Faculty of Civil Engineering and Environmental Sciences									
Field of study								Degree level and programme type	
Specialization/ diploma path								Study profile	Academic profile
Course name	General building engineering							Course code	IS-FCEE-00216W
	General banany engineering							Course type	Erasmus
Forms and number of hours of tuition	L	С	LC	Р	SW	FW	S	Semester	winter
	30	30		30				No. of ECTS credits	6
Entry requirements	Technical drawing & engineering graphics, Civil engineering materials, Strength of materials								
Course objectives	The purpose of this module is to present students with: main elements and systems of buildings construction; principles of loads combinations; construction of selected elements of buildings; principles of preparation of engineering drawings of buildings with brick walls.								
Course 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 according to Polish building law. Foundations. Building with brick walls. Chimney walls. Ceilings. Staircases. Steep and flat roofs. Roofings. Windows and doors. Insulations. Finishing elements. C: Load combinations, calculation of loads. Simplified calculations of selected building elements. P: Specification and technical drawings of a building built from bricks 								
Teaching methods	A series of lectures to provide students with an overview of the issues relating to the main elements and systems of building construction, principles of load combinations; construction of selected elements of buildings. A series of classes covering actions on buildings, load calculations and calculation of simple structural elements. Project consisting in specification and technical drawings of a building built from bricks.								
Assessment method	L - written exam; C - written evaluation; P – completion of the student's								
Symbol of learning outcome	Learning outcomes						Reference to the learning outcomes for the field of study		
L01	Stude and c	ent (gra constru	aduate) ction o	has a f selec	basic l ted obi	knowle ects	dge req	garding designing	K_B1_W05, K_B1 U02
LO2	Stude	ent (gra	aduate) les	knows	s stand	ard rule	es, reg	ulations and	K_B1_W07, K_B1_W11
LO3	Stude const	ent (gra tructior	aduate) n object	recog	nizes a	ind clas	sifies	different	K_B1_U02

COURSE DESCRIPTION CARD

LO4	Student (graduate) determines and combines loads acting on	K_B1_U03					
	elements of construction objects						
LO5	Student (graduate) selects and applies construction materials in designed objects	K_B1_U05,	K_B1_U07				
LO6	Student (graduate) prepares specification and technical drawings of simple construction objects	K_B1_U04,	K_B1_U08				
Symbol of		Type of	f tuition				
learning	Methods of assessing the learning outcomes	durina w	hich the				
outcome		outcome is assessed					
	written exam written evaluation of class and project completion						
1.01	and defense of the student's project, completion of the	L, C, P					
201	calculation exercise						
1.02	written evaluation of class and project, completion and defense	C, P					
LOZ	of the student's project, completion of the calculation exercise						
LO3	written exam	L					
LO4	completion of a calculation exercise, written evaluation	С					
	completion and defense of the student's project, written	P P					
LO5	evaluation						
	completion and defense of the student's project, written						
LOG	evaluation						
	No. of hours						
	lecture attendance	3	0				
	participation in classes, projects, etc.	45					
	preparation for classes, projects, seminars, etc.	30					
	working on projects, reports, etc.	30					
Calculation	participation in student-teacher sessions related to the	5					
	classes/seminar/project						
	participation in examination	2					
	preparation for and participation in exams/tests	25					
	TOTAL:	167					
			No. of				
	Quantitative indicators	HOURS	ECTS				
			credits				
Student worl	82	3,0					
	Student workload – practical activities	110	4				
	1. Rozporządzenia Ministra Infrastruktury z dnia 12 kwietnia 2002	r. w sprawie	warunków				
	technicznych, jakim powinny odpowiadać budynki i ich usytuowanie, (Dz. U. Nr 75, poz.						
Basic	690), z późniejszymi zmianami.						
references	2. Allen E., Iano J.: Fundamentals of building construction: materia	als and meth	ods.				
	Hoboken, NJ: Wiley & Sons, 2004						
	3. Eurocodes: EC0, EC1, EC5						
Supplementary							
references							

Organisational unit conducting the course	Department of Construction and Road Engineering	Date of issuing the programme
Author of the programme	Dorota Małaszkiewicz, PhD, Eng, Natalia Stankiewicz, PhD, Eng,	10.03.2021

L – lecture, C – classes, LC – laboratory classes, P – project, SW – specialization workshop, FW - field work,

S – seminar