

**BASIC INFORMATION:**

Organisational Unit	FACULTY OF TRANSPORT AND TRAFFIC ENGINEERING	
Chair	Department of Traffic Safety	
Course/modul		
Code	2.03.10.01.005.	<b>Methods and analyzes in traffic safety</b>
ETCS credits	6	

**COURSE TYPE:**

Functional Area	Professional core
Level of Abstraction	Theoretical and methodological
Course Type - Obligation	Advanced

**COURSE REGISTRATION:**

Scientific Field	2.	Engineering and technology
Scientific Area	2.11.	Other engineering and technology
Narrow Scientific Field	2.11.06.	Traffic

**COURSE DESCRIPTION:**

Educational goals	The general goal of studying this subject is to acquire basic knowledge about methodology and general scientific methods, and especially about scientific methods methods used in traffic safety.
Competences/ educational outcomes:	A student who completes this course acquires the knowledge to: explain the concept and importance of scientific research methodology, explain the most important general scientific methods, understand the advantages and disadvantages of general scientific methods and their application, explain the process of traffic safety analysis and carry out traffic safety analysis.
Course content	Introduction. Method, scientific method, methodology. The scientific field of traffic safety, The procedure of scientific knowledge and general logical methods. Methods research in traffic safety. Quantitative research methods in traffic safety. Measuring the level of traffic safety. The problem of measuring and assessing the level of traffic safety, models for level assessment traffic safety. Evaluation of the level of traffic safety based on the final outcomes and based on transitory outcomes. Other methods of evaluating the security level traffic. Infrastructure security management. Road life cycle. Rating impact of the new road on traffic safety, traffic safety audit, checking traffic safety, managing black spots on roads, mapping risks, in-depth analysis of accidents with the most serious consequences, management traffic safety on the road network.The concept and

	importance of traffic and technical expertise in traffic accidents. Benchmarking in traffic safety. Methods of assessing the total socio-economic consequences of traffic accidents. Analysis of traffic safety in the area. Concept, goals and importance. Traffic safety analysis of certain group of road users. Other methods in traffic safety. Topographic analyzes in traffic safety.
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### 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	
6	54	30		24		60	12	180

### ACCESS CONDITION

2.12.01.001.	Traffic safety
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### COURSE METHODOLOGY

Lectures, auditory exercises 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 and Exercise Activity	pre-exam obligation	Mandatory	20 %
02	Seminary work	pre-exam obligation	Mandatory	30 %
02	Exam activities – final test	final	Mandatory	50 %

### LITERATURE

No.	Author	Publication Title	Publisher	Edition Year
1.	P. Lakhanpal	Traffic safety: Modeling, analysis and visualization	University of Nevada, Las Vegas	2011
2.				