		STUDY MODULE D	ESCRIPTION FORM		
Name of the module/subject Concrete Structures			Code 1010102111010113706		
Field of Civil		cond-cycle Studies	Profile of study (general academic, practical) (brak)	Year /S	Semester 1 / 1
Elective	path/specialty	-	Subject offered in: English		e (compulsory, elective) obligatory
Cycle of	f study:		Form of study (full-time,part-time)		
	Second-c	ycle studies	full-time		
No. of h	ours		1	No. of o	credits
Lectur	e: - Classes	s: 15 Laboratory: -	Project/seminars:	15	2
Status o	-	program (Basic, major, other) (brak)	(university-wide, from another	^{iield)} (brak)	
Education	on areas and fields of sci	ence and art		ECTS of and %)	distribution (number
techr	nical sciences			2 10	00%
Resp	onsible for subje	ect / lecturer:	Responsible for subje	ct / lectu	rer:
dr inż.Teresa Grabiec-Mizera email: teresa.grabiec-mizera@put.poznan.pl tel. 616652085 Faculty of Civil and Environmental Engineering ul.Piotrowo 5, 60-965 Poznań			dr inż. Piotr Frąszczak email: piotr.fraszczak@put.poznan.pl tel. 616652057 Faculty of Civil and Environmental Engineering ul.Piotrowo 5, 60-965 Poznań		
	,	s of knowledge, skills an	,		
1	Knowledge	A student has the knowledge of of reinforced concrete structures elements design. A student know building structures and their eler	s, knows analysis principles of s ws building standards and requ	simple and o	complex RC
2	Skills	A student can estimate and rep Student can classify building str or numerical solution of enginee	ort permanent and variable loa uctures, design RC structure el		
3	Social competencies	A student understands the need	for lifelong learning and knows	s how to inte	eract 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 o	f study
Know	vledge:				
1. A stu	udent knows the basic	design method of RC slab eleme	nts in RC structures [K 2 W0	2, K 2 W04	l, K 2 W14]
2. A stu	udent presents the dea	sign issues of spatial RC structure	es [K 2 W04, K 2 W09, K 2 W	14]	
	udent knows the range 08, K 2 W16]	e applying of computers program	needed to analyse and design	RC structure	es -
Skills	5:				
	uses standards of load 01, K 2 W02, K 2 W03	s on structures as well as in the c 3, 2 W06, K 2 W07]	alculation and dimensioning of	RC structur	·es
	*	RC slab structures with taken fra	mes into consideration [K 2	W03, K 2 V	V13]
1. A stu	al competencies: udent understands the 02, K 2 W03]	need of lifelong learning, is able	to organize the learning proces	s of others.	-
-	-	rate and work in a group [K 2 W	/01, K 2 W06]		
3. He c	correctly identifies and	resolves problems associated wit	h his profession [K 2 W07]		

Assessment methods of study outcomes

Poznan University of Technology Faculty of Civil and Environmental Engineering

	se classes		
Credit in written			
Credit of projects			
	lividual projects on the basis of calculations and strue	ctural drawings with a defence of	f submitted work
Number of evalu			
[%]	(grade)		
100- 91	A excellent		
90-75	B very good		
74-65	C good		
64-51	D sufficient		
< 50	E failed		
	Course descri	iption	
-Form of teachin		-	
	ning and dimensioning RC slab structures especially	two-way reinforced slabs	
Load report in tw	vo-way reinforced slabs		
Dimensioning of	reinforced concrete slab structures to bending and s	hear ULS, SLS.	
Form of teaching			
Project of two-wa	ay reinforced slab		
Basic bibliog	graphy:		
	barwin D., Dolan w. Ch. Design Concrete Structures	Mc Graw Hill Higher Education	2004
	-	nio Oluw I ilii I lighor Edubation.	2004.
2 MOSIEV & RU	ndev. I. Hulse R. Reinforced Concrete Design Palar	ave Macmillan, 2007	
2. Mosley B., Bu	ngey J., Hulse R. Reinforced Concrete Design Palgr	ave Macmillan. 2007.	
-		ave Macmillan. 2007.	
2. Mosley B., Bu Additional b		ave Macmillan. 2007.	
-		ave Macmillan. 2007.	
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-	ibliography:		
Additional b	ibliography: Result of average stude		Time (working
Additional b	ibliography: Result of average stude Activity		Time (working hours)
Additional bi	ibliography: Result of average stude Activity		Time (working hours)
Additional bi	ibliography: Result of average stude Activity n audience classes n design classes	ent's workload	Time (working hours) 15 15
Additional bi	ibliography: Result of average stude Activity n audience classes n design classes home) works involved in the project.	ent's workload	Time (working hours) 15 15 15 15
Additional bi	ibliography: Result of average stude Activity n audience classes n design classes home) works involved in the project. n the consultations associated with the audience and	ent's workload	Time (working hours) 15 15 15 15 5
Additional bi	ibliography: Result of average stude Activity n audience classes n design classes home) works involved in the project. n the consultations associated with the audience and he final test of classes content	ent's workload	Time (working hours) 15 15 15 15 5
Additional bi	ibliography: Result of average stude Activity n audience classes n design classes home) works involved in the project. n the consultations associated with the audience and he final test of classes content Student's wor	ent's workload	Time (working hours) 15 15 15 15 15 15 15 15 15 15 15 5 10 ECTS
Additional bi	ibliography: Result of average stude Activity n audience classes n design classes home) works involved in the project. n the consultations associated with the audience and he final test of classes content Student's wor	ent's workload	Time (working hours) 15 15 15 15 15 15 10