

BASIC INFORMATION:

Organisational Unit	FACULTY OF TRANSPORT AND TRAFFIC ENGINEERING	
Chair	Chair for road and city traffic and transport	
Course/modul		
Code	2.05.12.005.	Road and City Traffic Infrastructure
ETCS credits	6	

COURSE TYPE:

Functional Area	Core
Level of Abstraction	Middle
Course Type - Obligation	Mandatory

COURSE REGISTRATION:

Scientific Field	2.	Technical Sciences
Scientific Area	2.05.	Civil Engineering
Narrow Scientific Field	2.05.12.	Road Infrastructure

COURSE DESCRIPTION:

Educational goals	Acquiring basic engineering knowledge on planning, designing and building and maintaining road infrastructure, including intersections and pavement structures.
Competences/ educational outcomes:	Knowledge of basic procedures and techniques of planning, designing, building and maintaining road infrastructure.
Course content	Introduction and historical development of roads. Public roads. Classification of roads by functional and social - economic and traffic - technological parameters. Basic traffic characteristics of the road (capacity and level of service, traffic data analyzes, design vehicles and vehicle trajectories). Road cross-section, traffic and clearance cross-section, traffic dimensioning and standard cross-sections. Horizontal and vertical elements of the road, bearing structure of the road. Roadside service facilities. Road protection and maintenance. Dynamic and geometric road analysis, study design documentation.

COURSE METRICS:

	Teaching activities (hours)	Individual work	TOTAL
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ETCS	Contact lessons		Exercises and trainings	Seminar and stud. papers	Pedagogical workshops	Profess. practice	Individual. and group learning	Source research	Hours of work
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6	24	12	36	24			72	12	180

ACCESS CONDITION

None

COURSE METHODOLOGY

Lectures, auditory exercises, seminar work and consultations.

TEACHING LANGUAGES

English

STUDENT WORK EVALUATION

No.	Type of Evaluation	Partial/ Final	Elective/ Mandatory	Percentage of participation
01	Participation in Lecture Interactions and Exercise Activity		Mandatory	20 %
03	Seminary work		Mandatory	20 %
04	Exam activities – final test		Mandatory	60 %

LITERATURE

No.	Author	Publication Title	Publisher	Edition Year
1.	Y.H. Huang	Pavement Analysis and Design, 2 nd Ed.	Prentice Hall	2003
2.	D.Teodorovic; M.Janjic	Transportation Engineering	Elsevier Science	2022
3.				
4.				
5.				