

<b>STUDY MODULE DESCRIPTION FORM</b>		
Name of the module/subject <b>Diploma Seminar</b>		Code <b>1010611371010610467</b>
Field of study <b>Transport</b>	Profile of study (general academic, practical) <b>general academic</b>	Year /Semester <b>4 / 7</b>
Elective path/specialty <b>Logistics of Transport</b>	Subject offered in: <b>Polish</b>	Course (compulsory, elective) <b>obligatory</b>
Cycle of study: <b>First-cycle studies</b>	Form of study (full-time, part-time) <b>full-time</b>	
No. of hours Lecture: - Classes: - Laboratory: - Project/seminars: <b>1</b>		No. of credits <b>15</b>
Status of the course in the study program (Basic, major, other) <b>other</b>		(university-wide, from another field) <b>university-wide</b>
Education areas and fields of science and art <b>technical sciences</b> <b>Technical sciences</b>		ECTS distribution (number and %) <b>15 100%</b> <b>15 100%</b>
<b>Responsible for subject / lecturer:</b>  Prof. dr hab. inż. Agnieszka Merkisz-Guranowska email: agnieszka.merkisz-guranowska@put.poznan.pl tel. 61 665 5988 Wydział Inżynierii Transportu ul. Piotrowo 3; 60-965 Poznań		
<b>Prerequisites in terms of knowledge, skills and social competencies:</b>		
1	<b>Knowledge</b>	Knowledge of issues related to the diploma thesis
2	<b>Skills</b>	Can apply the scientific method in problem solving, experiments implementation and elaboration of conclusions
3	<b>Social competencies</b>	He knows the limits of his knowledge and skills, can precisely formulate questions, understands the need for further education
<b>Assumptions and objectives of the course:</b> To deepen knowledge and skills about the organization and conducting scientific and technical work and presentation of the results of these works.		
<b>Study outcomes and reference to the educational results for a field of study</b>		
<b>Knowledge:</b>		
1. Student has a structured, theoretically founded general knowledge in the field of technology, transport systems and various means of transport - [T1A_W03]		
2. Student has knowledge about ethical codes regarding transport engineering - [T1A_W08]		
3. Student has basic knowledge of patents, copyright law and related rights - [T1A_W11]		
<b>Skills:</b>		
1. Student is able to prepare and present, in Polish and English, a well documented elaboration of problems in the field of transport engineering, including an oral presentation - [T1A_U16]		
2. Student is able to organize, cooperate and work in a group, assuming different roles in it and is able to properly define the priorities for the implementation of tasks - [T1A_U18]		
3. Student is able to plan and implement the process of his own permanent learning and knows the possibilities for further training - [T1A_U19]		
<b>Social competencies:</b>		

1. Student understands that in technology, knowledge and skills quickly become obsolete - [T1A\_K01]
2. Student is able think and act in an entrepreneurial way, including finding commercial applications for the system being created, bearing in mind not only business but also social benefits of the business - [T1A\_K03]
3. Student is aware of the social role of a technical university graduate, in particular, understands the need to formulate and communicate to the public, in the appropriate form, information and opinions on engineering activities, technical achievements, as well as the legacy and traditions of the profession of transport engineer - [T1A\_K04]

<b>Assessment methods of study outcomes</b>		
Assessment of the work outline and presentation of the concept of thesis and the results of the research.		
<b>Course description</b>		
General part: rules for the implementation of engineering diploma thesis and requirements for diploma thesis. Formulation of a technical problem and work thesis, study of literature, methodical part of the work, presentation of research results, elaboration of insights and conclusions. Principles of editing work and quoting literature.		
Second part: presentation of the thesis concept by the authors and discussion about them.		
<b>Basic bibliography:</b>		
1. Leszek W. Badania empiryczne. Wyd. ITE, Radom 1997.		
2. Opoka E., Uwagi o pisaniu i redagowaniu prac dyplomowych na studiach technicznych, Wyd. Politechniki Śląskiej, Gliwice 2003		
3. Dobre obyczaje w nauce. Zbiór zasad i wytycznych (wyd. 3), Wyd. PAN Warszawa 2001		
<b>Additional bibliography:</b>		
1. Wojciechowska R., Przewodnik metodyczny pisania pracy dyplomowej. Wyd. DIFIN, 2010		
<b>Result of average student's workload</b>		
Activity	Time (working hours)	
1. Preparation of the diploma thesis	350	
2. Discussion and consultations	15	
3. Participation in the seminar	15	
<b>Student's workload</b>		
Source of workload	hours	ECTS
Total workload	400	15
Contact hours	30	1
Practical activities	350	14