

ARCHITECTURAL DESIGN 2 – COMMERCIAL ARCHITECTURE – CULTURE, TRADE, SCIENCE

General information	
<i>Subject</i>	Architectural Design 2 – commercial architecture – culture, trade, science
<i>Faculty</i>	Faculty of Civil Engineering, Architecture and Environmental Engineering
<i>Course of study</i>	Architecture
<i>Profile</i>	General academic
<i>Type of study</i>	II level with the degree of M.Sc. Eng. Arch.
<i>Starting semester</i>	Summer semester

Information about the subject	
<i>Semester</i>	1
<i>Number of ECTS points</i>	6
<i>Subject type</i>	obligatory
<i>Language of instruction</i>	English
<i>Syllabus prepared by</i>	Justyna Kleszcz PhD Eng. Arch.

Type of class					
<i>Course type</i>	<i>Number of classes per semester (full time studies)</i>	<i>Number of classes per week (full time studies)</i>	<i>Number of classes per semester (part time studies)</i>	<i>Number of classes per week (part time studies)</i>	<i>Credit type</i>
lecture	15	1	-	-	Exam
project	60	4	-	-	Credit with a grade

Subject objective
<p>1. The objective is to familiarize the student with the principles of designing cultural objects such as galleries, theatres, museums, libraries, education, science, commercial, judicial and economic administration buildings, economy and public transport facilities, such as: bus and railway stations - including : modern standards, technological guidelines and ergonomic forms and aesthetics of buildings, functional and spatial solutions, interior and public areas, building surroundings with arrangement of recreational zones, pedestrian and bicycle communication paths, access to fast public transport, parking spaces and other accompanying facilities.</p> <p>2. The objective in terms of skills is to teach the student to prepare architectural designs based on technological assumptions adapted to a specific type of function of public facilities. Particular attention is paid to the principles connecting external large-scale facilities with major urban transport hubs, city centre, recreation zones and other major concentration centres, e.g. commercial, cultural and, education centres, etc. In the design of functional systems, attention is paid to sustainable development, forms of large-scale buildings, energy-saving and ecological solutions.</p> <p>3. The objective in terms of personal and social competence is to prepare the student to present and defend his own design solution in a group.</p>

Initial requirements
Informal: General knowledge of compulsory and optional first-level subjects. Architecture of designing service architecture.

Subject scope
Lecture: The lecture topics include the general methodology of designing the architecture of public

facilities, and in particular such issues as:

- – architectural space and satisfying higher human needs,
- – the concept of complex service architectural space,
- – the principles of composing public space in terms of selection of specific conditions and functional assumptions, materials used, creating a new value of the built-up space adapted to social expectations,
- – forms of creating space for a particular function,
- – ergonomic aspects of space,
- – discussion of the relationship between the function of cultural objects and the construction of the form of buildings, including the needs of disabled people and other non-standard users,
- – discussion of the rules for the use of different types of infrastructure accompanying large-scale public utility buildings.

Project: Analysis of the principles of designing public buildings based on spatial and technical-functional assumptions that affect design and material solutions. Based on adopted planning and technological assumptions, design concepts of a facility or complex of public facilities, and in detail the main architectural objects of one of the selected topics (district court, exhibition and museum centre, congress centre, school and kindergarten complex) will be prepared according to detailed program, functional and spatial guidelines.

Educational methods

Explanation methods: lectures - conventional, problematic, conversational, informative and speeches.

Research methods: exercises - analytical and design methods, case studies with accompanying discussion and analysis, interactive and creative education, teamwork and individual work carried out according to a detailed schedule of classes.

Education results and verification methods

<i>Description</i>	<i>Symbol</i>	<i>Verification method</i>	<i>Type of class</i>
The student has detailed knowledge of selected issues in the field of public facilities architecture, and also has knowledge of design methodology for objects with diverse functional, spatial and technological programmes: administration, science, cultural and commercial buildings with adaptation of land development to the specificity of the complex. The student has advanced knowledge how to creatively solve architectural aesthetical and landscape problems, functional and functional problems, also how to provide disabled people with comfort and safety of using administration, science, culture and commercial buildings.	K_W01 K_W03 K_W04	– exam - oral, descriptive, test, etc. – exam test with points	lecture
The student can use research and design methods and tools and assess their suitability for collection, analysis and synthesis of data in the field of public facilities. The student can carry out profound critical analyses and evaluation of architectural public facilities in terms of location, utility, construction, aesthetics and their socio-cultural function. Based on particular specifications, the student can design a public utility building with a complex functional and	K_U01 K_U02 K_U04 K_U07 K_U10	– project – preparation of the project – project review with a grade based on points	project

