Add. 3			Course program for the first, second and third level (cycle) of studies									
1.	Course	e title	e			Technical gases and compressor stations						
2.	Code				329							
3.	Study group(s)					 TI						
4.	The organizer of the study program					Faculty of Mechanical Engineering - Skopje,						
	(unit, institute, department)					Ss. Cyril and Methodius University in Skopje						
5.	Level (first, second, third)					First						
6.	Academic year / semester				summer 7. Number			of ECTS	6			
8.	Instructor					Prof. Milan Šarevski Ph.D						
9.	Prereguisites				none							
10.	Course objectives (competences):											
	Introduction and study of: technical gases, thermodynamic properties, production, transportation, storage, usage, application; thermal and flow calculations; gas systems;											
exploitation.												
	stations	essor st	d sto	rage; des	sign of comp	ressor						
11. Course content:												
	Technical gases: production, application, physical and chemical characteristics, thermodynamic calculations: state, change of state, compression, expansion, separation of gas mixtures, cryogenic and adsorption systems for liquefaction and separation; storage and transport; gas											
	system	is, gas r	networks, systems for	meas	urer	ment and reductio	on.					
	Compr	essor st	ations – piston compr	essor	, tur	bocompressor ar	nd sc	rew com	pressor; syst	ems for		
	cooling	, arying	, filtration and storage	; aesi	gn c	of compressor sta	ation,	exploitat	lion and			
12	Maintenance.											
13	Total hours 6 FCTS x 30 hours = 180 hours								laanig			
14.	Hours allocation per activity:					30 + 30 +10 +10 +100 = 180 hours						
15.	Lecture	es/Lab		15.1		Lectures			3	0 hours		
					Lab (student work)			30 hours				
16.	Project	Work/A	ork/Assignments		6.1. Project assignments			30 hou				
					2. Individual assignments		S	30 hours				
				16.3	3. Self-study				60 hours			
17.	Points/Marks:											
	17.1. Tests								7	0 points		
	17.2. Projects								20 points			
	17.3. Attendance								10 points			
18.	Grading scale					Und	der 50	0	5 (	five) (F)		
						51 - 60 points		6	6 (six) (E)			
				-		61 - 70	point	s	7 (sev	ven) (D)		
						71 - 80 points		s	8 (eight) (C)			
						81 - 90 points		S	9 (hine) (B)			
19.	Prereg	uisites f	or taking the final exa	m	None							
20.	Langua	age of Ir	struction		Macedonian							
21.	21. Course evaluation					Student questionnaire						
22.												
	22.1	Instruc	Instruction materials									
	<u> </u>	No.	Author			Title		P	ublisher	Year		

		1.	M.Sharevski	Technical gases and compressor plants	UKIM					
		2.	I.Cerepnalkovski	Compressors	UKIM	1994				
		3.	M.Sharevski	Design of piston, scroll, rotary and turbo compressors and plants	UKIM					
		Supplemental Instruction Materials								
	22.2.	No.	Author	Title	Publisher	Year				
		1.		Gas Engineers Handbook	Industrial press	1994				
		2.								
		3.								