

COURSE GUIDE – short form

Academic year 2017-2018

Course name	INDUSTRIAL VENTILATION					Course code	3SI04DS		
Course type	DID	Category	DI	Year of study	3	Semester	5	Number of credit points	5

Faculty	Materials Science and Engineering	Number of teaching and learning hours					
Field	Industrial Engineering	Total	L	T	LB	P	IS
Specialization	Industrial safety engineering	56	28		28		

Pre-requisites from the curriculum	Compulsory	
	Recommended	

General objective	Choosing, designing, technical support and work systems exploitation in safety and health conditions in terms of industrial ventilation and workplace microclimate.
Specific objectives	The discipline "Industrial Ventilation" allows the student to acquire skills on: - understanding how to limit occupational exposure and occupational accidents and how to ensure the safety of industrial equipment working; - analysis of ventilation systems in relation with technological process; - ability to anticipate dangerous and/or hurtful situations in their work place; - ability to propose and implement technical and organizational solutions for achieving industrial security.
Course description	Microclimate of industrial premises. Natural ventilation in industrial plants. Local ventilation. Fog elimination equipment. Humidifiers. Ventilation airflow. Equipment failure ventilation. Cyclones. Heat recovery ventilation systems. Garage ventilation. Smoke elimination installations. Particles determination at workplace.

Assessment		Schedule	Percentage of the final grade (minimum grade)
Continuous assessment	Class tests along the semester		-
	Activity during tutorials/laboratory works/projects/practical work		50%
	Assignments		-
Final assessment	Final assessment form	Examination	50%
	Examination procedures and conditions: 1. Category: theoretical; subject with closed questions; conditions: oral; weight in final grade: 50%; 2. Category: theoretical; subject with closed questions; conditions: oral; weight in final grade: 50%.		

Course organizer	Associate professor PH.D. eng. Ioan RUSU
Teaching assistants	Assist. PH.S. eng. Constantin MIREA