

**BASIC INFORMATION:**

Organisational Unit	FACULTY OF TRANSPORT AND TRAFFIC ENGINEERING	
Chair	Chair for road and city traffic and transport	
Course/modul		
Code	2.12.03.005.	<b>Basic of design in the traffic system</b>
ETCS credits	5	

**COURSE TYPE:**

Functional Area	Professional core
Level of Abstraction	Middle
Course Type - Obligation	Mandatory

**COURSE REGISTRATION:**

Scientific Field	2.	Technical Science
Scientific Area	2.12.	Traffic Engineering
Narrow Scientific Field	2.12.03.	Intelligent traffic systems and logistics

**COURSE DESCRIPTION:**

Educational goals	Acquiring of basic theoretical and practical knowledge in the field of traffic design; procedure, methods, evaluation.
Competences/ educational outcomes:	Competence for traffic design, preparation of conceptual and construction projects.
Course content	<p>Basic terms and definitions. Creation of project documentation, legal basis, standards, norms. Content and procedure of project creation. Design techniques. Substrates and digitization of substrates. Traffic network. IC matrix based on traffic counts. Distribution of traffic depending on the way of traffic management. Designing horizontal and vertical signage. Function and characteristics of urban equipment. Advertising media on public areas. Principles of traffic design. Conceptual and construction project. Roads, complex intersections, roundabouts, pedestrian zones, residential streets, central areas of the city, specific traffic zones.</p> <p>Design of light signaling systems. Designing line coordination. Calculation methods. Creation of PV diagram. Timing plans. Light signal connection plan. Designing a group coordination system.</p>

**COURSE METRICS:**

ETCS	Teaching activities (hours)					Individual work		TOTAL Hours of work
	Contact lessons	Exercises and trainings	Seminar and stud. papers	Pedagogical workshops	Profess. practice	Individual. and group learning	Source research	
5	20	10	24			84	12	150

### ACCESS CONDITION

2.09.08.001.	AutoCAD - with the basics of technical drawing
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### COURSE METHODOLOGY

Lectures, seminar work and consultations.
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### TEACHING LANGUAGES

English
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### STUDENT WORK EVALUATION

No.	Type of Evaluation	Partial/ Final	Elective/ Mandatory	Percentage of participation
01	Participation in Lecture Interactions	pre-exam obligation	Mandatory	10 %
02	Seminary work	pre-exam obligation	Mandatory	30 %
03	Exam activities – final test	final	Mandatory	60 %

### LITERATURE

No.	Author	Publication Title	Publisher	Edition Year
1.	R.S. Kumar	INTRODUCTION TO TRAFFIC ENGINEERING	Universities Press	2018
2.				