

FACULTY OF ARCHITECTURE

COURSE SYLLABUS

Course title in Polish: **Prawo budowlane w praktyce architekta**Course title in English: **Building Code in Architectural Practice**Main field of study (if applicable): **Architecture**

Specialization (if applicable): -

Profile: **academic**Level and form of studies: **1st level, full-time**Course type: **optional**Course code: **AUA105721S**Group of courses: **NO**

	Lecture	Tutorial	Laboratory	Project	Seminar
Number of hours of organized classes in University (ZZU)					30
Number of hours of total student workload (CNPS)					90
Form of crediting					Crediting with grade
For group of courses mark (X) final course					
Number of ECTS points					3
including number of ECTS points for practical (P) classes					3
including number of ECTS points for direct teacher-student contact (BK) classes					2

PREREQUISITES RELATED TO KNOWLEDGE, COMPETENCES AND SOCIAL SKILLS

COURSE OBJECTIVES

C1 - Acquiring basic knowledge about the scope of building code regulations and local spatial development plans impact on architectural solutions.

C2 - Acquiring the ability to research specific topics in the building code documents.

C3 - Acquiring the ability to apply the regulations within a specified design circumstances.

C4 - To familiarize the student with the regulations on fire safety, accessibility for disabled people, ensuring proper lighting conditions, interior acoustics, thermal conditions in buildings of various types.

COURSE LEARNING OUTCOMES

Relating to knowledge:

PEK_W01 - Student is acquainted with the provisions of the building code, regulating the principles of the building safety and its accessibility for disabled people, as well as other design matters. (K1A_W24)

PEK_W02 - Student can characterize the scope of building code regulations and find those pertinent to selected design problems of various building types. (K1A_W21)

Relating to competences:

PEK-U01 - Student is able to analyze design tasks in the light of the building code regulations and correctly interpret the requirements of the local spatial development plan. (K1A_U18)

PEK-U02 - Student is able to apply architectural solutions of less complex projects to full accordance with the building code. (K1_U28)

Relating to social skills:

PEK-K01 - Correctly identifies and resolves dilemmas related to architect's responsibility for the correctness of design solutions and their compliance with applicable law regulations. (K1A_K02)

PROGRAMME CONTENT

Seminar		Number of hours
Sem 1-2	Choice of a building (requirements as follows: a masterplan /urban development plan for the surrounding urban district, plans, cross sections and elevations (to scale). The building has to be within 4000 – 10 000 sq m). Description of the course goals and scope of analysis. Introductory presentation.	4
Sem 3-4	Regulations of the buildings' size, function, location within the local development plan. Situation of the building in its neighborhood, cultural and natural heritage sites. Siting as an interpretation of an urban masterplan (local zoning plan).	4
Sem 5-6	Site development requirements – parking, landscaping, circulation, greenery, water retention. The neighbours' welfare –noise emission, shading, access problems, distances between buildings.	4
Sem 7-8	Typology of buildings – requirements specific for the building type: educational, services, industrial– interpretation. Height of buildings as a factor for design solutions.	4
Sem 9-10	Fire safety in buildings: the number of users, evacuation routes, the evacuation time. Fire protection systems and their role in the building's safety: hydrants, sprinklers, water mist, gas as fire extinguishing installations, ventilation and other means of smoke reduction. Fire proofing of building elements, safety roads – case study interpretation.	4
Sem 11-12	Studies of internal conditions: interpretation of insolation (natural light) in analyzed buildings, interpretation of acoustic requirements in selected buildings.	4
Sem 13-14	Accessibility and universal design – interpretation of the building's solutions. Signage, colour schemes, wayfinding, routes for disabled vs routes of "normal" users.	4
Sem 15	Final presentations.	2
	Total hours	30

TEACHING TOOLS

N1 - Analytical studies of chosen cases.

N2 - Student own work – query of building code documents, individual consultations.

N3 - Multimedia presentation, thematic discussions.

ASSESSMENT OF ACHIEVEMENT OF LEARNING OUTCOMES

Evaluation (F – forming (during semester), C –	Number of learning outcome	Method of assessing the achievement of learning outcome
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concluding (at semester end)		
F1	PEK_W01 PEK_W02 PEK_U01 PEK_U02 PEK_K01	Presentation of case study analysis, prepared in course of the semester, including graphic and descriptive elements.

C = F1

BASIC AND ADDITIONAL LITERATURE

BASIC LITERATURE:

- [1] Local building code of student's country of origin.
- [2] Local planning regulations of the students' case study location/project.

ADDITIONAL LITERATURE:

- [1] Boys, J., *Doing disability differently: an alternative handbook on architecture, disability and designing for everyday life*, London, New York 2014.
- [2] Fischer, J., Meuser, P., *Accessible Architecture Construction and Design Manual*, Berlin 2012.
- [3] Heiss, O., Degenhart, C., Ebe, J., *Barrier-free design: principles, planning, examples*, Munich 2010.
- [4] Rasbash, D., *Evaluation of fire safety*, Chichester 2004.
- [5] Cavanaugh, W.J [ed.], Tocci, G.C. [ed.], Wilkes, J. A. [ed.], *Architectural acoustics: principles and practice*, Hoboken 2010.
- [6] Groat, L., Wang, D., *Architectural research methods* (second edition), Hoboken 2013.
- [7] Harries, K., *The Ethical function of Architecture*, Berkeley 1997.
- [8] Ray N. [ed.], *Architecture and its ethical dilemmas*, London, New York 2005.
- [9] Puton, K.[ed.], *Prawo budowlane: warunki techniczne i inne akty prawne*, Warszawa 2014.
- [10] Korzeniewski, W., *Odległości w zabudowie i zagospodarowaniu terenu*, Warszawa 2002.
- [11] Korzeniewski, W., Korzeniewski, R., *Warunki techniczne dla budynków i ich usytuowania, przepisy z komentarzem i 180 rysunkami, poradnik*, Warszawa 2017.
- [12] Neufert, E., Kister, J.: *Podręcznik projektowania architektoniczno-budowlanego: podstawy, normy, przepisy dotyczące planowania, budowy, kształtowania architektonicznego, potrzebnych przestrzeni i związków między nimi, wymiarów budynków i pomieszczeń*, Warszawa 2011.

COURSE SUPERVISOR (NAME AND SURNAME, E-MAIL ADDRESS)

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