

STUDY MODULE DESCRIPTION FORM		
Name of the module/subject Steel Bridges		Code 1010102121010120211
Field of study Civil Engineering Second-cycle Studies	Profile of study (general academic, practical) general academic	Year /Semester 1 / 2
Elective path/specialty Bridges and Underground Engineering	Subject offered in: Polish	Course (compulsory, elective) obligatory
Cycle of study: Second-cycle studies	Form of study (full-time, part-time) full-time	
No. of hours Lecture: 45 Classes: 30 Laboratory: - Project/seminars: 30		No. of credits 7
Status of the course in the study program (Basic, major, other) other		(university-wide, from another field) university-wide
Education areas and fields of science and art technical sciences Technical sciences		ECTS distribution (number and %) 7 100% 7 100%
Responsible for subject / lecturer: dr inż. Janusz Karlikowski email: Janusz.Karlikowski@put.poznan.pl tel. 616475833 Wydział Budownictwa i Inżynierii Środowiska ul. Piotrowo 5, Poznań		Responsible for subject / lecturer: dr inż. Wojciech Siekierski email: Wojciech.Siekierski@put.poznan.pl tel. 616475834 Wydział Budownictwa i Inżynierii Środowiska ul. Piotrowo 5, Poznań
Prerequisites in terms of knowledge, skills and social competencies:		
1	Knowledge	Strength of materials, structural mechanics, steel structures
2	Skills	Static-strength calculation of steel structures
3	Social competencies	Honesty, responsibility
Assumptions and objectives of the course: Acquiring the knowledge on construction and design of orthotropic decks, steel box-girder bridges and suspension bridges		
Study outcomes and reference to the educational results for a field of study		
Knowledge:		
1. Design of orthotropic decks - [K_W14, K_W16] 2. Design of steel box-girder bridges - [K_W14, K_W16] 3. Design of steel suspension bridges - [K_W14, K_W16]		
Skills:		
1. Design of steel orthotropic deck - [K_U03, K_U04] 2. Design of steel box-girder bridge - [K_U03, K_U04]		
Social competencies:		
1. Honesty - [K_K02] 2. Self-relianceResponsibility - [K_K01]		
Assessment methods of study outcomes		
Lectures: written exam Classes: written colloquium Project: completing the project and a debate on its correctness		

Course description		
Acquiring the knowledge on construction and design of orthotropic decks, steel box-girder bridges and steel suspension bridges.		
Basic bibliography:		
1. Ryżyński A., Mosty stalowe, PWN, Warszawa 1985		
2. Cusens A., Pama R., Analiza pomostów stalowych, WKŁ, Warszawa		
Additional bibliography:		
Result of average student's workload		
Activity	Time (working hours)	
Student's workload		
Source of workload	hours	ECTS
Total workload	175	7
Contact hours	110	4
Practical activities	70	3