BASIC INFORMATION:

Organisational Unit	FACULTY OF TRANSPORT AND TRAFFIC ENGINEERING	
Chair	Department of Organization and Economics of Traffic	
Course/modul		
Code	2.11.06.04.005.	**Traffic management methods demand**
ETCS credits	5	

COURSE TYPE:

Functional Area	Expert core
Level of Abstraction	Professional-applicative
Course Type - Obligation	Upper-middle

COURSE REGISTRATION:

Scientific Field	2.	Engineering and technology
Scientific Area	2.11.	Other engineering and technology
Narrow Scientific Field	2.11.06.	Traffic
Scientific subfield	2.11.06.04.	Organization and economy in traffic

COURSE DESCRIPTION:

Educational goals	Acquiring knowledge about the positive and negative impacts of the application of various instruments traffic policies, land use policies and technological innovations on accessibility and quality of life in cities. Acquiring knowledge in the field of creation modern strategies of traffic development in cities based on postulates sustainable development. Emphasis is placed on creating a development policy that results by reducing dependence on the use of passenger cars and increasing attractiveness modes of transportation acceptable for the environment.
Competences/ educational outcomes:	Acquiring the ability to recognize the interdependence of individual elements of the offer of the city system and traffic demand, the synergy of individual elements of the offer and the necessity of an integrated approach in defining a sustainable traffic development strategy. Acquiring knowledge about the possibilities of applying modern management technologies demand.

Course content	Positive and negative effects of traffic development. The impact of traffic on the environment - air pollution and noise. Sustainable transport system and sustainable mobility. Strategic documents of the development of the European transport system. Identification and classification traffic demand management instruments - case studies. Measures in the domain land use change. Measures in the field of infrastructure construction and management. Measures aimed at changing the habits and attitudes of traffic system users. Measures in the domain of economics or price policy. Development and evaluation of variant solutions through selection and analysis of examples of good and bad practice.

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	45		30			65	10	150

ACCESS CONDITION

None

COURSE METHODOLOGY

Lectures, 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	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.	Vukan Vučić	Urban transit operations, planning, and econonomics	John Wiley & Sons, Inc. Hoboken	2005
2.	J.de Dios Ortuzar, L.G. Willumsen	Modelling Transport, 3rd Edition	Wiley	2011
3.	D. Banister	Transport Planning	Spon press, London and N.Y.	2002