

Study program / course: Mechanical Engineering			
Type and level of study: Master academic studies			
Course: Designing and calculation of OTTO engines			
Lecturers: Radonjić R. Dragoljub, Radivoje B. Pešić			
Status of course: Elective joint for module M ₃ , and module M ₈ , III semester			
Number of ECTS: 6			
Precondition: None			
The objective of course Education of students in the area of OTTO engines related to: OTTO engines designing concepts, calculation methods of its basic components and auxiliary devices and basic design principles.			
The outcome of course Students ability to select constructive engine conception realization of engine components and subassemblies calculations and forming of design documentation.			
Syllabus			
Theoretical study Basics of actual engine designing conception. Selection of input data principles in the engine designing process. Methods and procedures of vital engine components and it's auxiliary devices. Engine designing procedure and forming of design documentation. Appliance of software packages in designing and calculation of OTTO engines.			
Practical Studies: Forming of general projects for OTTO and Diesel engines.			
Recommended reading			
1. Radonjić D., Pešić R.: Thermodynamic calculation of IC Engines, Faculty of Mechanical Engineering in Kragujevac, 1996. (in Serbian)			
2. Živković M., Trifunović R.: IC Engines, second part – Engines construction – second volume Construction and calculation of fundamental engine parts, Faculty of Mechanical Engineering in Belgrade, 1983. (in Serbian)			
3. Radonjić D., Pešić R.: IC Engines 1, Notebook, 2008. (in Serbian)			
The number of hours of active teaching:			Other classes: 1
Theory: 3	Practical classes: 1.4	Other forms of teaching: 0,6	
Research study: 0			
Methods of teaching Teaching, verbal exercises, laboratory exercises, student's independent engagement			
Evaluation of knowledge			
Pre-final exam obligations	points	Final exam	points
Activities during the classes:	10	written exam	-
Projects	40	verbal exam	30
Colloquiums(s) :	20	