

COURSE GUIDE – short form

Academic year 2014-2015

Course name ¹	Polymers: Properties and processing					Course code	IM411.DO.DS-2		
Course type ²	DS	Category ³	DO	Year of study	4	Semester	7	Number of credit points	4

Faculty	Mechanical Engineering	Number of teaching and learning hours ⁴						
Field	Mechanical Engineering	Total	L	T	LB	P	IS	
Specialization	Mechanical Engineering	59	28	-	28	-	3	

Pre-requisites from the curriculum ⁵	Compulsory	Materials Technology
	Recommended	Strength of Materials 1

General objective ⁶	Shaping an engineer-specific approach in analyzing and solving problems related to testing and using polymers
Specific objectives ⁷	<ul style="list-style-type: none"> Determining polymer properties; Methods and types of testing; Polymer fields of use.
Course description ⁸	Polymer structure; Polymer classification; Physical and thermodynamic properties of polymers; Technological procedures for polymer processing; Polymer testing; Fields of use.

Assessment			Schedule ⁹	Percentage of the final grade (minimum grade) ¹⁰
Continuous assessment	Class tests along the semester		Week 7	25%
	Activity during tutorials/laboratory works/projects/practical work		Weeks 1-14	25%
Final assessment	Final assessment form ¹¹	Exam	Exam period	50%
	Examination procedures and conditions: 1. Polymer properties; tasks: description; working conditions: written; percent of the final grade: 33% 2. Processing technology; tasks: description, processing methods; working conditions: written; percent of the final grade: 33% 3. Methods of polymer testing; tasks: installation description, types of testing and test samples, result processing; working conditions: written; percent of the final grade: 34%.			

Course organizer	Conf. dr. ing Sorin Corneliu Popa (Reader, EngD)	
Teaching assistants	Conf. dr. ing Sorin Corneliu Popa (Reader, EngD)	

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