

COURSE GUIDE – short form

Academic year 2014 – 2015

Course name ¹	Fuel supply systems					Course code		ISPA.311.DI.DIS	
Course type ²	DS	Category ³	DI	Year of study	III	Semester	6	Number of credit points	4

Faculty	of Mechanical Engineering				Number of teaching and learning hours ⁴				
Field	Automotive Engineering				Total	L	T	LB	P IS
Specialization	Automotive Vehicles Propulsion Systems Engineering				98	28		28	42

Pre-requisites from the curriculum ⁵	Compulsory	Basics of internal combustion engines. Calculation and construction of propulsion systems
	Recommended	Fluid mechanics and hydraulic machines

General objective ⁶	Knowledge of basic phenomena and processes on fueling internal combustion engines; development and learning basic theoretical and practical concepts necessary sizing, adjustment and correct operation of these power systems
Specific objectives ⁷	Course objectives are structured in a manner corresponding to a complete training in automotive engineering, consistent with the overall structure and objectives of the curriculum. After browsing and assimilation of theoretical and practical concepts presented in the discipline ensures future specialist in automotive cognitive skills in specific processes and phenomena power internal combustion engines and technical expertise on design, construction and organization of a range of power systems from spark ignition engines to modern diesel engines; discipline contribute to the overall development of vocational training in automotive engineering.
Course description ⁸	The course includes the following major sections: -Features of mixture formation in spark ignition engine -Premises of Power Spark-ignition engine with fuel injection -Equipment & Supplies Electronic gasoline injection spark ignition engine. -Electronic systems of gasoline direct injection spark ignition engine -Features of mixture formation compression ignition engine -Injection pumps -Diesel injection systems of "common rail" -Injectors for diesel engines -Injector pump injection system

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		Week 14	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	

¹Course 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