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

Academic year 2024-2025

Course name[1]	**DATA ACQUISITION AND PROCESSING IN EXPERIMENTAL ANALYSIS**					Course code		MATAE IA 108	
Course type[2]	DID	Category[3]	DS	Year of study	II	Semester	2	Number of credit points	3

Faculty	MATERIALS SCIENCE AND ENGINEERING	Number of teaching and learning hours[4]					
Field	MATERIALS ENGINEERING	Total	L	T	LB	P	IS
Specialization	MATAE	75	14	-	14	-	47

Pre-requisites from the curriculum[5]	Compulsory	Physics, Electronics, Material science, Automation
	Recommended	Math

General objective [6]	Transmit the theoretical and practical knowledge needed to acquire modern techniques to track physical phenomena or technological parameters
Specific objectives[7]	Provide sufficient theoretical and practical knowledge for the use of specific data acquisition equipment and / or the choice of the electronic components required for a computerized data acquisition system
Course description[8]	Transducer, Converters, Acquisition boards

Assesment			Sche-dule[9]	Percentage in the final grade(minimum grade)[10]
A. Final assessment form[11]: Exam	Class tests along the semester	20%	6th, 12th week	60% (minimum 5)
	Home works	%		
	Other activities	%		
	Examination procedures and conditions: 1 Treating a two subjects theoretic p_1 = 35%; p_2 = 35%; 2. Solving a practical problem P = 30%.	80% (mini-mum 5)	Exam period	
B. Seminar	Activity during seminar			% (minimum 5)
C. Laboratory	Acttvity during laboratory			40% (minimum 5)
D. Project	Activityduringproject			% (minimum 5)

Course organizer	Professor Habil. PhD. Eng. Stefan Lucian TOMA	
Teaching assistants	Professor Habil. PhD. Eng. Stefan Lucian TOMA	

[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