		STUDY MODULE D	ESCRIPTION FORM	
	f the module/subject crete Structures			Code 010101151010110072
Field of		st-cycle Studies	Profile of study (general academic, practical) general academic	Year /Semester 3 / 5
Elective	path/specialty	-	Subject offered in: Polish	Course (compulsory, elective) obligatory
Cycle o	f study:		Form of study (full-time,part-time)	<u> </u>
	First-cyc	cle studies	full-ti	me
No. of h	iours			No. of credits
Lectu	re: 30 Classes	s: 15 Laboratory: -	Project/seminars: 1	5 6
	-	program (Basic, major, other) basic ence and art	(university-wide, from another fiel univer	d) sity-wide ECTS distribution (number and %)
techr	nical sciences			6 100%
Resp	onsible for subj	ect / lecturer:	Responsible for subject	/ lecturer:
dr inż. Jacek Ścigałło email: jacek.scigallo@put.poznan.pl tel. +48 061 665 2465 Faculty of Civil and Environmental Engineering 60-785 Poznań, ul.Piotrowo 5			dr inż Teresa Grabiec-Mizera email: teresa.grabiec-mizera@put.poznan.pl tel. + 48 061 665 2085 Faculty of Civil and Environmental Engineering 60-785 Poznań, ul.Piotrowo 5	
Prere	auisites in term	s of knowledge, skills an	d social competencies	
1	Knowledge	of reinforced concrete structures	general mechanics and strength s, knows analysis principles of sir ws building standards and require ments.	nple and complex RC
2	Skills		oort permanent and variable loads uctures, design RC structure eler ering problems.	
3	Social competencies	A student understands the need	l for lifelong learning and knows h	low 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	i field of study
Knov	vledge:			
		design method of RC slab eleme	-	-
3. A st [K 2 W	udent knows the range 08, K 2 W16]	sign issues of spatial RC structure e applying of computers program		
Skills				
structu	res [K 2 W01, K 2 V	-		-
	udent is able to design al competencies:	n RC slab structures with taken fra	ames into consideration - [K 2 We	03, K 2 W13]
1. A st	-	e need of lifelong learning, is able	to organize the learning process	of others
		rate and work in a group - [K 2 W	01, K 2 W06]	
3. He o	correctly identifies and	resolves problems associated with	th his profession - [K 2 W07]	
		Assessment metho	ds of study outcomes	

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-Credit of exerc	ise classes					
Credit in written						
Credit of project						
	dividual projects on the basis of calculations and st	tructural drawings with a defence	of submitted work			
Number of eval		Ū.				
[%]	(grade)					
100- 91	A excellent					
90- 75	B very good					
74- 65	C good					
64- 51	D sufficient					
< 50	E failed					
	Course des	cription				
-Form of teaching	ng: classes					
Method of designing and dimensioning RC slab structures especially two-way reinforced slabs						
Load report in t	wo-way reinforced slabs					
Dimensioning of reinforced concrete slab structures to bending and shear ULS, SLS.						
Form of teachin	g: projects					
Project of two-w	vay reinforced slab					
Basic biblio	graphy:					
1. PN-EN 1992	-1-1 Eurokod 2. Projektowanie konstrukcji z betonu	ι. Część 1-1: Reguły ogólne i regu	ıły dla budynków.			
2. Ajdukiewicz A	A.: Eurokodu 2. Podręczny skrót dla projektantów k	construkcji żelbetowych.				
 Starosolski V 	V.: Konstrukcje żelbetowe według PN-B-03264:200	2 i Eurokodu 2. PWN				
4. Knauff M.: O	bliczanie konstrukcji żelbetowych według Eurokodu	ı, PWN Warszawa 2012				
5. Knauff M., Go Warszawa 2013	olubińska A.: Tablice i wzory do projektowania kons 3	strukcji żelbetowych z przykładan	ni obliczeń, PWN			
6. Łapko A., Jai	nsen B.C.: Podstawy projektowania i algorytmy obl	iczeń konstrukcji żelbetowych, Ar	kady, Warszawa 2005			
7. Rawska-Skot	tniczy A.: Obciążenia budynków i konstrukcji budov	vlanych według Eurokodów, PWN	I, Warszawa 2013.			
Additional k	bibliography:					
	trukcji Betonowych KILiW PAN Podstawy projektow Inośląskie Wydawnictwo Edukacyjne.	vania konstrukcji żelbetowych i sp	rężonych według			
2. Mosley B., B	ungey J., Hulse R.: Reinforced concrete design to I	Eurocode 2, Palgrave Macmillan	New York 2009.			
	Result of average stu	ident's workload				
			Time (working			
	Activity		Time (working hours)			
1. Participation	Activity					
•	· · · · · · · · · · · · · · · · · · ·		hours)			
2. Participation	in audience classes		hours)			
 Participation Complete (at 	in audience classes in design classes	and design classes	hours) 30 30			
 Participation Complete (at Participation 	in audience classes in design classes home) works involved in the project	and design classes	hours) 30 30 30 30			
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 Participation Complete (at Participation 	in audience classes in design classes home) works involved in the project in the consultations associated with the audience a the final test of classes content	-	hours) 30 30 30 30 30 30			
 Participation Complete (at Participation Preparing to 	in audience classes in design classes home) works involved in the project in the consultations associated with the audience a the final test of classes content Student's wo	orkload	hours) 30 30 30 30 30 30 30 30			
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