

# COURSE GUIDE – short form

Academic year 2014-2015

Course name <sup>1</sup>	<b>INTERNAL COMBUSTION ENGINES CONSTRUCTION AND CALCULUS</b>					Course code	AR.403.DI. DS		
Course type <sup>2</sup>	DS	Category <sup>3</sup>	DI	Year of study	4	Semester	7	Number of credit points	6

Faculty	Mechanical Engineering	Number of teaching and learning hours <sup>4</sup>						
Field	Automotive Engineering	Total	L	T	LB	P	IS	
Specialization	Road Vehicles	84	56	-	-	28	56	

Pre-requisites from the curriculum <sup>5</sup>	Compulsory	Machine Organs, Strength of Materials, I.c.e processes and characteristics
	Recommended	Materials, Technologies

General objective <sup>6</sup>	Knowledge of base construction and calculation of internal combustion engines designed to equip road vehicles
Specific objectives <sup>7</sup>	<ul style="list-style-type: none"> <li>• Knowledge of premises and design methods of internal combustion engines</li> <li>• Knowledge of possibilities and limits of train vehicle engine</li> <li>• Estimated regimes at which engine reliability is increased</li> <li>• Knowledge of factors that limit wear</li> <li>• Knowledge of periodic maintenance operations</li> </ul>
Course description <sup>8</sup>	The course contains the design premises for internal combustion engines, the constructive formula, the construction and calculus of the i.c.e, of the gases distribution system, and also the cooling and lubrication installation.

Assessment			Schedule	Percentage of the final grade (minimum grade)
Continuous assessment	Class tests along the semester		weeks 1 – 14	10%
	Activity during tutorials/laboratory works/projects/practical work		weeks 1 – 14	20%
	Assignments		-	-
Final assessment	Final assessment form		exam period	70%
	Examination procedures and conditions: 1. ; tasks ; working conditions ; percent of the final grade % 2. ; tasks ; working conditions ; percent of the final grade %			

Course organizer	Lecturer Ph.D Lidia Gaiginschi	
Teaching assistants	Ph.D student Alin Girbaci	

<sup>1</sup>Course name from the curriculum

<sup>2</sup> DF – fundamental, DID – in the field, DS – specialty, DC – complementary (from the curriculum)

<sup>3</sup> DI – imposed, DO –optional, DL – facultative (from the curriculum)

<sup>4</sup> Points 3.8, 3.5, 3.6a,b,c, 3.7 from the Course guide – extended form,

<sup>5</sup> According to 4.1 – Pre-requisites - from the Course guide – extended form

<sup>6</sup> According to 7.1 from the Course guide – extended form;

<sup>7</sup> According to 7.2 from the Course guide – extended form