

# COURSE GUIDE – short form

Academic year 2024-2025

Course name <sup>1</sup>	ADVANCED WELDING SYSTEMS AND TECHNIQUES (2)					Course code	SITM IA 114		
Course type <sup>2</sup>	DS	Category <sup>3</sup>	DO	Year of study	1	Semester	2	Number of credit points	4

Faculty	Materials Science and Engineering				Number of teaching and learning hours <sup>4</sup>					
Field	Mechanical Engineering				Total	L	T	LB	P	IS
Specialization	Industrial Systems for Modern Technologies				100	14	-	14	-	72

Pre-requisites from the curriculum <sup>5</sup>	Compulsory	Not the case
	Recommended	Not the case

General objective <sup>6</sup>	Broadening the knowledge specific to the use and design of hot processing equipment and technologies.
Specific objectives <sup>7</sup>	The skills related to the specific knowledge of the use and design of welding equipment and technologies are completed and developed..
Course description <sup>8</sup>	<i>Chapter 3 - Spot welding equipment</i> <i>Chapter 4 - In-line welding equipment</i> <i>Chapter 5 - MIG/MAG welding equipment</i> <i>Chapter 6 - Laser beam processing equipment</i>

Assesment			Schedule <sup>9</sup>	Percentage in the final grade (minimum grade) <sup>10</sup>
A. Final assessment form <sup>11</sup> :	Class tests along the semester	0%		50% (minimum 5)
	Home works	0%		
	Other activities	0%		
	Examination procedures and conditions: Probe 1: closed question; oral examination; 50% Probe 2: closed question; oral examination; 50%.	100% (minimum 5)	Exam period	
C. Laboratory	Activity during laboratory – open and closed questions, demonstration			50% (minimum 5)

Course organizer	Assoc. Prof. Ph.D. Eng. Gheorghe BĂDĂRĂU
Teaching assistants	Assoc. Prof. Ph.D. Eng. Gheorghe BĂDĂRĂU

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

<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)

<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

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<sup>9</sup> 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