C O U R S E G U I D E – s h o r t f o r m

Academic year 2018 - 2019

Course name[1]	**TRANSDUCERS AND MEASURING TECHNIQUES**					Discipline code		**3 EPI 10**	
Course type[2]	**DS**	Category[3]	**DO**	Year of study	3	Semester	**5**	Number of credit points	**4**

Faculty	Material Science and Engineering	Number of teaching and learning hours[4]					
Field	Mechanical Engineering	Total	L	T	LB	P	IS
Specialization	EPI	**42**	**28**	**-**	**14**	**-**	**-**

Pre-requisites from the curriculum[5]	Compulsory	-
	Recommended	-

General objective [6]	Knowing of the modern techniques of the automatic measurements of the hot processes parameters and of the constructive-functional principles of different types of transducers.
Specific objectives[7]	Knowing of information about the rolle and the placement of the transducers in the automatic systems; the general structure of the transducer; characteristics and general performances, constructive parts; sensitive elements and adaptors; transducers for different kinds of measurements.
Course description[8]	Sensitive elements and adapters; general principles used for the selection of the transducers. Transducers for electric variables; radiation receiver; temperature detector; pressure detector; force and moment detectors; vibration and speed detectors.

Assessment		Schedule[9]		Percentage of the final grade (minimum grade)[10]
A. Final assessment form [11] colloquium	Class tests along the semester	10 %	week **8**	80 % (minimum 5)
	Home works	10 %		
	Other activities	- %	week	
	Examination procedures and conditions: 1. Subject with open questions, working conditions oral, percent 60 %; 2. -, working conditions -, percent %; 3. -, working conditions -, percent %	60 % (minimum 5)	week 14	
B. Seminar	Activity during seminar			- % (minimum 5)
C. Laboratory	Acttvity during laboratory			20 % (minimum 5)
D. Project	Activity during project			- % (minimum 5)
Course organizer	**Lecturer.Phd.Eng.Elena CHIRILA**			
Teaching assistants	**As.Phd.Eng. Dumitru Doru BURDUHOS NERGIS**			

[1]Course name from the curriculum
[2] DF – fundamental, DD – 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