

COURSE GUIDE – short form

Academic year 2024-2025

Course name ¹	Management of the prevention and protection activity in emergency situations					Course code	ISSMIA201		
Course type ²	DS	Category ³	DI	Year of study	2	Semester	3	No. of credit points	5

Faculty	Materials Science and Engineering	Number of teaching and learning hours ⁴					
Field	Industrial Engineering	Total	L	T	LB	P	IS
Specialization	Occupational Health and Safety Engineering	125	28	14			83

Pre-requisites from the curriculum ⁵	Compulsory	
	Recommended	Emergency Response, Fire Safety Engineering

General objective ⁶	Knowledge of the main factors influencing emergency situations, especially the fire safety of buildings and installations, establishing through engineering methods the necessary measures to ensure the limitation of the occurrence and propagation of fire and smoke inside the building and in the vicinity, the possibility of users to evacuate safely and the safety of the intervention forces.
Specific objectives ⁷	Knowledge of the mechanisms for preventing emergency situations generated by emergency situations (fire safety and civil protection) and of the factors that lead to the reduction of fire safety of buildings and installations. Acquiring and applying active and passive protection measures to achieve the essential fire safety requirement.
Course description ⁸	Legislative aspects. Elements of analysis in fire safety management. Elements of analysis in the management of civil protection situations. Management of the organizational activity in the line of prevention of emergency situations. The theory of risk management of emergency situations. Methods of managing fire prevention and protection activity. Management of operational fire protection measures. Industrial facilities processing SEVESO-type hazardous substances. Management of emergency situations generated by natural risks. Management of emergency situations generated by biological and radiological risks. Management of emergency situations generated by major technological risks with an impact on the environment. Fire propagation and heat transfer modes. Mathematical simulation of the development of emergency situations. Perspectives for optimizing emergency management.

Assesment			Schedule ⁹	Percentage of the final grade (minimum grade) ¹⁰
A. Final assessment form ¹¹ :	Class tests along the semester	%		60% (minimum 5)
	Home works	%		
	Other activities	%		
	Examination procedures and conditions: Probe 1: Oral exam with topics from the theoretical part of the discipline.	100% (minimum grade 5)	Sesion	
B. Seminar	Activity during seminar			40% (minimum 5)
C. Laboratory	Acttivity during laboratory			% (minimum 5)
D. Project	Activity during project			% (minimum 5)

Course organizer	dr. ing. ROȘU Dragoș	
Teaching assistants	dr. ing. ROȘU Dragoș	

¹Course name from the curriculum

²DF – fundamental, DID – in the field, DS – specialty, DC – complementary (from the curriculum)

³DI – imposed, DO – optional, DL – facultative (from the curriculum)

⁴Points 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)

⁵According to 4.1 – Pre-requisites - from the Course guide – extended form

⁶According to 7.1 from the Course guide – extended form

⁷According to 7.2 from the Course guide – extended form

⁸Short description of the course, according to point 8 from the Course guide – extended form

⁹For 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