Code

Name of the module/subject

Fund	damentals of Bri	1010104161010120359				
Field of	study Engineering Fir	st-cycle Studies	Profile of study (general academic, practical (brak)	Year /Semester 3 / 6		
	path/specialty	-	Subject offered in: Polish	Course (compulsory, elective) obligatory		
Cycle o	f study:		Form of study (full-time,part-time)			
	First-cyc	cle studies	part-time			
No. of h	nours			No. of credits		
Lectu	re: 20 Classe:	s: 10 Laboratory: -	Project/seminars:	12 4		
Status		program (Basic, major, other) (brak)	(university-wide, from another	field) (brak)		
Educati	on areas and fields of sci	ence and art		ECTS distribution (number and %)		
techr	nical sciences			4 100%		
	Technical scie	4 100%				
Resp	onsible for subj	ect / lecturer:				
ema tel. Buc	nż. Wojciech Siekiersk ail: Wojciech.Siekiersk 61 6475834 downictwa i Inżynierii Ś Piotrowo 5, 61-138 Po	i@put.poznan.pl Srodowiska				
	·	ns of knowledge, skills an	d social competencies	:		
1	Knowledge	Basics of strength of materials, structural mechanics, concrete structures, steel structures				
2	Skills	Building construction behaviour	basics of structural computation	ons		
3	Social competencies	Resposibility				
Assu	mptions and obj	ectives of the course:				
Acquir	ing basic knowledge o	on bridge structures, their forms, a	nd elements			
		mes and reference to the	educational results for	r a field of study		
	vledge:					
	ic definitions - [K_W09	-				
	ge types and their struge ge equipment - [K_W1	uctural elements - [K_W09]				
Skills		. •]				
	dge drawing description	on -[K_U01]				
	• •	of certain bridge element - [K_L	J14]			
	ge loading arrangeme					
	al competencies:	:				
	-reliance - [K_K01] esty - [K_K02]					
		Assassment metho	de of study outcomes			

STUDY MODULE DESCRIPTION FORM

Written exam

Discussion on design exercise

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	100	4		
Contact hours	60	2		
Practical activities	20	2		