### **BASIC INFORMATION:**

Organisational Unit	FACULTY OF TRANSPORT AND TRAFFIC ENGINEERING				
Chair	Chair for motor vehicles				
Course/modul					
Code	2.11.14.013.	Vahiala anaustian and maintenance			
ETCS credits	4	Vehicle operation and maintenance			

### **COURSE TYPE:**

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

#### **COURSE REGISTRATION:**

Scientific Field 2.		Technical Sciences
Scientific Area	2.11.	Mechanical Engineering
Narrow Scientific Field	2.11.14.	Engines and Motor Vehicles

### **COURSE DESCRIPTION:**

Educational goals	Acquiring basic engineering knowledge in the field of exploitation and maintenance of vehicles.			
Competences/ educational outcomes:	Ability to work independently and as a team and manage available resources during vehicle operation and maintenance.			
Course content	Basics of vehicle operation and maintenance. Determination of vehicle exploitation conditions. Operational and technical characteristics of the vehicle. Vehicle selection based on: multi-criteria analysis, experimental technical characteristics, safety, needs and traffic conditions. The life cycle and lifetime of the vehicle. Vehicle performance and vehicle condition. The modern way of vehicle maintenance as well as the application of preventive and corrective maintenance technology. Basics of the fleet maintenance system and maintenance facilities. Arrangement of the workplace, personnel, equipment, tools and devices for the needs of motor vehicle maintenance. Information systems in the exploitation and maintenance of vehicles. Transport processes, maintenance and fleet structure with the aim of functionality, optimization and economy.			

# **COURSE METRICS:**

Teachin
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ETCS		ntact sons E	Exercises and trainings	and stud.	Pedagogical workshops	Profess. practice	Individual. and group learning	Source research	Hours of work
4	16	8	36			18	70	8	120

# **ACCESS CONDITION**

None

# COURSE METHODOLOGY

Lectures, auditory exercises 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	Author Publication Title		Edition Year
1.	A. Bonnic; D. Newbold	A Practical Approach to Motor Vehicle Engineering and Maintenance	Butterworth- Heinemann	2011
2.				