COURSE DESCRIPTION CARD

Faculty of Civil Engineering and Environmental Sciences												
Field of study								Degree level and programme type				
Specialization/ diploma path								Study profile	Academic profile			
Course name	Dui	rability			of stru	ctures	with	Course code	IS-FCEE-00097-1W			
			BII	/l elem	ents		1	Course type	Erasmus			
Forms and number of	L	С	LC	Р	sw	FW	S	Semester	winter			
hours of tuition	15							No. of ECTS credits	1			
Entry requirements	M	laterial	s dura	bility,	Buildi	•		Concrete structure ructures	es, Steel structures,			
Course objectives	Acquainting with the physical and chemical effects of the destruction of concrete and construction steel. Discussion of modern methods of measuring physical quantities in structures. Acquainting with the methods of conducting experimental research on models and objects "in situ". Getting to know the rules of carrying out test loads in building structures. Analysis of contemporary research methods in the areas of research interests of Erasmus students.											
Course content	Material destruction of concrete and construction steel. Non-destructive testing of existing structures. Laboratory tests on samples taken from the structure. Methods of measurement of deformation states in structures under temporary and long-term loads. Destructive strength tests of structural elements. Analysis of modern research methods in the areas of scientific interest of Erasmus students (independent presentations of students).											
Teaching methods						le	ecture,	, project				
Assessment method		lecture	– writt	en exa	m; proj	ect – p	roject (completion, presenta	ation and discussion			
Symbol of learning outcome						Reference to the learning outcomes for the field of study						
L01		ctly into	•	the ph	nenome	ena of r	nateria	l destruction in	B3_W02			
LO2	can ι	ise Inte	rnet ar	nd othe	er sourc	ces of c	latabas	ses	K_U23			
Symbol of learning outcome	Type of tuition during						Type of tuition during which the outcome is assessed					
LO1		oral t	est, ev	aluatio	n and	defense	e of a p	presentation	L, P			
LO2		oral t	est, ev	aluatio	n and	defense	e of a p	presentation	L, P			

	No. of hours		
Calculation	lecture attendance	15	
	participation in classes, laboratory classes, etc.		
	working on projects, reports, etc.		
	participation in student-teacher sessions related to the		
	classes/seminar/project		
	implementation of project tasks		
	preparation for and participation in exams/tests	10	
	TOTAL:	25	
	HOURS	No. of ECTS credits	
Student work	15	0,6	
Basic	Malkotra V. M., Carino N. J.: Handbook on nondestructive testing	of concrete.	CRC Press
references	2004		
Supplementary	Structural Engineering International, Journal IABSE		
references	Structural Engineering international, southar IABSE		
Organisational		Date of issuing the programme	
unit conducting	Department of Building Structures		
the course			
Author of the	dr inż. Aleksander Wawrusiewicz	15.03.2021	
programme	at the Alchoditati Wawasiewicz		

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

S – seminar