

STUDY MODULE DESCRIPTION FORM		
Name of the module/subject Diploma Seminar		Code 1010104191010120109
Field of study Civil Engineering First-cycle Studies	Profile of study (general academic, practical) (brak)	Year /Semester 5 / 9
Elective path/specialty -	Subject offered in: Polish	Course (compulsory, elective) obligatory
Cycle of study: First-cycle studies	Form of study (full-time,part-time) part-time	
No. of hours Lecture: - Classes: 14 Laboratory: - Project/seminars: -		No. of credits 2
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 %) 2 100% 2 100%
Responsible for subject / lecturer: dr inż. Agnieszka Płatkiewicz email: agnieszka.platkiewicz@put.poznan.pl tel. 061 6653-484 Faculty of Civil and Environmental Engineering ul. Piotrowo 5 60-965 Poznań		
Prerequisites in terms of knowledge, skills and social competencies:		
1	Knowledge	K_W02 - The student has a basic knowledge in the field of road construction (Soil mechanics, Technology of road materials and Basic of road construction) K_W05 - The student knows the basic methods, techniques, tools and materials used in solving simple engineering tasks. K_W06 - The student has a basic knowledge necessary to understand the social, economic and legal conditions of engineering activity.
2	Skills	K_U01 ? The student can make an identification and formulate the specification of simple engineering tasks of a practical nature. K_U05 - The student can obtain information from literature, databases and other sources, integrate the received information, make their interpretation, and draw conclusions. K_U09 - The student can make a critical analysis of the methods of operation and evaluate the existing technical solutions.
3	Social competencies	K_K01 - The student can work independently and collaborate as a team on a designated task. K_K02 - The student can properly identify the priorities for implementation of the task specified by himself or others.
Assumptions and objectives of the course: To provide knowledge of current engineering and system maintenance, manufacturing of problem solving skills related to the maintenance of roads, both in the maintenance and the maintenance of the current system, prepare the graduate to achieve a visual assessment of the road surface and the choice of measuring devices for assessment of surface and selection maintenance procedures		
Study outcomes and reference to the educational results for a field of study		
Knowledge:		
1. The student knows the overall technical specifications concerning the road investment works and the technical requirements WT-2010 - [[K_W06]] 2. The student knows the technologies of construction of individual structure courses of the road pavement - [[K_W11]] 3. The student knows the methods of assessment of the technical condition of the road pavements, shoulders and drainage, and the methods of road management - [[K_W14]] 4. The student knows the issues of the current and system maintenance of the technical condition of the elements included in the total land requirement and the technical specifications for road maintenance works - [[K_W15]] 5. The student knows the basic rules of construction, dimensioning and designing of geometric components of road intersections and grade separated junctions - [[K_W16]]		

Skills:
<p>1. The student can take advantage of the overall technical specifications to create the detailed technical specifications for road pavement works - [[K_U05]]</p> <p>2. The student can define tasks within the scope of the current road maintenance and pavement management systems (PMS) and appoint a global assessment of the technical condition of the road pavement - [[K_U16]]</p> <p>3. The student can measure the construction components of road intersections and grade separated junctions and design the simple geometric form of intersection, check the visibility and passability at intersections and exits - [[K_U08]]</p>
Social competencies:
<p>1. The student can formulate opinions on the technical and technological processes in road construction - [[K_K07]]</p> <p>2. The student understands the need to forward knowledge on the technical condition of road pavements and inform the public in a sufficiently convincing manner as the failure or delay of intended pavement maintenance works could affect adversely the condition and usability of the road network - [K_K08]. - [[K_K08]]</p> <p>3. The student understands the need for learning all his life, can inspire and organize the learning process to others - [[K_K03]]</p>

Assessment methods of study outcomes		
Information about the exam questions and the form of exam is passed on to students during the first lecture.		
Course description		
Graduates familiar with the principles of formal accession to the final exam (terms and conditions). Statutory requirements for the preparation of the thesis, form, scope of work and the time frame. Presentation of the graduates (in the form of a short presentation) topic of your thesis and possible discussion. Presentation by graduates of interesting publications in scientific and technical press is not associated or related to the subject of the diploma and a possible discussion.		
Basic bibliography:		
<p>1. Dembecka W., Metodyka studiowania w uczelni technicznej, Wyd. Pol. Poznańskiej Poznań 1994.</p> <p>2. Szkutnik Z., Metodyka pisania pracy dyplomowej. Skrypt dla studentów, Poznań 2005</p> <p>3. Kozłowski R., Praktyczny sposób pisania prac dyplomowych z wykorzystaniem programu komputerowego i Internetu, Warszawa 2009</p> <p>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)</p> <p>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)</p> <p>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.).</p> <p>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)</p> <p>8. Ustawa z dnia 4 lutego 1994 r. o prawie autorskim i prawach pokrewnych. (Dz.U. 1994 nr 24 poz. 83)</p>		
Additional bibliography:		
<p>1. Rajczyk J., Rajczyk M., Respondek Z., Wytyczne do przygotowania prac dyplomowych magisterskich i inżynierskich na Wydziale Budownictwa Politechniki Częstochowskiej, Częstochowa 2004</p> <p>2. Bobrowski D., Wybrane metody wnioskowania statystycznego, Wyd. Pol. Poznańskiej Poznań 1988</p> <p>3. Opoka E., Uwagi o pisaniu i redagowaniu prac dyplomowych na studiach technicznych., Wydawnictwo Politechniki Śląskiej, Gliwice, 2003</p>		
Result of average student's workload		
Activity	Time (working hours)	
1. Mandatory participation in seminars diploma	14	
2. Preparation of the presentation	20	
3. Consultation with the teacher	4	
Student's workload		
Source of workload	hours	ECTS
Total workload	38	2
Contact hours	18	1
Practical activities	20	1