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STUDY MODULE DESCRIPTION FORM							
Name of the module/subject C				Code 010102131010126037			
Field of	study		Profile of study	Year /Semester			
Civil Engineering Second-cycle Studies			(general academic, practical) general academic	2/3			
	path/specialty	oona oyolo otaaloo	Subject offered in:	Course (compulsory, elective)			
Roads and Highways			Polish	obligatory			
Cycle of	f study:		Form of study (full-time,part-time)				
Second-cycle studies			full-time				
No. of h	ours			No. of credits			
Lectur	e: 15 Classes	s: - Laboratory: -	Project/seminars:	. 1			
Status o	-	program (Basic, major, other)	(university-wide, from another fie	·			
		other	unive	sity-wide			
Educati	on areas and fields of sci	ence and art		ECTS distribution (number and %)			
techr	nical sciences			1 100%			
	Technical scie	ences		1 100%			
Responsible for subject / lecturer: Wojciech Siekierski email: Wojciech.Siekierski@put.poznan.pl tel. 0-61 6653413 Wydział Budownictwa i Inżynierii Środowiska ul. Piotrowo 5, Poznań							
	·	s of knowledge, skills an	d social competencies:				
1	Knowledge	Strength of materials, structural mechanics, concrete strictures, steel structures					
2	Skills	Basic static-strength calculations	S				
3	Social competencies	Honesty, responsibility					
Assu	mptions and obj	ectives of the course:					
Acquiri	ing the knowledge on	shaping, calculation, and erection	of slab and beam bridges				
Study outcomes and reference to the educational results for a field of study							
Knov	vledge:			-			
Shaping of reinforced concrete slab and beam bridges - [K_W02]							
2. Shaping of steel beam bridges - [K_W02]							
3. Shaping of pedestrian tunnels - [K_W02]							
Skills:							
1. Simple static-strength calculations of slab and beam bridges - [K_U01, K_U03, K_U04]							
2. Shaping of slab and beam bridges - [K_U01, K_U03, K_U04]							
3. Shaping pedestrian tunnels - [K_U01, K_U03, K_U04]							
	al competencies:						
	esty - [K_U01]						
2. Responsibility - [K_U02]							

Assessment methods of study outcomes				
Written colloquium				
Course description				

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Faculty of Civil and Environmental Engineering

Static-strength calculation of slab and beam bridges, design of reinforced-concrete and steel bridge beams. Slab and bridges: shaping, computations, construction, erection. Tunnels: shaping, design, calculations, erection.

Basic bibliography:

- 1. A. Madaj, W. Wołowicki Projektowanie mostów betonowych WKŁ Warszawa 2010
- 2. A. Ryżyński Mosty stalowe WKŁ 1985
- 3. K. Furtak, M. Kędracki Podstawy budowy tuneli Wyd. PK Kraków 2004

Additional bibliography:

Practical activities

Result of average student's workload

Activity	Time (working hours)					
Student's workload						
Source of workload	hours	ECTS				
Total workload	25	1				
Contact hours	15	1				

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