## **COURSE DESCRIPTION CARD – SPECIMEN**

Faculty of Civil Engineering and Environmental Sciences										
Field of study	Civil engineering						Degree level and programme type	Bachelor's degree		
Specialization/ diploma path	Study profile academ							academic		
Course name	General Building Engineering							Course code	IS-FCEE-00216W	
								Course type		
Forms and	L	С	LC	Р	sw	FW	S	Semester	winter	
number of hours of tuition	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		L - v	vritten	exam;	C - wr	itten e	valuati	ion; P – completion	of the student's	
method			proje	ect, wr	itten ev	valuati	on, def	fense of the student		
Symbol of									Reference to the	
learning				Lea	arning	outcor	nes		learning outcomes for	
outcome	64 -								the field of study	
L01		. •		•	a basic tion of		•	egarding ects	K_B1_W05, K_B1_U02	
LO2	Student (graduate) knows standard rules, regulations and								K_B1_W07,	
102	building codes  Student (graduate) recognizes and classifies different							a different	K_B1_W11 K_B1_U02	
LO3	Stud	ent (gr	auuate	) reco(	ymzes	and Cl	assitie	s unierent	N_B1_UUZ	

	construction objects					
104	Student (graduate) determines and combines loads acting on	K_B1_U03				
LO4	elements of construction objects					
LO5	Student (graduate) selects and applies construction	K_B1_U05, K_B1_U07				
LOJ	materials in designed objects					
LO6	Student (graduate) prepares specification and technical drawings of simple construction objects	K_B1_U04, K_B1_U08				
Symbol of learning outcome	Methods of assessing the learning outcomes	Type of tuition during which the outcome is assessed				
L01	written exam, written evaluation of class and project, completion and defense of the student's project, completion of the calculation exercise	L, C, P				
LO2	written evaluation of class and project, completion and defense of the student's project, completion of the C, I calculation exercise					
LO3	written exam	L				
LO4	completion of a calculation exercise, written evaluation	С				
LO5	completion and defense of the student's project, written evaluation	Р				
LO6	completion and defense of the student's project, written evaluation	Р				
	No. of hours					
	lecture attendance	30				
	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 classes/seminar/project	5				
	participation in examination	2				
	preparation for and participation in exams/tests	25				
	TOTAL:		67			
	HOURS	No. of ECTS credits				
Student workload – activities that require direct teacher participation (30+45+5+2)			3,0			
	Student workload – practical activities	110	4			
Basic references	2. Allen E., lano J.: Fundamentals of building construction: materials and methods.  Hoboken, NJ: Wiley & Sons, 2004  3. Eurocodes: EC0, EC1, EC5					
Supplementary						

references			
Organisational		Date of issuing the	
unit conducting	Department of Construction and Road Engineering	•	
the course		programme	
Author of the	Dorota Małaszkiewicz, PhD, Eng,	10.03,2021	
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L – lecture, C – classes, LC – laboratory classes, P – project, SW – specialization workshop, FW - field work, S – seminar