

FACULTY OF ARCHITECTURE

**COURSE SYLLABUS**Course title in Polish: **Budownictwo Ogólne II**Course title in English: **General Construction II**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: **AUA115325P**Group of courses: **NO**

	Lecture	Tutorial	Laboratory	Project	Seminar
Number of hours of organized classes in University (ZZU)				<b>45</b>	
Number of hours of total student workload (CNPS)				<b>180</b>	
Form of crediting				<b>Crediting with grade</b>	
For group of courses mark (X) final course					
Number of ECTS points				<b>6</b>	
including number of ECTS points for practical (P) classes				<b>6</b>	
including number of ECTS points for direct teacher-student contact (BK) classes				<b>4</b>	

**PREREQUISITES RELATED TO KNOWLEDGE, COMPETENCES AND SOCIAL SKILLS****COURSE OBJECTIVES****C1** - To introduce students to the principles of developing project documentation - executive.**C2** - To introduce students to the principles of preparing architectural drawings of the selected building.**C3** - To introduce students to the basics of building fire protection.**C4** - To introduce students to the acoustic problems in a selected building - acoustic insulation of partitions, interior acoustics.**C5** - To introduce students to the basics of interior lighting with sunlight.**C6** - To introduce students to the basic problems of thermal insulation of the selected building.**COURSE LEARNING OUTCOMES****Related to knowledge:****PEK\_W01** - Basic knowledge of general construction. (K1A\_W05)**PEK\_W02** - Elementary knowledge of building physics. (K1A\_W07)**Related to competencies:****PEK\_U01** - Ability to develop architectural documentation - executive project of a building. (K1A\_U08)

**PEK\_U02** - Ability to search, analyze and select information using various sources concerning the use of appropriate materials, structures and construction technologies in design process. (K1A\_U08, K1A\_U09)

**PEK\_U03** - Ability to apply general principles of building physics in the buildings design process. (K1A\_U08, K1A\_U09)

**Related to social skills:**

**PEK\_K01** - Understanding of the importance of lifelong learning, inspire and organize the learning process of others. (K1A\_U02)

**PEK\_K02** - Awareness of responsibility for one's work and readiness to work in a team. (K1A\_K01, K1A\_K03)

**PROGRAMME CONTENT**

<b>Project</b>		<b>Number of hours</b>
Proj 1	Organizational classes. Presentation of the course syllabus, course completion requirements, literature.	3
Proj 2	Discussion of project topics.	3
Proj 3	Overview of issues related to the scope of the architectural and executive project. Individual student work on projects.	3
Proj 4	Overview of issues related to the land development project. Individual student work on projects.	3
Proj 5	Overview of issues related to detailed elaboration and description of horizontal and vertical building's cross-sections. Individual student work on projects.	3
Proj 6	Overview of issues related to the detailed elaboration and description of the building's facade. Individual student work on projects.	3
Proj 7	Presentation and hand in of the first stage of the project. Evaluation of the this stage of the project.	3
Proj 8	Overview of issues related to thermal insulation of the building. Individual student work on projects.	3
Proj 9	Overview of issues related to natural light lighting and shading analysis. Individual student work on projects.	3
Proj 10	Overview of issues related to the acoustics of a building. Individual student work on projects.	3
Proj 11	Overview of issues related to the detailed elaboration and description of drawings - architectural and construction details. Individual student work on projects.	3
Proj 12	Overview of issues related to the fire protection of the building. Individual student work on projects.	3
Proj 13	Consultations. Individual student work on projects.	3
Proj 14	Final hand-in of projects.	3
Proj 15	Summary of classes and projects	3
	<b>Total hours</b>	<b>30</b>

**TEACHING TOOLS**

**N1** - Expository lecture with elements of problem-solving lecture.

**N2** - Multimedia presentations.

**N3** - Educational discussion as a part of a project.

**N4** - Individual work - preparation of the project.

**N5** - Consultations.

**ASSESSMENT OF ACHIEVEMENT OF LEARNING OUTCOMES**

<b>Evaluation</b> (F – forming (during semester), C – concluding (at semester end))	Number of learning outcome	Method of assessing the achievement of learning outcome
F1	PEK_K01 PEK_U01 PEK_K02	First hand-in evaluation.
F2	PEK_W01 PEK_W02 PEK_U01 PEK_U02 PEK_U03 PEK_K01 PEK_K02	Final project evaluation.

**C = 25% F1 +75% F2**

### **BASIC AND ADDITIONAL LITERATURE**

#### **BASIC LITERATURE:**

- [1] Stefańczuk, B., *Budownictwo Ogólne*, vol.1, *Materiały i wyroby budowlane*, Warszawa 2007.
- [2] Klemm, P., *Budownictwo Ogólne*, vol.2, *Fizyka budowli*, Warszawa 2005.
- [3] Lichoła, L., *Budownictwo Ogólne*, vol.3, *Elementy budynków, podstawy projektowania*, Warszawa 2008.
- [4] Markiewicz, P., *Budownictwo Ogólne dla architektów*, Kraków 2006.
- [5] Markiewicz, P., *Detale projektowe dla architektów*, Kraków 2010.

#### **ADDITIONAL LITERATURE:**

- [1] PN-EN ISO 6946:1999 *Komponenty budowlane i elementy budynku. Opór cieplny i współczynnik przenikania ciepła. Metoda obliczania.*
- [2] Mittag, M., *Pratique de la Construction des Batiments*, Paris 1983.

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

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