		STUDY MODULE D	ESCRIPTION FORM		
	f the module/subject crete Structures		Code 1010102111011003706		
Field of Stru		ng Second-cycle Studies	Profile of study (general academic, practical) (brak)	Year /Semester	
Elective path/specialty			Subject offered in: Polish	Course (compulsory, elective) obligatory	
Cycle o	f study:		Form of study (full-time,part-time)		
	Second-c	ycle studies	full-	time	
No. of h	nours		No. of credits		
Lectu	re: 15 Classes	s: - Laboratory: -	Project/seminars:	15 2	
Status	-	program (Basic, major, other)	(university-wide, from another field)		
Educati	on areas and fields of sci	(brak)	(brak) ECTS distribution (number		
Educati				and %)	
Resp	onsible for subj	ect / lecturer:	Responsible for subject	ct / lecturer:	
dr inż. Teresa Grabiec-Mizera email: teresa.grabiec-mizera@put.poznan.pl tel. +48 061 665 2085			mgr inż.Michał Demby email: michal.demby@put.poznan.pl tel. + 48 061 665 2085		
	ulty of Civil and Envirc 785 Poznań, ul.Piotrov	• •	Faculty of Civil and Environmental Engineering 60-785 Poznań, ul.Piotrowo 5		
Prere	equisites in term	s of knowledge, skills an	d social competencies:		
1	Knowledge	A student has the knowledge of general mechanics and strength of materials, basis of theory of reinforced concrete structures, knows analysis principles of simple and complex RC elements design. A student knows building standards and requirements concerning design of building structures and their elements.			
2	Skills	A student can estimate and report permanent and variable loads acting on building structures. Student can classify building structures, design RC structure elements and choose analytical or numerical solution of engineering problems.			
3	Social competencies	A student understands the need	I for lifelong learning and knows	s how to interact in a group.	
Assu	mptions and obj	ectives of the course:			
		nd skills concerning design of RC s. Preparing for modeling of RC s			
	Study outco	mes and reference to the	educational results for	a field of study	
Knov	vledge:				
1. A st	udent knows the basic	design method of RC slab eleme	ents in RC structures - [K 2 W02	2, K 2 W04, K 2 W14]	
2. A st	udent presents the des	sign issues of spatial RC structure	es - [K 2 W04, K 2 W09, K 2 W1	14]	
	udent knows the range /08, K 2 W16]	e applying of computers program	needed to analyse and design I	RC structures	
Skills	8:				
	udent uses building sta ires [K 2 W01, K 2 V	andards of loads on building struc V02, K 2 W03,]	tures as well as in the static cal	lculation and dimensioning of RC	
2. A st	udent is able to desigr	RC slab structures with taken fra	ames into consideration - [K 2 \	W03, K 2 W13]	
	al competencies:			¢	
[K 2 W	02, K 2 W03]	e need of lifelong learning, is able	0	s of others	
		rate and work in a group - [K 2 W			
3. He (correctly identifies and	resolves problems associated wit	tn his protession - [K 2 W07]		
		Assessment metho	ds of study outcomes		

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-Credit of exercise c						
Credit in written form	i (1.0h)					
Credit of projects						
Estimation of individ	ual projects on the basis of calculations and structural drawi	ngs with a defence o	f submitted work			
Number of evaluatio	n					
[%]	(grade)					
100- 91	A excellent					
90- 75	B very good					
74- 65	C good					
64- 51	D sufficient					
< 50	E failed					
	Course description					
-Form of teaching: c						
Method of designing and dimensioning RC slab structures especially two-way reinforced slabs						
Load report in two-way reinforced slabs						
Dimensioning of reinforced concrete slab structures to bending and shear ULS, SLS.						
Form of teaching: projects						
Project of two-way re	einforced slab					
Additional bibli	jey J., Hulse R. Reinforced Concrete Design Palgrave Macr ography:					
	Result of average student's wo	rkload				
Activity			Time (working			
1. Participation in audience classes			hours)			
1. Participation in au	dience classes					
•			hours)			
2. Participation in de			hours)			
 Participation in de Complete (at hom 	sign classes	sses	hours) 15 15			
 Participation in de Complete (at hom Participation in the 	sign classes e) works involved in the project	SSES	hours) 15 15 15 15			
 Participation in de Complete (at hom Participation in the 	sign classes e) works involved in the project e consultations associated with the audience and design cla	SSES	hours) 15 15 15 15 5			
 Participation in de Complete (at hom Participation in the 	sign classes e) works involved in the project e consultations associated with the audience and design cla nal test of classes content	hours	hours) 15 15 15 15 5			
 Participation in de Complete (at hom Participation in the Preparing to the find 	sign classes e) works involved in the project e consultations associated with the audience and design cla nal test of classes content Student's workload	hours	hours) 15 15 15 5 10 ECTS			
 Participation in de Complete (at hom Participation in the 	sign classes e) works involved in the project e consultations associated with the audience and design cla nal test of classes content Student's workload		hours) 15 15 15 5 10			