COURSE GUIDE - short form

Academic year 2017-2018

Course name ¹	FLUID POWER SYSTEMS				Course code		2EPI-11-DID		
Course type ²	DID	Category ³	DI	Year of study	II	Semester	4	Number of credit points	4

Faculty	Materials Science and Engineering	Number of teaching and learning hours ⁴		ning			
Field	Field Mechanical Engineering		L	Τ	LB	Р	IS
Specialization	Industrial Processes Equipment	56	14	-	14	-	28

Pre-requisites from the curriculum ⁵	Compulsory	-
	Recommended	

General objective ⁶	Ability to use the main knowledge of this course, especially usual analytical methods and algorithms for design and maintenance of medium complexity fluid power systems.
Specific objectives ⁷	 Knowledge, understanding and ability to use: Graphic symbols used for fluid power systems; Construction and functioning of fluid power equipment; Design rules for a medium complexity equipment; Procedure and testing methods for fluid power equipment.
Course description ⁸	Theoretical bases for fluid power systems. Fluid properties. Displacement pumps. Displacement motors. Pressure valves. Flow control valves. Directional control valves. Check valves. Auxiliary equipment. Pneumatic equipments. Procedure and testing methods for fluid power equipment

	Assessment		Schedule ⁹	Percentage of the final grade (minimum grade) ¹⁰
Class tests along the semester			-	-
Continuous assessment	, , ,		Weeks 1-14	40 %
	Assignments: 1 written assign	nment	Week 12	10 %
	Final assessment form ¹¹	Exam	Exam period	
Final assessment	Examination procedures and conditions: Oral examination. Two subjects; 30 minutes for preparing answers; verbal presentation. Final mark is mean of the two marks.			50 %

Course organizer	Associate Professor PhD Eng. Irina TIŢA	
Teaching assistant	Assist. 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, Pproject, IS-individual study)
- 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