## COURSE GUIDE – short form

Academic year 2021-2022

Course name <sup>1</sup>	DATA ACQUISITION AND PROCESSING				Course code			MATAE IA 108		
Course type <sup>2</sup>	DID	Category <sup>3</sup>	DS	Year of study	Π	Semester	er 2 Number of credit points		mber of credit ooints	3

Faculty	MATERIALS SCIENCE AND ENGINEERING	Number of teaching and learning hours <sup>4</sup>					
Field	INDUSTRIAL ENGINEERING	Total	Г	Т	LB	Р	IS
Specialization	MATAE	125	14	-	14	-	97

Pre-requisites from the curriculum <sup>5</sup>	Compulsory	Physics, Electronics, Material science, Automation
	Recommended	Math

General objective <sup>6</sup>	Transmit the theoretical and practical knowledge needed to acquire modern techniques to track physical phenomena or technological parameters					
Specific objectives <sup>7</sup>	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 <sup>8</sup>	Transducer, Converters, Acquisition boards					

	Sche- dule <sup>9</sup>	Percentage in the final grade(minimum grade) <sup>10</sup>			
A. Final	Class tests along the semester	20%	6 <sup>th</sup> , 12 <sup>th</sup> week		
assessment form <sup>11</sup> :	Home works	%		70% (minimum	
	Other activities	%		5)	
Exam	<ul> <li>Examination procedures and conditions:</li> <li>1 Treating a two subjects theoretic p<sub>1</sub> = 35%; p<sub>2</sub></li> <li>= 35%;</li> <li>2. Solving a practical problem P = 30%.</li> </ul>	80% (mini- mum 5)		5)	
B. Seminar	Activity during seminar	% (minimum 5)			
C. Laboratory	30% (minimum 5)				
D. Project Activityduringproject				% (minimum 5)	

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

<sup>&</sup>lt;sup>1</sup>Course name from the curriculum

 $<sup>^{2}</sup>$  DF – fundamental, DID – in the field, DS – specialty, DC – complementary (from the curriculum)

<sup>&</sup>lt;sup>3</sup> DI – imposed, DO –optional, DL – facultative (from the curriculum)

<sup>5</sup> According to 4.1 – Pre-requisites - from the Course guide – extended form

<sup>6</sup> According to 7.1 from the Course guide – extended form

<sup>7</sup> According to 7.2 from the Course guide – extended form

<sup>8</sup> 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

<sup>10</sup>A minimum grade might be imposed for some assessment stages

<sup>11</sup>Exam or colloquium

<sup>&</sup>lt;sup>4</sup> 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)