (architectural internship) takes place outside the university and with the participation of chambers of architects (National Chamber of Architects or regional chambers of architects), basing on the infrastructure of architectural studios or labs. Student's supervisor which conducts the work placement holds a full building license in the specialty of designing with no restrictions.

The university provides students with access to library resources encompassing textual and graphical representations of content relating to the theory of architecture and architectural practice in a traditional form (monographs, handbooks, scripts, magazines) and in the digital form (databases, e-books).

II. PERSONS CONDUCTING THE TEACHING PROCESS

1. Requirements pertaining to qualifications of persons conducting the teaching process.

The teaching process aimed to achieve the learning outcomes in the group of classes A is conducted by persons with a considerable contribution to the development of the scientific discipline of Architecture and Urban Planning, or who hold a building license in the specialty of architecture with no restrictions, or professional experience obtained in the designing practice. The teaching process aimed to achieve the learning outcomes in the group of classes A can be conducted with the participation of other individuals with professional experience adequate to the classes conducted.

The teaching process aimed to achieve the learning outcomes in the group of classes B is conducted by persons with academic achievements in the scientific discipline of Architecture and Urban Planning or in a scientific discipline associated with the context of designing, or with professional experience adequate to the topics of classes taught.

The teaching process aimed to achieve the learning outcomes in the group of classes C is conducted by persons with academic achievements or professional experience adequate to the topics of classes taught.

The teaching process aimed to achieve the learning outcomes in the group of classes D is conducted by persons holding the building license in the specialty of architecture with no restrictions and professional experience acquired in the designing and building practice – for the architectural work training – and by persons with academic or artistic achievements and professional experience adequate to the topics covered – for workshop training.

The teaching process aimed to achieve the learning outcomes in the group of classes E is conducted by persons with academic achievements constituting a considerable contribution in the development of the scientific discipline of Architecture and Urban Planning or the building license in the specialty of architecture with no restrictions, as well as with considerable designing achievements.

2. Number of students per one academic teacher

The number of students per one academic teacher working full-time shall not be higher than 15.

The number of students preparing for the diploma examination per one academic teacher working full-time over an academic year shall not by higher than 10 in total on all level of studies in the major of Architecture conducted in a given university.

III. LEARNING OUTCOMES

1. GENERAL LEARNING OUTCOMES

1.1. In terms of knowledge, the graduate knows and understands:

1) structural, constructional, and engineering problems associated with designing buildings;
2) problems associated with architecture and urban planning in terms of solving simple design problems;
3) problems pertaining to architecture and urban planning useful in designing structures and urban complexes in the context of social, cultural, natural, historical, economic, legal and other non-technical conditions of the engineering activities, integrating the knowledge acquired during the courses;
4) problems of physics, technology, and functions of buildings in the scope enabling to guarantee comfort of their utilisation and protection against weather conditions;
5) relations between man and architecture and between architecture and the surrounding environment, as well as the needs to adapt architecture to human needs and scale;
6) legal regulations and procedures necessary to implement building projects;
7) methods and measures associated with the implementation of ecologically responsible sustainable design, as well as protection and conservation of the surrounding environment;
8) principles of cost estimation, project management, methods of cost control, and principles of implementation of a building project;
9) history and theory of architecture, as well as of art, technology, and humanities in the scope necessary to prepare building designs in a correct way;
10) principles, solutions, structures and building materials used while performing simple engineering tasks in the scope of architectural and urban design;
11) topics associated with architecture and urban planning in the context of the multifaceted character of architectural and urban design;
12) principles of collecting information and interpreting thereof within the scheme of the prepared design concept;
13) main principles of professional presentation of architectural and urban planning concepts;
14) character of the profession of architect and its role in the society.

1.2. In terms of skills, the graduate is able to:

1) use the experiences acquired during the studies in order to perform a critical analysis of conditions and formulate conclusions for designing in an interdisciplinary context;
2) design a structure or a simple urban complex satisfying the aesthetic and technical requirements;
3) prepare a graphic, written, and oral presentation of their own designing concepts in the scope of architecture and urban planning, satisfying the requirements of a professional recording method appropriate for architectural and urban planning design;
4) apply analytical methods in formulating and solving design tasks.

1.3. In terms of social competence, the graduate is ready to:

1) comply with the principles of professional ethics and take responsibility for actions they undertake;
2) respect the diversity of views and cultures, as well as demonstrate sensitivity to the social aspects of the profession;
3) take responsibility for architectural and urban planning values in environmental protection and cultural heritage;
4) learn all their life, including participation in second-degree (graduate) courses and postgraduate courses, or participation in other forms of learning.

