

STUDY MODULE DESCRIPTION FORM		
Name of the module/subject Preparation for research		Code 1010125141010128606
Field of study Structural Engineering	Profile of study (general academic, practical) (brak)	Year /Semester 2 / 4
Elective path/specialty Road-Train Engineering	Subject offered in: Polish	Course (compulsory, elective) obligatory
Cycle of study: Second-cycle studies	Form of study (full-time, part-time) part-time	
No. of hours Lecture: - Classes: 10 Laboratory: - Project/seminars: -		No. of credits 16
Status of the course in the study program (Basic, major, other) (brak)		(university-wide, from another field) (brak)
Education areas and fields of science and art technical sciences Technical sciences		ECTS distribution (number and %) 16 100% 16 100%
Responsible for subject / lecturer: dr inż. Agnieszka Płatkiewicz email: agnieszka.platkiewicz@put.poznan.pl tel. 061 6653-484 Faculty of Civil and Environmental Engineering ul. Piotrowo 5 60-965 Poznań		
Prerequisites in terms of knowledge, skills and social competencies:		
1	Knowledge	The scope of the knowledge gained from the program the first cycle studies and the first and second semester of the second cycle
2	Skills	The skills acquired in the I and II course of studies in the areas: design, construction and maintenance of road-train engineering
3	Social competencies	Ability to work independently
Assumptions and objectives of the course: Preparing of students to execute the dissertation thesis		
Study outcomes and reference to the educational results for a field of study		
Knowledge:		
1. Student knows elements of patent and intellectual property protection law - [K_W18] 2. - [-]		
Skills:		
1. Student makes use of dedicated tools to find useful information - [K_U05] 2. Student can select analytical or numerical tools to solve technical problems - [K_U13] 3. Student can prepare elaborations talking him/her to for up - [K_U18] 4. Student can, in accordance with scientific principles and utilising appropriate research methods, formulate and carry out preliminary research work which leads to solving structural, technological and organizational problems occurring in civil engineering - [K_U17]		
Social competencies:		

1. Student can work on a problem individually and in a team - [K_K01]
2. Student bears responsibility for the reliability of results obtained through his/her own achievements and for the evaluation of the work done by the team he/she supervises, - [K_K02]
3. Student self dependently complements and widens his/her knowledge of modern processes and technologies in civil engineering - [K_K03]
4. Student can formulate and present opinions about civil engineering - [K_K07]
5. Student formulates conclusions and describes the results of his/her own research; presents significant results during scientific-technical conferences and publishes them in academic journals; can communicate effectively with the media - [K_K10]

Assessment methods of study outcomes		
The consultation viewing the progress and severity of the thesis and Final thesis exam		
Course description		
Course content compatible with the tasks detailed data in tab thesis topic		
Basic bibliography:		
1. Literatura naukowo - techniczna, normy, wytyczne, wymagania techniczne i technologiczne pozyskane przez dyplomanta zgodnie z tematyką pracy dyplomowej.		
Additional bibliography:		
1. Literatura naukowo - techniczna zebrana przez dyplomanta zgodna z tematyką pracy dyplomowej.		
Result of average student's workload		
Activity	Time (working hours)	
1. Direct contact/consultation with supervisor	10	
2. OWN WORK (Intependent work) Preparation of thesis and scientific research	390	
Student's workload		
Source of workload	hours	ECTS
Total workload	400	16
Contact hours	10	0
Practical activities	390	16