

STUDY MODULE DESCRIPTION FORM		
Name of the module/subject Diploma Seminar		Code 1010612331010600467
Field of study Transport	Profile of study (general academic, practical) general academic	Year /Semester 2 / 3
Elective path/specialty Logistics of 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: - Classes: - Laboratory: - Project/seminars: 1		No. of credits 20
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 %) 20 100% 20 100%
Responsible for subject / lecturer: dr hab. inż. Piotr Sawicki email: piotr.sawicki@put.poznan.pl tel. +48 61 665 22 49 Faculty of Transport Engineering ul. Piotrowo 3, 61-138 Poznań		
Prerequisites in terms of knowledge, skills and social competencies:		
1	Knowledge	A student has advanced and in-depth knowledge in the field of transport engineering, theoretical foundations of tools applied to solve simple engineering problems [T2A_W01]
2	Skills	A student is able to plan and carry out experiments, including measurements and simulations, interpret the obtained results and draw conclusions. He/she is able to formulate and verify hypotheses related to complex engineering problems and simple research problems [T2A_U03]
3	Social competencies	A student understands that skills in technology quickly become out-dated [K2A_K05]
Assumptions and objectives of the course: To advance a knowledge and skills on planning and conducting scientific papers as well as the ability to present the results of own work.		
Study outcomes and reference to the educational results for a field of study		
Knowledge:		
1. A student has advanced knowledge of selected issues in the field of transport engineering - [T2A_W03] 2. A student is able to use advanced methods, techniques and tools to solve complex engineering problems and conduct research in a selected area of transport - [T2A_W06]		
Skills:		
1. The student can acquire information from literature, databases and other sources (in Polish and English), integrate them, make their interpretation and critical evaluation, draw conclusions and formulate and fully justify opinions - [T2A_U01] 2. A student is able to solve complex decision problem with a support of a new methods. The problem is related to field of transport engineering, including a typical tasks containing a research component - [T2A_U10] 3. A student is able to prepare and present a scientific paper in Polish and English. It is a presentation of the results of scientific research or oral presentation on specific issues in the field of transport engineering - [T2A_U13]		
Social competencies:		
1. A student understands the importance of popularizing activities regarding the latest achievements in the field of transport engineering - [T2A_K03]		

Assessment methods of study outcomes

During the seminar key tasks related to the preparation of master's thesis are carried out, including construction of a work outline and the preparation of a summary presentation. These effects are evaluated, however, the crucial requirement is the acceptance of the work by its supervisor.

Course description

1. Work structure - outline preparation

Requirements for the M.Sc. thesis; formulation of the title of the work and the main objective and research tasks. Development of a table of contents extended with a short characteristic of the content of individual elements of the work.

2. Edition of M.Sc. thesis

Work with the template required by Quality Management System at FTE PUT; literature management; citing techniques. Placing figures and tables into the work. The most common editing errors.

3. The key components of a M.Sc. thesis

Preparation of a key element of the thesis, including summary, introduction, conclusions. The most common errors related to the formulation of key components of the M.Sc. thesis.

4. Workshops on supporting the progress of individual master's thesis

Assessment of the progress of individual M.Sc. thesis; identification of problems related to the current status of master's thesis; ways to minimize the risk of late work implementation.

5. Defence of M.Sc. thesis

Requirements for accepting work by the supervisor; anti-plagiarism evaluation of M.Sc. thesis (a result generated by Jednolity System Antyplagiatowy - JSA), key elements of the review and supervisor's opinion. The defence strategies; responding to comments contained in the review.

6. A final presentation

Guidelines for the preparation of individual achievements; structure and content of presentations, behavioural elements of oral presentation. The most common errors during oral presentation.

7. Summary

Review of presentations summarizing the implementation of M.Sc. thesis.

Basic bibliography:

1. Sawicki P. Seminarium dyplomowe. Politechnika Poznańska, Wydział Inżynierii Transportu. E-skrypt dostępny na http://piotr.sawicki.pracownik.put.poznan.pl/dydaktyka/_prace-dyplomowe, Poznań, 2009

Additional bibliography:

1. WIT PP, Procedura przygotowania prac dyplomowych i prowadzenia egzaminów dyplomowych. PJK_W05, <http://www.fte.put.poznan.pl>
2. Wojciechowska R., Przewodnik metodyczny pisania pracy dyplomowej. Wyd. DIFIN, 2010
3. Boć J., Jak pisać pracę magisterską, wyd. 4 popr., Wyd. Kolonia Wrocław, 2003
4. Opoka E., Uwagi o pisaniu i redagowaniu prac dyplomowych na studiach technicznych, Wyd. Politechniki Śląskiej, Gliwice 2003
5. Urban S., Ładoński W., Jak napisać dobrą pracę magisterską, wyd. 4 uzup., Wyd. Akademia Ekonomiczna we Wrocławiu, Wrocław 2001

Result of average student's workload

Activity	Time (working hours)
1. Preparation to the classes (writing a M.Sc. thesis)	483
2. Participation in classes (according to plan)	15
3. Consultation	2

Student's workload

Source of workload	hours	ECTS
Total workload	500	20
Contact hours	17	1
Practical activities	500	20