2. DETAILED LEARNING OUTCOMES

A. DESIGNING

In terms of knowledge, the graduate knows and understands:

A.W1. architectural design in the scope of performing simple tasks, in particular simple buildings, taking into account the basic needs of their users, one-family and multi-family residential buildings, service outlets in residential complexes, public utility buildings in an open landscape or in an urban environment;

A.W2. urban planning design in the scope of performing simple tasks, in particular small building complexes, local spatial development plans, taking into account local conditions and relations, as well as forecasting processes of transformations of the settlement structure of cities, towns, and villages;

A.W3. provisions of local spatial development plans in the scope necessary for architectural design;

A.W4. principles of universal design, including the concept of designing spaces and buildings accessible to all users, in particular to people with disabilities, in architecture, urban planning, and spatial planning, as well as principles of ergonomics necessary to provide full functionality of the designed space and structures for all users, in particular for people with disabilities.

In terms of skills, the graduate is able to:

A.U1. design a building, creating and transforming space so as to equip it with new values – in line with the required programme, taking into account the requirements and needs of all users;

A.U2. design a simple urban complex;

A.U3. draw up planning studies pertaining to spatial development and interpret them in the scope necessary for designing in the urban and architectural scale;

A.U4. perform a critical analysis of conditions, including evaluation of the condition of land development and architecture;

A.U5. think and act in a creative way, making use of workshop skills necessary to maintain and broaden the abilities to implement artistic concepts in architectural and urban design;

A.U6. integrate information obtained from different sources, interpret it, and perform a critical analysis thereof;

A.U7. communicate making use of different techniques and tools in the professional environment appropriate for architectural and urban design;

A.U8. draw up architectural and construction documentation in relevant scales in reference to the conceptual architectural design;

A.U9. implement principles and guidelines of universal design in architecture, urban planning, and spatial planning.

In terms of social competences, the graduate is ready to:

A.S1. think independently in order to solve simple design problems;

A.S2. take responsibility for shaping the natural environment and cultural landscape, including preservation of the heritage of the region, the country, and Europe.

B. CONTEXT OF DESIGNING

In terms of knowledge, the graduate knows and understands:

B.W1. the theory of architecture and urban planning useful in formulating and solving simple tasks in the field of architectural and urban design and spatial planning;

B.W2. THE history of architecture and urban planning, contemporary architecture, heritage protection, in the scope necessary in the architectural, urban planning, and spatial planning work;

B.W3. significance of the natural environment in architectural and urban design and in spatial planning;

B.W4. mathematics, geometry of space, statics, strengths of materials, shaping, constructing, and dimensioning of buildings, in the scope necessary for formulating and solving tasks from the area of architectural and urban design;

B.W5. problems of construction, technology, and building installations, structures, and physics of buildings, comprising key issues in architectural, urban, and planning design, as well as issues associated with fire protection of buildings;

B.W6. economics of investments and methods of organisation and course of the designing and investment process; fundamental principles of designing and implementing quality management systems in the construction process;

B.W7. methods of communicating concepts of architectural, urban, and planning designs and of the development thereof;

B.W8. the role and application of graphics, drawing, and painting, as well as IT technologies in the process of architectural and urban design;

B.W9. principles of occupational health and safety.

In terms of skills, the graduate is able to:

B.U1. integrate the knowledge from the scope of different areas of science, e.g. history, history of architecture, history of art, and protection of cultural assets;

B.U2. recognise the importance of non-technical aspects and effects of designing activities of an architect, including its impact on the cultural and natural environment;

B.U3. make use of properly selected computer analyses, IT analyses, and IT technologies supporting architectural and urban design;

B.U4. develop solutions of individual systems and elements of buildings in terms of technology, construction, and materials used;

B.U5. perform a preliminary economic analysis of planned engineering measures;

B.U6. properly apply standards and legal regulations referring to architectural and urban design.

In terms of social competences, the graduate is ready to:

B.S1. formulate opinions on achievements of architecture and urban planning, conditions thereof, and other aspects of architect's activity, as well as communicate information and opinions.;

B.S2. perform a thorough self-assessment, formulate constructive criticisms on architectural and urban planning measures.

C. SUPPLEMENTARY CLASSES

In terms of knowledge, the graduate knows and understands:

C.W1. styles in art and creative tendencies associated with them, as well as the process of implementation of architecture-related works;

C.W2. conditions of architectural and urban design resulting from the psychophysical characteristics of man;

C.W3. vocabulary and grammatical structures of a foreign language which is a language of international communication, in terms of formulating and understanding written and oral statements devoted to architecture, as well as the need to have a good command of a foreign language.

