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]	**Analysis of failures in engineering**					Course code		MDET.DI.DA.201	
Course type[2]	DA	Category[3]	DI	Year of study	2	Semester	3	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	DETIM	126	28	14	-	-	84

Pre-requisites from the curriculum[5]	Compulsory	-
	Recommended	Strength of materials 1, 2

General objective [6]	Learning concepts of ethics, professionalism and responsibility. Highlighting, besides the technical problems, of environmental issues, communication and procedural issues.
Specific objectives[7]	• Analysis of some historical failures, that have changed certain aspects of the profession
Course description[8]	Causes of material failures, causes of failures, forensic engineering, taking samples, investigation of failures, writing of investigation report, analysis of some historical failures

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 1-14	20%
	Assignments		Week 1-14	30%
Final assessment	Final assessment form[11]	Colloquium	Week 14th	50 %
	Examination procedures and conditions: 1. Oral presentation of a case; 2 Tasks: development of topic, followed by questions; 3. Working conditions: duration of approx. 20 min., access to the work developed during the semester; percent of the final grade 100%			

Course organizer	Prof.dr.ing. Barsanescu Paul	
Teaching assistants	Prof.dr.ing. Barsanescu Paul	

[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