STUDY MODULE DESCRIPTION FORM								
	the module/subject	das Engineering	Code					
Fundamentals of Bridge Engineering Field of study			Profile of study	1010104161010100359 Year /Semester				
	•		(general academic, practical)					
	Engineering Fire	st-cycle Studies	(brak)	3/6				
Elective	path/specialty	-	Subject offered in: Polish	Course (compulsory, elective) obligatory				
Cycle of	study:		Form of study (full-time,part-time)					
First-cycle studies			part-time					
No. of h	ours			No. of credits				
Lectur	e: 20 Classes	s: 10 Laboratory: -	Project/seminars:	12 4				
Status o		program (Basic, major, other)	(university-wide, from another	,				
		(brak)		(brak)				
Education	on areas and fields of sci	ence and art		ECTS distribution (number and %)				
Resp	onsible for subje	ect / lecturer:						
-	ab. inż. Wojciech Siek							
	il: Wojciech.Siekiersk							
	616475834							
	ownictwa i Inżynierii Ś Piotrowo 5, 61-138 Poz							
Prerequisites in terms of knowledge, skills and social competencies:								
		Basics of strength of materials,	structural mechanics, concrete	structures, steel structures				
1	Knowledge	Dadies of strongth of materials,						
_		Building construction behaviour,	basics of structural computation	ons				
2	Skills							
3	Social	Resposibility						
3	competencies							
Assu	mptions and obj	ectives of the course:						
Acquiri	ng basic knowledge o	n bridge structures, their forms, a	nd elements					
Study outcomes and reference to the educational results for a field of study								
Know	rledge:							
1. Basic definitions - [K_W09]								
2. Bridge types and their structural elements - [K_W09]								
3. Bridge equipment - [K_W10]								
Skills:								
Brudge drawing description - [K_U01] Indentification of functions of certain bridge element - [K_U14]								
3. Bridge loading arrangement on deck - [K_U04]								
	il competencies:							
	reliance - [K_K01]							
2. Honesty - [K_K02]								
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Assessment methods of study outcomes				
Written exam				
Discussion on design exercise				
Course description				

Faculty of Civil and Environmental Engineering

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 o	f average	student's	workload
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Activity	Time (working hours)				
Student's workload					
Source of workload	hours	ECTS			
Total workload	100	4			
Contact hours	60	2			
Practical activities	20	2			