STUDY MODULE DESCRIPTION FORM

Name of the module/subject **Diploma Seminar**		Code **1010125141010120109**
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: **-** Laboratory: **-** Project/seminars: **12**		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 %) **1 100%** **1 100%**

Responsible for subject / lecturer:

dr hab. inż. Mieczysław Słowik
email: Mieczyslaw.Slowik@put.poznan.pl
tel. 61 665 24 78
Faculty of Civil and Environmental Engineering
ul. Piotrowo 5 60-965 Poznań

Prerequisites in terms of knowledge, skills and social competencies:

1	**Knowledge**	Student: - has the knowledge needed to formulate a technical problem in the field of road construction and searching for its solution - is familiar with the general requirements to be met by Master thesis
2	**Skills**	Student: - is able to formulate a technical problem concerning Master thesis and to find a way of its solution - can prove the thesis formulated by himself - can make a critical assessment of the problem and methods accepted for its solution.
3	**Social competencies**	Student: - understands the need for lifelong learning - is aware of the validity of the effects of engineering activities and responsibility for his decisions - follows the principles of ethics

Assumptions and objectives of the course:

Summary and extension of the knowledge gained during second degree of the studies.

Developing skills of voicing a public presentation on a given topic.

Familiarize with the requirements relating to the accession of the final exam, preparation of Master thesis and its defense.

Study outcomes and reference to the educational results for a field of study

Knowledge:

1. Student has knowledge of the impact of the investments and the existing roads on the environment - [K_W13]
2. Student knows the principles of design, construction and operation of roads - [K_W16]
3. Student knows the elements of the law on the protection of intellectual property - [K_W18]

Skills:

1. Student uses information technology, resources of the Internet and other sources to search for information, communication and obtaining of software to support the work of the designer and organizer of the road construction process - [K_U05]
2. Student can choose the tool (analytical or numerical) to solve technical problems (concerning road construction) - [K_U13]
3. Student is able to plan and perform experiments, including measurements and computer simulations, interpret the results and formulate conclusions - [K_U11]

Social competencies:
1. Carrying out specific tasks Student is able to work individually, or to work in a team - [K_K01]
2. Student is responsible for the accuracy of the results of his work - [K_K02]
3. Student is aware of the need to enhance his professional and personal competence - [K_K06]

Assessment methods of study outcomes
Assessment of prepared presentations and Student activity during seminars.
Course description
Familiarize the Students with the principles of formal accession to the final exam (terms, conditions). Statutory requirements concerning the implementation and editing the Master thesis, form, scope, layout and the time frame. Study of literature as an important element of the thesis. The formulation of theses and purpose of the work. Analysis of results and discussion. Conclusions. Methodology of scientific work. Overview of presentation techniques. Short presentation by the Student of his Master thesis with a discussion. Presentation by students of the most important scientific and technical publications not related or connected with the subject of Master thesis.
Basic bibliography:
1. Dembecka W., Metodyka studiowania w uczelni technicznej, Wyd. Pol. Poznańskiej Poznań 1994.
2. Szkutnik Z., Metodyka pisania pracy dyplomowej. Skrypt dla studentów, Poznań 2005
3. Kozłowski R., Praktyczny sposób pisania prac dyplomowych z wykorzystaniem programu komputerowego i Internetu, Warszawa 2009
4. Rozporządzenie Ministra Nauki i Szkolnictwa Wyższego z dnia 19 grudnia 2008 r. w sprawie rodzajów tytułów zawodowych nadawanych absolwentom studiów i wzorów dyplomów oraz świadectw wydawanych przez uczelnie. (Dz.U. 2009 nr 11 poz. 61)
5. Rozporządzenie Ministra Nauki i Szkolnictwa Wyższego z dnia 14 września 2011 r. w sprawie dokumentacji przebiegu studiów. (Dz.U. 2011 nr 201 poz. 1188)
6. Regulamin studiów stacjonarnych i niestacjonarnych pierwszego i drugiego stopnia oraz jednolitych magisterskich uchwalony przez Senat Akademicki Politechniki Poznańskiej Uchwałą Nr 89 z dnia 28 kwietnia 2010 r. na podstawie ustawy z dnia 27 lipca 2005 r. Prawo o szkolnictwie wyższym (Dz. U. Nr 164, poz. 1365 z późn. zm.).
7. Ustawa z dnia 27 lipca 2005 r. Prawo o szkolnictwie wyższym. (Dz.U. 2005 nr 164 poz. 1365, tekst jednolity Dz.U. 2012 poz. 572)
8. Ustawa z dnia 4 lutego 1994 r. o prawie autorskim i prawach pokrewnych. (Dz.U. 1994 nr 24 poz. 83)
Additional bibliography:
1. Rajczyk J., Rajczyk M., Respondek Z., Wytyczne do przygotowania prac dyplomowych magisterskich i inżynierskich na Wydziale Budownictwa Politechniki Częstochowskiej, Częstochowa 2004
2. Bobrowski D., Wybrane metody wnioskowania statystycznego, Wyd. Pol. Poznańskiej Poznań 1988
3. Opoka E., Uwagi o pisaniu i redagowaniu prac dyplomowych na studiach technicznych., Wydawnictwo Politechniki Śląskiej, Gliwice, 2003

Result of average student's workload

Activity	Time (working hours)
1. Obligatory participation in diploma seminars	12
2. Preparation of presentation on the subject of realized Master thesis	18

Student's workload

Source of workload	hours	ECTS
Total workload	30	1
Contact hours	12	1
Practical activities	12	1