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None						
Introduction to systems for hydraulic and pneumatic convey of fluids. Developing mathematical						
models for hydraulic calculation of the systems and their components. Introduction to systems						
for hydro power. Developing mathematical models for hydraulic calculation of the systems and						
their components.						
Course content:						
Physical properties of fluids, water, oil, gas and mixtures of fluid - solid particles.						
Hydraulic and Pneumatic Conveying: calculation, devices and equipment,						
Hydro power systems: pump stations and hydro power plants: calculation, devices and equipment						
Study methods: lectures, lab, project assignments, individual assignments, self-study.						
6 ECTS x 30 = 180 hours						
30 + 15 + 40 + 30 + 65 = 180 hours						
30 hours						
15 hours						
40 hours						
30 hours						
30 Hours						
65 hours						
40						
50						
10						
(five) (F)						
6 (six) (E)						
even) (D)						
eight) (C)						
nine) (B)						
10 (ten) (A)						

20.	Language			English		
21.	Course evaluation			Student questionnaire		
22.	Textboo	oks		,		
	22.1	Instr	uction materials			
		No.	Author	Title	Publisher	Year
		1.	Speight J.G.	Natural Gas – A Basic Handbook	Gulf Publishing Company, Houston	2007
		2.	Oneil A. Williams	Pneumatic and Hydraulic Conveying of Solids	CRC Press	1983
		3.	G.I.Krivcenko	Hydraulic machines-turbiner and pumps	Lewis publisher	1994
	22.2	2.2 Supplemental Instruction Materials				
		No.	Author	Title	Publisher	Year
		1.	Wang X., Economides M.	Advanced Natural Gas Engineering	Gulf Publishing Company, Houston, Texas	2009
		2.	David Mills,	Pneumatic Conveying Design Guide	ELSEVIER	2004
		3.	Frank Yeaple	Fluid Power Design Handbook	CRC Press	1995