

COURSE OUTLINE

(1) GENERAL

SCHOOL	UNIVERSITY OF THESSALY		
ACADEMIC UNIT	DEPARTMENT OF CIVIL ENGINEERING		
LEVEL OF STUDIES	UNDERGRADUATE		
COURSE CODE	SY0100	SEMESTER	9 th
COURSE TITLE	PAVEMENT DESING		
INDEPENDENT TEACHING ACTIVITIES <i>if credits are awarded for separate components of the course, e.g. lectures, laboratory exercises, etc. If the credits are awarded for the whole of the course, give the weekly teaching hours and the total credits</i>		WEEKLY TEACHING HOURS	CREDITS
<i>Add rows if necessary. The organisation of teaching and the teaching methods used are described in detail at (d).</i>			
COURSE TYPE <i>general background, special background, specialized general knowledge, skills development</i>	specialized general knowledge,		
PREREQUISITE COURSES:	Highway Design Building Materials Soil mechanics		
LANGUAGE OF INSTRUCTION and EXAMINATIONS:	Greek		
IS THE COURSE OFFERED TO ERASMUS STUDENTS			
COURSE WEBSITE (URL)			

(2) LEARNING OUTCOMES

Learning outcomes <i>The course learning outcomes, specific knowledge, skills and competences of an appropriate level, which the students will acquire with the successful completion of the course are described.</i> <i>Consult Appendix A</i> • Description of the level of learning outcomes for each qualifications cycle, according to the Qualifications Framework of the European Higher Education Area • Descriptors for Levels 6, 7 & 8 of the European Qualifications Framework for Lifelong Learning and Appendix B • Guidelines for writing Learning Outcomes
Understanding of Roadway Design, Construction and Repair Methodology issues. Study and Determination of Characteristics, Materials and Lifetime. Ability to assess pavement conditions, damage and other functional and structural characteristics. Measurement and equipment for Pavement Management

General Competences <i>Taking into consideration the general competences that the degree-holder must acquire (as these appear in the Diploma Supplement and appear below), at which of the following does the course aim?</i>	
<i>Search for, analysis and synthesis of data and information, with the use of the necessary technology</i> <i>Adapting to new situations</i> <i>Decision-making</i> <i>Working independently</i> <i>Team work</i> <i>Working in an international environment</i> <i>thinking Working in an interdisciplinary environment</i> <i>Production of new research ideas</i>	<i>Project planning and management</i> <i>Respect for difference and multiculturalism</i> <i>Respect for the natural environment</i> <i>Showing social, professional and ethical responsibility and sensitivity to gender issues</i> <i>Criticism and self-criticism</i> <i>Production of free, creative and inductive</i> <i>Others...</i>
Search, analyze and synthesize data and information, also using the necessary technologies Decision making Autonomous work Application at a professional level Respect for the natural environment	

(3) SYLLABUS

A/A of the week of instruction	Course contents	Hours	
		Lectures	Out-of-hours preparation
1	Soil	4	3
2	Aggregates	4	3
3	Asphalt	4	3
4	Hot-Cold Mixtures	4	4
5	Flexible pavement layers	4	3
6-8	Methods for calculating stress - deformation	12	12
9-11	Flexible pavement design methods	12	12
12	Surface/ functional and Structural	4	3
13	Damage. Treatment	4	2
14	Pavement Management System.	4	2

(4) TEACHING and LEARNING METHODS - EVALUATION

DELIVERY <i>Face-to-face, Distance learning, etc.</i>		
USE OF INFORMATION AND COMMUNICATIONS TECHNOLOGY <i>Use of ICT in teaching, laboratory education, communication with students</i>		
TEACHING METHODS <i>The manner and methods of teaching are described in detail.</i> <i>Lectures, seminars, laboratory practice, fieldwork, study and analysis of bibliography, tutorials, placements,</i>	<i>Activity</i>	<i>Semester workload</i>
	Lecture	56

<i>clinical practice, art workshop, interactive teaching, educational visits, project, essay writing, artistic creativity, etc.</i> <i>The student's study hours for each learning activity are given as well as the hours of non- directed study according to the principles of the ECTS</i>	Study	47
	Project	10
	Exams preparation	20
	Exams	2
	Course total	135
STUDENT PERFORMANCE EVALUATION Description of the evaluation procedure <i>Language of evaluation, methods of evaluation, summative or conclusive, multiple choice questionnaires, short-answer questions, open- ended questions, problem solving, written work, essay/report, oral examination, public presentation, laboratory work, clinical examination of patient, art interpretation, other</i> <i>Specifically-defined evaluation criteria are given, and if and where they are accessible to students.</i>	Written exams: 80% Mandatory Semester Project: 20% Exams Written: Theory 50% - Exercises 50%. It is mandatory to cover 50% of the grade in each part of the examination (theory: 2.5/5 - exercises: 2.5/5). As an alternative to the semester project: midterm exam in the 7th-9th week . participation in the final grade of 20%. The semester subject or its alternative is mandatory. The semester subject is delivered in the last week of courses by oral examination.	

(5) ATTACHED BIBLIOGRAPHY

-Suggested bibliography:

- Related academic journals: