

STUDY MODULE DESCRIPTION FORM		
Name of the module/subject Diploma Seminar		Code 1010625331010620467
Field of study Transport	Profile of study (general academic, practical) (brak)	Year /Semester 2 / 3
Elective path/specialty Ecology of Transport	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: - Laboratory: - Project/seminars: 9		No. of credits 20
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 %) 20 100% 20 100%
Responsible for subject / lecturer: prof. dr hab. inż. Jacek Pielecha, prof. nadzw. email: jacek.pielecha@put.poznan.pl tel. 61 665 2118 Faculty of Transport Engineering ul. Piotrowo 3 60-965 Poznań		
Prerequisites in terms of knowledge, skills and social competencies:		
1	Knowledge	Student knowledge of specialization subjects and undergraduate seminar.
2	Skills	Student can use computer programs to edit technical texts including the formulas, tables and technical computing.
3	Social competencies	Student understands the need for correct citation for their thesis.
Assumptions and objectives of the course: Familiarize with the basic elements of the philosophy of science. Help to prepare a thesis on the appropriate technical and formal level.		
Study outcomes and reference to the educational results for a field of study		
Knowledge: 1. Student knows how to implement the Master thesis depending on paper type - [K2A_W15]		
Skills: 1. Student can (in a critical way) use different sources of information during writing a thesis - [K2A_U02] 2. Student can, in writing, present the effects of his work - [K2A_U06]		
Social competencies: 1. Student understands the need for continuous learning. Is aware of the social impact of engineering activity - [K2A_K06]		
Assessment methods of study outcomes		
presentation		
Course description		
The correct formulation of the main aim and plan of thesis. Basic elements of the philosophy of science (scientific problem and conditions for scientific problem formation, formulate scientific hypotheses, verification of hypotheses, methods of empirical research, the general principles of experimentation, models and modeling, development of the experimental results). Inference, assorted elements of scientific language - accuracy, scientific law, scientific theory, important principles of scientific writing. Stage of work reporting. Thesis presentation		

Basic bibliography:		
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		
4. Zaczyński W.: Poradnik autora prac seminaryjnych, dyplomowych i magisterskich. Warszawa 1995		
5. Urban S., Ładoński W., Jak napisać dobrą pracę magisterską, wyd. 4 uzup., Wyd. Akademia Ekonomiczna we Wrocławiu, Wrocław 2001		
Additional bibliography:		
1. Wojciechowska R., Przewodnik metodyczny pisania pracy dyplomowej. Wyd. DIFIN, 2010		
2. Boć J., Jak pisać pracę magisterską, wyd. 4 popr., Wyd. Kolonia Wrocław, 2003		
Result of average student's workload		
Activity	Time (working hours)	
1. Preparedness project	450	
2. Consultation	50	
Student's workload		
Source of workload	hours	ECTS
Total workload	500	20
Contact hours	50	2
Practical activities	450	18