

Course syllabus for First cycle studies					
1.	Course title	Industrial management			
2.	Code	MDE7E4			
3.	Study Program	Metallurgical Digital Engineering			
4.	Study program organizer (unit,institute, department, division)	Faculty of Technology and Metallurgy, University “Ss. Cyril and Methodius” in Skopje			
5.	Degree (first, second, third cycle)	First			
6.	Academic year / semester	4 year 7 semester	7.	Number of ECTS	6
8.	Instructors	PhD. Dejan Dimitrovski, full professor			
9.	Prerequisites for course enrollment	Principles of management			
10.	Objectives of the course syllabus (competences): To obtain the necessary knowledge in engineering economics, operational research and project development in the chemical industry and metallurgy Acquired skills (competences):				
11.	Content of the course: 1. Method of managing activities in companies with special emphasis on the organization of production and research and development. Horizontal and vertical organizational chart. 2. Method of managing the production sector. 3. Method of managing the research and development sector. 4. Method of managing the engineering department. 5. Method of managing the marketing department. 6. Method of managing the sales and procurement departments. 7. Functions of project financing. 8. Method of managing the construction of a plant. 9. Dominant models of the organization of leadership and management in the USA, EU, Japan and other countries in the world. 10. Method of managing international companies and projects. 11. Role and place of the engineer and engineer technologist and metallurgist in the management and management of individual activities in the chemical industry and metallurgy. 12. Engineering economics. Meaning of assets and liabilities as two balance sheet items. Property rights. Spent funds. 13. Investments as a factor of long-term development of companies and society as a whole. 14. Taxes and tax incentives. 15. Profit and obligations from realized profit. 16. Cash flow. 17. Market research.				
12.	Study methods: lectures and exercises, consultations, project (homework, seminar) assignment, home study (exam preparation)				
13.	Total available time		105		
14.	Allocation of available time				
15.	Teaching activities	15.1.	Lectures-theoretical teaching	30	
		15.2.	Exercises (practice classes, teamwork)	30	
16.	Other types of activities	16.1.	Projects, seminar papers	10	
		16.2.			

		16.3.	Homework and self-learning	35		
17.	Grading system					
	17.1.	Test		80		
	17.2.	proect		10		
	17.3.	ucestvo		10		
18.	Grading criteria (points/grade)	Up to 61 points		5 (five) (F)		
		From 61 to 69 points		6 (six) (E)		
		From 70 to 79 points		7 (seven) (D)		
		from 80 to 89 points		8 (eight) (S)		
		From 90 to 95 points		9 (nine) (B)		
		from 95 to 100 points		10 (ten) (A)		
19.	Prerequisites for taking the final exam		11 points from 17.1 – 17.3			
20.	Language in which lectures are conducted		English			
21.	Method for monitoring the quality of lectures		anketa			
22.	LITERATURE					
	22.1.	Compulsory literature				
		No.	Author	Title	Publisher	Year
		1.	К. Николовски, Д. Димитровски	Индустријски и менаџмент	ТМФ-Скопје	2010
		2.				
		3.				
	22.2.	Additional literature				
		No.	Author	Title	Publisher	Year
		1.	H. McHenry, J. L. Harris	Project Planning and Management	Jones & Bartlett Publishers,	2010
		2.	P. F. Rad	Project Estimating and Cost Management	Concepts Inc	2002
3.						