C O U R S E G U I D E – s h o r t f o r m

Academic year 2014 – 2015

Course name[1]	Processes in ICE for motor vehicles					Course code		AR.309.DI.DS	
Course type[2]	DS	Category[3]	DI	Year of study	III	Semester	6	Number of credit points	4

Faculty	Mechanical Engineering	Number of teaching and learning hours[4]					
Field	Automotive Engineering	Total	L	T	LB	P	IS
Specialization	Automotive Vehicles	98	42		14		42

Pre-requisites from the curriculum[5]		
	Compulsory	
	Recommended	Thermodynamics and thermal installations

General objective [6]	Knowledge of basic phenomena and processes of internal combustion piston engines to optimize energy parameters and constructive; development and learning basic theoretical and practical concepts necessary dimensioning and calculations of assemblies and components organological internal combustion piston engines
Specific objectives[7]	Course content analysis takes into account thermodynamic and gas dynamics processes taking place in the internal combustion engine. These concern, in particular phenomena that present greater importance, such as filling or burning. At the same time develops in relation to the weight of course, certain functional characteristics and motor control as the main way of understanding the correlation of motor vehicle
Course description[8]	The course includes the following major sections: -Not introductory point and actual -Point parameters and owners of ICE - of ICE - Theoretical cycles of ICE - The study of real business cycle ICE with piston - Engine Features

Assessment			Schedule[9]	Percentage of the final grade (minimum grade)[10]
Continuous assessment	Class tests along the semester			%
	Activity during tutorials/laboratory works/projects/practical work		Week 1 – week 14	20%
	Assignments		Week 1 – week 14	30%
Final assessment	Final assessment form[11]	Exam	Session	50%
	Examination procedures and conditions: 1. ; tasks ; working conditions ; percent of the final grade 50% 2. ; tasks ; working conditions ; percent of the final grade 50%			

Course organizer	Professor, PhD. Eng. Edward RAKOSI	
Teaching assistants	Lecturer, PhD. Eng. Sorinel Gicu TALIF	

[1]Course name from the curriculum
[2] DF – fundamental, DID – in the field, DS – specialty, DC – complementary (from the curriculum)
[3] DI – imposed, DO –optional, DL – facultative (from the curriculum)
[4] Points 3.8, 3.5, 3.6a,b,c, 3.7 from the Course guide – extended form (L-lecture, T-tutorial, LB-laboratory works, P-project, IS-individual study)
[5] According to 4.1 – Pre-requisites - from the Course guide – extended form
[6] According to 7.1 from the Course guide – extended form
[7] According to 7.2 from the Course guide – extended form
[8] Short description of the course, according to point 8 from the Course guide – extended form
[9] For continuous assessment: weeks 1 – 14, for final assessment – colloquium: week 14, for final assessment-exam: exam period
[10] A minimum grade might be imposed for some assessment stages
[11] Exam or colloquium