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STUDY MODULE DESCRIPTION FORM							
Name of the module/subject Computer Methods				Code 1010102111010120145			
Field of	study			Profile of study	Year /Semester		
Civil	Engineering Se	cond-cycle Studies		(general academic, practical) (brak)	1/1		
Elective path/specialty Bridges and Underground Engineering				Subject offered in: Polish	Course (compulsory, elective) obligatory		
Cycle of study:				m of study (full-time,part-time)	Jan Jan J		
Second-cycle studies				full-time			
No. of h	iours		•		No. of credits		
Lectu	Clabbot			Project/seminars:	- 4		
Status	· ·	program (Basic, major, other) (brak)	(1	university-wide, from another fi	eld) ' brak)		
Educati	on areas and fields of sci	· /			ECTS distribution (number		
					and %)		
techr	nical sciences				4 100%		
Responsible for subject / lecturer: Wojciech Siekierski email: Wojciech.Siekierski@put.poznan.pl tel. 6475834 Budownictwa i Inżynierii Środowiska ul. Piotrowo 5							
Prerequisites in terms of knowledge, skills and social competencies:							
1	Knowledge	Strength of materials, structural mechanics, concrete bridges, steel bridges					
2	Skills	Basics of structural design, conceptual design of concrete and steel bridges					
3	Social competencies	Responsilbilty					
Assu	mptions and obj	ectives of the course:					
Acquiring knowledge on computer aided bridge design							
Study outcomes and reference to the educational results for a field of study							
Knov	vledge:						
Theoretical basics of computer aided anlysis of bridges - [K_W16]							
Computational models of bridge spans and supports - [K_W16] Method of varification computes analysis results. [K_W16]							
3. Method of verification computer analysis results - [K_W16] Skills:							
Creation of computational model of bridge - [K_U04]							
Regarding erection methods in computational model - [K_U04]							
3. Compuer analysis on bridge structure - [K_U04]							
Social competencies:							
	-reliance - [K_k01]						
2. Hon	2. Honesty - [K_K02]						

Assessment methods of study outcomes					
Written test					
Discussion on complete design excercises					
Course description					

2

Faculty of Civil and Environmental Engineering

Idea if finite element method

Computational models of bridge spans and supports

Basic bibliography:

Practical activities

1. Kmita J., Bień J., Machelski C.: Komputerowe wspomaganie projektowania mostów

Additional bibliography:

1. Madaj A., Wołowicki W.: Podstawy projektowania budowli mostowych

Result of average student's workload

Activity	Time (working hours)					
Student's workload						
Source of workload	hours	ECTS				
Total workload	60	4				
Contact hours	45	2				

30