

COURSE GUIDE – short form

Academic year 2014/2015

Course name ¹	Genesis and Control of Transportation System Pollution					Course code	MSTA 208		
Course type ²	DS	Category ³	DI	Year of study	2	Semester	2	Number of credit points	7

Faculty	Mechanical Engineering	Number of teaching and learning hours ⁴						
Field	Mechanical Engineering	Total	L	T	LB	P	IS	
Specialization	STA (Systemic of self –propelled transportation)	42	28		14	.		

Pre-requisites from the curriculum ⁵	Compulsory	Thermodynamic, Machine Design
	Recommended	Materials science

General objective ⁶	Presentation of the main pollutant produced by ICE due by exhaust gases, plus noise pollution, or pollution by microparticles derived from the body or tires. It emphasizes the importance of recycling systems of transport systems at the end of the operating cycle
Specific objectives ⁷	<ul style="list-style-type: none"> the composition of exhaust gases unconventional methods to reduce chemical pollution future trends in "green" self-propelled transport systems usual method of investigation the pollution degree of internal combustion engine.
Course description ⁸	European legislation regarding the pollution due to transportation system, main air pollutant due to ICE exhaust emission, usual methods to reduce pollution from Otto and Diesel engine, air pollution due to the use of unconventional fuels for ICE, noise pollution.

Assessment			Schedule ⁹	Percentage of the final grade (minimum grade) ¹⁰
Continuous assessment	Class tests along the semester		7,11	10%
	Activity during tutorials/laboratory works/projects/practical work		1-14	30%
	Assignments		14	10%
Final assessment	Final assessment form ¹¹	EX	exam period	50%
	Examination procedures and conditions: 1. ; Question from cours, ; using laboratory facilities and IT; percent of the final grade - 50% 2. ; Question from cours; using laboratory facilities and IT; percent of the final grade - 50%			

Course organizer	Prof.dr.ing.Eugen GOLGOTIU	
Teaching assistants		

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