

FACULTY OF ARCHITECTURE

COURSE SYLLABUS

Course title in Polish: **Budownictwo ogólne 1**Course title in English: **General construction 1**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: **AUA115075P**Group of courses **NO**

	Lecture	Tutorial	Laboratory	Project	Seminar
Number of hours of organized classes in University (ZZU)				45	
Number of hours of total student workload (CNPS)				180	
Form of crediting				Crediting with grade	
For group of courses mark (X) final course					
Number of ECTS points				5	
including number of ECTS points for practical (P) classes				5	
including number of ECTS points for direct teacher-student contact (BK) classes				4	

PREREQUISITES RELATED TO KNOWLEDGE, COMPETENCES AND SOCIAL SKILLS

COURSE OBJECTIVES

C1 - To introduce students to the principles of developing project documentation.**C2** - To introduce students to the principles of drawing architectural drawings - technical drawings of the selected object.**C3** - To develop the skills to prepare architectural and building details.

COURSE LEARNING OUTCOMES

Relating to knowledge:**PEK_W01** - Basic knowledge of general construction. (K1A_W05)**Relating to competences:****PEK_U01** - Ability to develop architectural and building documentation of a simple building. (K1A_U08)**PEK_U02** - Ability of searching, analyzing and selecting 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 the general principles of energy-efficient construction design. (K1A_U08)**Relating to social skills:**

PEK_K01 - Understand the importance of lifelong learning, inspire and organize the learning process of others. (K1A_U02)
PEK_K02 - Understand the responsibility for one's work and demonstrate readiness to follow the rules of teamwork. (K1A_K01, K1A_K03)

PROGRAMME CONTENT

Project		Number of hours
Proj 1	Organization classes. Scope of the lecture, course completion requirements, literature.	3
Proj 2	Presentation by students and discussion of project topics.	3
Proj 3	Overview of issues related to the scope of the construction project. Individual work on projects.	3
Proj 4	Overview of issues related to the site development plan. Individual work on projects.	3
Proj 5	Overview of issues related to the selection of structure, construction and building elements and the design of the foundations of the building. Individual work on projects.	3
Proj 6	Overview of issues related to detailed elaboration and description of horizontal cross-sections. Individual work on projects.	3
Proj 7	Overview of issues related to the detailed elaboration and description of vertical cross-sections. Individual work on projects.	3
Proj 8	Presentation and hand in of the first stage of the project by students. Evaluation of the first stage of the project.	3
Proj 9	Overview of issues related to the detailed elaboration and description of the building's facade. Individual work on projects.	3
Proj 10	Overview of issues related to the detailed elaboration and description of detailed drawings - architectural and constructional details. Individual work on projects.	3
Proj 11	Overview of issues related to the development of a technical description. Individual work on projects.	3
Proj 12	Consultations. Individual work on projects.	3
Proj 13	Consultations. Individual work on projects.	3
Proj 14	Final hand-in of projects.	3
Proj 15	Summary of classes and projects.	3
	Total hours	45

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		
Evaluation (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	Preliminary project
F2	PEK_W01 PEK_U01 PEK_U02 PEK_U03 PEK_K01 PEK_K02	Final project
C = 25 % F1 + 75 % F2		

BASIC AND ADDITIONAL LITERATURE
<p><u>BASIC LITERATURE:</u></p> <p>[1] Stefańczuk B. (ed.), <i>Budownictwo Ogólne</i>, t.1., <i>Materiały i wyroby budowlane</i>, Warszawa 2007.</p> <p>[2] Klem P., <i>Budownictwo Ogólne</i>, t.2., <i>Fizyka budowli</i>, Warszawa 2005.</p> <p>[3] Lichoła L., <i>Budownictwo Ogólne</i>, t.3., <i>Elementy budynków, podstawy projektowania</i>, Warszawa 2008.</p> <p>[4] Markiewicz P., <i>Budownictwo Ogólne dla architektów</i>, Kraków 2006.</p> <p>[5] Markiewicz P., <i>Detale projektowe dla architektów</i>, Kraków 2010.</p> <p><u>ADDITIONAL LITERATURE:</u></p> <p>[1] PN-EN ISO 6946:1999 <i>Komponenty budowlane i elementy budynku. Opór cieplny i współczynnik przenikania ciepła. Metoda obliczania</i>.</p> <p>[2] Mittag M., <i>Pratique De La Construction Des Batiments</i>, Paris 1983.</p> <p>[3] Markiewicz P., <i>Projekt jednego domu w pięciu technologiach</i>. Kraków 2002.</p>

COURSE SUPERVISOR (NAME AND SURNAME, E-MAIL ADDRESS)
<p>Janusz Bulat, M.Sc., Arch., Eng. janusz.jerzy.bulat@pwr.edu.pl</p>