In terms of the skills, the graduate is able to:

C.U1. obtain information from properly identified sources, also in a foreign language which is a language of international communication, in order to apply it in the designing process;

C.U2. use at least one language which is a language of international communication at the level of B2 according to the Common European Framework of Reference for Languages, including specialist terminology from the field of architecture and urban planning necessary in the designing activities.

D. WORK PLACEMENT

In terms of knowledge, the graduate knows and understands:

D.W1. basic methods, techniques, tools, and materials used when solving engineering problems from the scope of architectural design;

D.W2. problems associated with maintaining buildings and systems typical for architectural design;

D.W3. operating principles of an architectural design studio in the context of work organisation at individual stages of the designing process;

D.W4. norms and standards related to architectural and urban design, useful in performing auxiliary works;

D.W5. methods of organisation and course of the design and investment process, as well as the role of an architect in this process.

In terms of skills, the graduate is able to:

D.U1. assess the usefulness of typical methods and tools to be used for solving a simple engineering problem of a practical nature, characteristic for architectural design;

D.U2. design a simple structure or part thereof, typical for architectural design, in compliance with the specification given;

D.U3. prepare elements of the architectural and construction documentation in relevant scales, cooperating with members of the project team.

In terms of social competences, the graduate is ready to:

D.S1. adapt to new, changeable circumstances occurring during performing professional work of a creative nature;

D.S2. properly define priorities of measures aimed to implement a specific task;

D.S3. work at a construction site in the scope of architectural design;

D.S4. practice the profession of architect, which is a public trust profession, including properly identify and solve problems associated with designing activities.

E. DIPLOMA

In terms of knowledge, the graduate knows and understands:

E.W1. problems relating to architecture and urban planning in terms of solving design problems;

E.W2. problems relating to architecture and urban planning useful in designing buildings and urban complexes in the context of social, cultural, natural, historical, economic, legal, and other non-technical conditions of the engineering activity, integrating the knowledge acquired during the studies;

E.W3. rules, solutions, structures, construction materials applied when performing engineering tasks relating to architectural and urban design;

E.W4. problems associated with architecture and urban planning in the context of the multidisciplinary nature of architectural and urban design and the need to cooperate with other specialists;

E.W5. principles of professional presentation of architectural and urban planning concepts.

In terms of skills, the graduate is able to:

E.U1. perform an analysis of existing conditions, assessment of the condition of land development and architecture, and formulate conclusions for the designing process;

E.U2. design a building or an urban complex, creating and transforming the space so as to provide it with new values – in compliance with the adopted programme, taking into account non-technical aspects and integrating interdisciplinary knowledge and skills acquired during the studies;

E.U3. prepare an advanced graphic, written, and oral presentation of their own design concepts in terms of architecture and urban planning, satisfying the requirements of a professional record appropriate for architectural and urban design.

In terms of social competences, the graduate is ready to:

E.S1. effectively use their imagination, intuition, creative approach, and independent thinking, as well as creative work in order to solve design problems;

E.S2. accept criticism of the solutions presented by them and respond to the criticism in a clear and matter-of-fact way;

E.S3. apply IT technologies so as to integrate with other actors in processes and tasks, including project presentations, and communicate opinions in a broadly understood manner.

IV. METHOD OF VERIFICATION OF THE ACHIEVED LEARNING OUTCOMES

Verification of achieved learning outcomes requires diversified forms of assessment to be applied towards students, adequate to categories of knowledge, skills, or social competences to which the outcomes pertain.

Achievement of required learning outcomes in the category of knowledge is verified by means of written or oral examinations, review works, dissertations, and presentations, as well as through verification of design works in different categories and different difficulty levels.

Oral examinations are standardised and directed towards verification of knowledge at a higher level than the knowledge of facts only (level of understanding, ability to analyse, synthetise, solve problems).

Forms of written examinations comprise essays, reports, short structured questions, multiple choice questions, multiple response questions, Y/N questions, and response matching.

Achievement of required learning outcomes in the category of skills and in the category of social competences is verified by assessing design works in different categories and different difficulty levels.

Achievement of required learning outcomes in the category of skills in the group of classes A is verified by assessing the prepared design works, including course and review (interim) design works and in-class works, as well as assessing the level of student's creativity demonstrated during the designing process and direct individual and team corrections carried out with the application of the "master-student" method, as well as of the skill or presenting and defending the prepared design.

Achievement of required learning outcomes in the category of knowledge, skills, and social competences in the group of classes E is verified by assessing the knowledge acquired during seminars in terms of scientific work methodology and the ability to apply it in the design practice, as well as assessing the descriptive analytical and graphic design diploma work, in terms of the level of scientific, design-related, and aesthetic creativity of the student and the values of architectural solutions achieved by them, as well as the ability to present and defend them in public.