spatial layout, construction and technology, taking into account industry guidelines, and prepare a project for the development of its surroundings.			
The student is prepared for independent creative activity, including architectural concepts in the field of designing public facilities, which require cooperation and teamwork in groups of specialists; the student is prepared for independent business operations, including designing architectural studios, also in terms of creating large-scale service architecture; the student is prepared to undertake research work in the field of architecture of public facilities of various functional and spatial complexity; the student is aware of the social role that an architect plays in propagating and creating an urban environment, free from conflicts and threats occurring in the socio-economic and ecological and environmental aspect and implementing initiatives for specific tasks for sustainable development.	K_K03 K_K04 K_K06 K_K07 K_K09	<ul style="list-style-type: none"> – observation and evaluation of participation in class – observation and evaluation of the student's practical skills 	lecture project

Requirements to obtain a credit

Separate grades for the lectures and the projects. A credit for the project exercises is required before the student can take the exam. Attendance and active participation in the classes. The final grade for the complete project.

Lectures: The student's knowledge is verified in terms of the topics discussed during the lectures to confirm that the student is focused on contemporary architecture of public facilities in the field of cultural and commercial buildings, including the principles of sustainable development.

Project: The student prepares a conceptual architectural project and confirms that they are prepared to cooperate and act in a team, assuming different roles.

Principles for the grade: A grade for the achievement of the educational effect in the category: knowledge, skills and competences is based on a test with points:

50% - 60% correct answers	satisfactory
61% - 70%	satisfactory plus
71% - 80%	good
81% - 90%	good plus
91% - 100%	very good

Student's work	
<i>Student's work</i>	<i>Full time study (h)</i>
Interaction with the teacher (classes; consultations; exam, etc.)	100
Student's individual work (preparation for the classes, test exam; literature research preparation of: written paper, project, presentation, report, speech; etc.)	80
<i>Total</i>	180
<i>ECTS points</i>	<i>Full time study</i>
Work with a teacher	4
Work without a teacher	2

<i>Total</i>	6
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Basic literature

1. Neufert E., Neufert P., *Architects' Data*, Wiley-Blackwell.
2. Uffelen Ch., *Offices*, Verlagshaus Braun, 2007.
3. Verlagshaus, Braun, *1000 X European Hotels*, Braun, 2010
4. Plunkett D., Reid O., *Detail in Contemporary Hotel Design*, Laurence King, 2013
5. *The Design Hotels Book*, Gestalten, 2015
6. Ronstedt, Manfred, Frey, Tobias, *Hotel Buildings. Construction and Design Manual*, Dom Publishers, 2014
7. Cerver F., A., *The World of Contemporary Architecture*, Koenemann 2005.
8. Edwards B., *Libraries and learning resource centres*, 2002.
9. Jodidio P., *Architecture Now!*, Taschen (latest editions).
10. Jodidio P., *Public Architecture Now!*, Taschen 2010.
11. Rattenbury K., Bevan R., Long K., *Architects Today*, Laurens King Publishing 2004.
12. Thompson G., *Planning and Design of Library Buildings*, 1991.

Complementary literature

1. Bartkowicz B., *Wpływ funkcji wypoczynku na kształtowanie struktury przestrzennej miast*. Politechnika Krakowska, 1985.
2. Nowakowska Z., *Projektowanie architektoniczno-urbanistyczne wstępne*, Politechnika Krakowska, 1994.
3. Błądek Z., *Hotele*, Palladium, 2001.
4. Komar B., Tymkiewicz J., *Elewacje budynków biurowych*, 2006.
5. Kowicki M., *Współczesna agora*, Wydawnictwo Politechniki Krakowskiej, 2003.
6. Pallado J., Skupin A., *10 przypadków architektury usługowej*, Śląsk Wydaw. Naukowe.
7. Mokrzyński J., *Architektura wolnego czasu*. Arkady, 1973.
8. Szparkowski Z., *Zasady kształtowania przestrzeni i formy architektonicznej*, Oficyna Wydawnicza Politechniki Warszawskiej, 1993.

Notes

Classroom with equipment for multimedia presentations and large scale project layouts.