Faculty of Civil and Environmental Engineering				
Study programme:	**Civil engineering**	Degree level: full-time	**Bachelor's degree**	
Specialization		Diploma path:	**-**	
Module name:	**General building engineering**			
Module type:	**obligatory**	Semester: **3**	ECTS **6**	Module ID: **B03325**
No. of hrs in semester:	**L - 30** **C- 30** LC- 0 **P- 30** SW- S-0			
Prerequisites:	*Engineering drawings and graphics, Strength of materials, Building materials*			
Teaching methods:	*lecture, classes,project*	*Assessment:*	*Evaluation must be relevant to the intended learning outcomes*	
		lecture - written exam, classes – written evaluation, presentation of a paper; project – written evaluation, defense of a project		
Aims and objectives:	*Main elements and systems of building objects. Principles of loads combinations. Construction of selected elements of buildings. Principles of preparation of drawings of brick buildings. Ability to select technology of building objects.*			
Module content:	*L: Traditional building engineering. Classification of buildings. Elements of buildings and building structures. Spatial rigidity of buildings. Expansion joints. Technical specifications for buildings and their location in building law. Excavations. Foundations. Building walls in traditional technology. Chimney walls. Ceilings. Staircases. Steep and flat roofs. Roofings. Windows and doors. Insulations. Finishing elements.* *C: Loading combinations. Simplified calculations of selected building elements. Presentation of selected technology of building construction.* *P: Specification and technical drawings of brick building*			

Learning outcomes	*Write min. 4, max. 8 learning outcomes in the following order: knowledge - skills - competences. Each learning outcome must be verifiable.*	*Relevance to the programme learning outcomes*
LO1	Student has a basic knowledge regarding designing and construction of selected building objects	K_B1_W11,
LO2	Student knows standard rules, regulations and building codes	K_B1_W07,
LO3	Student can recognize and classify building objects	K_B1_U02,
LO4	Student can determine and combine loads acting on elements and building objects	K_B1_U03,
LO5	Student selects and applies building materials – building elements in designed objects	K_B1_U07,
LO6	Student prepares and orally presents a selected construction technology	K_B1_U22,
LO7	Student understands a need to learn in order to improve professional and personal skills	K_B1_K01,
LO8		

student workload	lecture attendance	15x2h=	30
	participation in classes, projects , etc.	2x15x2h=	60
	preparation for classes, presentation, seminars, etc.	10x1=	10
	work on projects, reports, etc.	15x2=	30
	participation in student-teacher sessions related to the class / seminar / project	15x1h=	5
	preparation for and participation in exams		20
	preparation for and participation in classes tests		10
	preparation for and participation in project tests		15
			180
		TOTAL:	
quantitative indicators	Student workload - activities that require direct teacher participation 30h+60h+5h=95	95	ECTS
			3,5
	Student workload - practical skills activities 60h+10h+30h+5h+10h+15h=130	130	4,5
basic references:	*1. Allen E., Iano J.: Fundamentals of building construction: materials and methods. Wyd. Hoboken,NJ: Wiley & Sons, c. 2004*		
supplementary references:			

learning outcomes	*methods of assessing learning outcomes*	type of class (if more than one) where the outcomes are assessed
LO1	written exam, written evaluation of classes and project, project, defense of project, calculations, defense of calculation exercise	L, C, P
LO2	written evaluation of classes and project, project, defense of project, calculations, defense of calculation exercise	C, P
LO3	written exam	L
LO4	calculation exercise, defense of exercise, written evaluation	C
LO5	project, defense of project, written evaluation	P
LO6	oral presentation of a paper, discussion	C
LO7	discussions	C
LO8		

Department:	Department of B. and IR	Group instructors:	mgr inż. Jerzy Sulewski, dr inż. Katarzyna Kalinowska-Wichrowska, dr inż. Natalia Stankiewicz
Date:	16.10.2018	Coordinator:	mgr inż. Jerzy Sulewski