

STUDY MODULE DESCRIPTION FORM		
Name of the module/subject Proseminar		Code 1010612221010614114
Field of study Transport	Profile of study (general academic, practical) (brak)	Year /Semester 1 / 2
Elective path/specialty Road Transport	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: 1 Classes: - Laboratory: - Project/seminars: -		No. of credits 1
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 %) 100 1% 100 1%
Responsible for subject / lecturer: prof. dr hab. inż. Karol Nadolny email: karol.nadolny@put.poznan.pl tel. 61 665 22 19, 61 665 22 36 Faculty of Machines and Transport ul. Piotrowo 3, 60-965 Poznań		
Prerequisites in terms of knowledge, skills and social competencies:		
1	Knowledge	Level engineering. Methods in the area of planning and road transport organization, rational use of warehouse facilities and other material resource (including road vehicles as a means of transport).
2	Skills	Practical experience gained from the implementation of engineering thesis.
3	Social competencies	Awareness of the importance and proper transport organization not only in terms of meeting the needs but also environmental protection.
Assumptions and objectives of the course: Reminder general principles writing diploma theses (analytical, synthetic and design).		
Study outcomes and reference to the educational results for a field of study		
Knowledge:		
1. New expanded knowledge about how to plan, carry out the work of a scientific nature including Master. - [K2A_W21]		
Skills:		
1. Preparation the framework plan of Master thesis. - [K2A_U05]		
Social competencies:		
1. Awareness of the respect for the scientific achievements, which are used to carry out the work, by reference to the original source of the images (need citation, list of sources of information). - [K2A_K03]		
2. Understanding the seriousness of activities which are action plagiarism. - [K2A_K03]		
3. The ambition of the original extension the existing state of knowledge in the thesis course. - [K2A_K01]		
Assessment methods of study outcomes		
Participation and activity in a discussion on the content topics held in the classroom. Developing, presenting and discussing the framework plan thesis.		
Course description		

Scientific knowledge. Types of theses: a review, the experimental design. The consequences of formulating thesis topic; field of knowledge, detailed knowledge of the area, object (s) of analysis, formulation of the problem of cognitive, vision of the work is, general purpose work. Selection of sources of information science and technology. Analysis of the current state of knowledge. Identification of information gaps. The general objective of labor. General Purpose. The formulation of specific objectives. Methods of planning experiments. Measurements and results. Errors of measurement and analysis. Organisation the survey. Statistical database. Methods for analysis of results. Specific conclusions. Frame work plan, sections and subsections. The order of writing the work items. Quoting, footnotes, inventory of sources of information. The methods and principles of editing; illustrative material, charts, diagrams, drawings, attachments, kitchen. Summary of work; general conclusions, directions for further research. Realization rules ethics. The role of the promoter.

Basic bibliography:

1. Boć J.: Jak pisać pracę magisterską, Wrocław: Kolonia Limited, 2009, wyd 7.
2. Szkutnik Z.: Metodyka pisania pracy dyplomowej, Wyd. Poznańskie, Poznań 2005.
3. Majchrzak J., Mendel T.: Metodyka pisania prac magisterskich i dyplomowych. Wydawnictwo AE w Poznaniu, Poznań 2005.
4. Opoka E.: Uwagi o pisaniu i redagowaniu prac dyplomowych na studiach technicznych, Gliwice, Wyd. Politechniki Śląskiej, 2002

Additional bibliography:

1. Pytkowski Wacław., Organizacja badań i ocena prac naukowych, PWN, Warszawa 1981.
2. Polański Z.: Planowanie doświadczeń w technice, PWN, W-wa, 1994.

Result of average student's workload

Activity	Time (working hours)
1. Participation in the lecture	15
2. Consolidation of the lecture	5
3. Konsultacje	2
4. Preparation for exam (preparation of the framework plan of the Master thesis)	15
5. Examination	1

Student's workload

Source of workload	hours	ECTS
Total workload	38	1
Contact hours	18	1
Practical activities	15	1