COURSE GUIDE-short form

Academic year 2024-2025

Course name ¹		Fluid Mechanics				Course code			le 2.	2.ISI.02.DD		
Course type ²	DID	Category ³	DI	Year of stu	udy	2	Sem	ester	3		ber of points	3
Faculty	Mater	Material Science and Engineering			Number of teaching and learning hours ⁴							
Field	Indust	Industrial Engineering				Tota	al	L	Т	LB	Р	IS
Specialization	Safety	Safety industrial engineering				75		14		14	-	47

Pre-requisites from the	Compulsory	Physics, Mathematics
	Recommended	-

General objective ⁶	Knowledge of methods for the characterization of fluid motion, the mechanical interaction between the fluid and the external systems and the links between them.
Specific objectives ⁷	The aim of course is the qualitative and quantitative study of fluid movement for the "control" current flows encountered in practice: 1. Knowing the movement of fluid characterization processes, the mechanical interaction between the fluid and external systems and links between them. 2. Direct the laws of fluid mechanics applications for the preparation in the engineer specialty of <i>Safety industrial engineering</i> . 3. Addressing general fluid motion and rest which can be solved by the methods of fluid mechanics (absolute and relative rest, fluid action to stand on solid walls, floating bodies, rolling movements). 4. Detailed study of miscarriages and local distribution.
Course description ⁸	1. The physical properties of the fluid (2 hours); 2. General equations of fluid mechanics (4 hours); 3. Movement of the effluent (2 hours); 4. Calculation of the pipes (2 hours); 5. Problems solved by methods specific specialty fluid mechanics of <i>Safety industrial engineering</i> (4 hours).

	Assessment		Sched ule ⁹	Percentage in the final grade(minimum grade) ¹⁰
A. Final assessment form ¹¹ : Colloquium	Class tests along the semester	%		
	Home works	%		
	Other activities	%		
	 Examination procedures and conditions: 1. The first subject: tasks: case solving; working conditions T: weight 50%; 2. Subject 2: Tasks: case solving; working conditions T: weight 25%; 3. Subject 3: Tasks: case solving; working conditions T: weight 25%. 	100 %	Week 13÷14	50 % (minimum 5)
C. Laboratory	50 %(minimum 5)			

Course organizer	Lecturer PhD. Eng. Eugen-Vlad NĂSTASE	
Teaching assistants	Lecturer PhD. Eng. Eugen-Vlad NĂSTASE	

- ¹Course name from the curriculum ² DF fundamental, DID 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) ⁵According to 4.1 Pre-requisites from the Course guide extended form ⁶ According to 7.2 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 ¹⁰A minimum grade might be imposed for some assessment stages ¹¹Exam or colloquium