

Study program / course: Mechanical engineering				
Type and level of study: Bachelor academics studies				
Course: Equipment of motor vehicles and engines				
Lecturers: Radivoje B. Pešić, Dragoljub R. Radonjić				
Status of course: Elective, joint for modules M₃ and M₈, VI term				
Number of ECTS: 6				
Precondition: None				
The objective of course Obtain technical understanding of complex request which should be satisfied by equipment of motor vehicles and engines related to environment, performances end energy efficiency.				
The outcome of course After successfully passing course students will be able to know modern systems on vehicle (Otto and Diesel fuel systems, ignition system, etc.), and principle their functions, and basic principle of their calculation, and basic principle their diagnostics.				
Syllabus Theoretical study Modern equipment engines and vehicles. Equipment of SI Engines. Carburettors. Fuel injection systems. Ignition systems. Equipment of Diesel Engines. Electronics in Diesel engine. OBD diagnostics. Trends of development of modern equipment motor vehicles and engines.				
Practical classes <i>Laboratory exercise</i> Practical getting in sight with: fuel systems, ignition systems, and OBD diagnostics.				
Recommended reading R. Pešić, S. Petković, S. Veinović: "Motor vehicles – equipment", (in Serbian), Faculties of Mechanical Engineering from Banja Luka and Kragujevac, 2008 M. Tomić: Equipment of IC engine – (in Serbian), Mašinski fakultet Beograd, 2005				
The number of hours of active teaching:				Other classes: 1
Theory: 3	Practical classes: 1.6	Other forms of teaching: 0.4	Research study: 0	
Methods of teaching Teaching will be conducted through lectures, practical studies, visits to companies and doing two seminar papers.				
Evaluation of knowledge				
Pre-final exam obligations	points	Final exam		points
Activities during the classes:	10	Oral exam (presentation and oral defend of final assignment)		40
Practical classes:	20			
Colloquiums(s) :				
Seminar(s) :	15+15			