No. 32

Course syllabus for First cycle studies					
1.	**Course title**	Industrial management			
2.	**Code**	CDE6E23			
3.	**Study Program**	Clothing design and engineering			
4.	**Study program organizer (unit, institute, department, division)**	Department of chemical and control engineering,TMF, UKIM, Skopje			
5.	**Degree (first, second, third cycle)**	First			
6.	**Academic year / semester**	3 year 6 semester	7.	**Number of ECTS**	5
8.	**Instructors**	Prof. Dr. Dejan Dimitrovski			
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**	90			
14.	**Allocation of available time**				

15.	**Teaching activities**	15.1.	Lectures-theoretical teaching	30
		15.2.	Exercises (practice classes, teamwork)	15
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.	Project	10
	17.3.	Participation	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**	Survey

22. **LITERATURE**

22.1. Compulsory literature

No.	Author	Title	Publisher	Year
1.	H. McHenry, J. L. Harris	Project Planning and Management	Jones & Bartlett Publishers,	2010
2.				
3.				

22.2. Additional literature

No.	Author	Title	Publisher	Year
1.	P. F. Rad	Project Estimating and Cost Management	Concepts Inc	2002
2.				
3.				