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Written exam

Discussion on design exercise

		STUDY MODULE D	ESCRIPTION FORM				
	f the module/subject	Code					
Field of		dge Engineering	Profile of study	1010104161010120359 Year /Semester			
	•		(general academic, practical)				
		st-cycle Studies	general academic	3/6			
Elective path/specialty			Subject offered in: Polish	Course (compulsory, elective) obligatory			
Cycle of study: Form			Form of study (full-time,part-time)	,			
First-cycle studies			part-	part-time			
No. of h	ours			No. of credits			
Lectur	e: 20 Classes	s: 10 Laboratory: -	Project/seminars:	12 5			
Status o	of the course in the study	program (Basic, major, other)	(university-wide, from another f	,			
		major	fro	om field			
Education	on areas and fields of sci	ence and art		ECTS distribution (number and %)			
techr	nical sciences			5 100%			
	Technical scie	5 100%					
Responsible for subject / lecturer: dr inż. Wojciech Siekierski email: Wojciech. Siekierski@put.poznan.pl tel. 61 6475834 Budownictwa i Inżynierii Środowiska ul. Piotrowo 5, 61-138 Poznań Prerequisites in terms of knowledge, skills and social competencies: 1 Knowledge Basics of strength of materials, structural mechanics, concrete structures, steel structures Skills Building construction behaviour, basics of structural computations Resposibility competencies Assumptions and objectives of the course: Acquiring basic knowledge on bridge structures, their forms, and elements							
	Study outco	mes and reference to the	educational results for	a field of study			
Know	/ledge:	and reference to the	Judoutional Toolito 101	aJia di diady			
	c definitions - [K_W09	91					
Basic definitions [IC_W00] Bridge types and their structural elements - [K_W09]							
3. Bridge equipment - [K_W09]							
Skills	S:						
Brudge drawing description - [K_U01]							
2. Indentification of functions of certain bridge element - [K_U01]							
3. Bridge loading arrangement on deck - [K_U04]							
Social competencies:							
	1. Selfreliance - [K_K01]						
2. Hon	esty - [K_K02]						

Assessment methods of study outcomes	

Course description

Basic definitions, bridge structure main elements, types and elements of bridge spans, types and element of bridge supports, bridge bearings, bridge span equipment, brudge structure dimensions, bridge classifications, dead and live load on bridges, basic methods of bridge span and support analysis

Basic bibliography:

- 1. Ryżyński A., Wołowicki W.: Karlikowski J., Skarżewski J.: Mosty stalowe, PWN, Warszawa 1985
- 2. Madaj A., Wołowicki W.: Projektowanie mostów betonowych, WKiŁ, Warszawa 2010
- 3. Madaj A., Wołowicki W.: Podstawy projektowania budowli mostowych, WKiŁ, Warszwa 2007

Additional bibliography:

1. PN-EN 1991-2:2007 Eurokod 1: Oddziaływania na konstrukcje, Część 2: Obciążenia ruchome mostów

Result of average student's workload

Activity	Time (working hours)

Student's workload

Source of workload	hours	ECTS
Total workload	125	5
Contact hours	45	2
Practical activities	40	2