

COURSE GUIDE – short form

Academic year 2024 - 2025

Course name ¹	Maintenance and Diagnostics of Industrial Systems					Discipline code		SITM IA 109DS	
Course type ²	DS	Category ³	DI	Year of study	1	Semester	2	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	Industrial systems for Modern Technologies					100	28		14		58

Pre-requisites from the curriculum ⁵	Compulsory	-
	Recommended	-

General objective ⁶	Students who successfully complete the coursework and laboratory activities in the course <i>Maintenance and Diagnosis of Industrial Systems</i> will gain knowledge of current trends in industrial systems diagnostics and will develop a deep understanding of the principles and methods used in the maintenance of these systems.
Specific objectives ⁷	Students must acquire a sufficiently solid foundation in the field of diagnostics and maintenance of industrial systems to identify optimal solutions in their professional practice.
Course description ⁸	The content covered focuses on the fundamentals of maintenance of industrial systems, monitoring systems and equipment, and challenges in the diagnostics of industrial systems.

Assessment		Schedule ⁹		Percentage of the final grade (minimum grade) ¹⁰
A. Final assessment form ¹¹ Exam	Final examination	100 %	Exam period	80 % (minimum 5)
B. Seminar	Activity during seminar			% (minimum 5)
C. Laboratory	Activity during laboratory			20 % (minimum 5)
D. Project	Activity during project			% (minimum 5)
Course organizer	Lecturer Ph.D. eng. Viorel GRANCEA			
Teaching assistants	Lecturer Ph.D. eng. Viorel GRANCEA			

¹Course 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

