

No. 39

Course syllabus for First cycle studies					
1.	Course title	Surfactants			
2.	Code	CDE7E12			
3.	Study Program	Clothing Design and Engineering			
4.	Study program organizer (unit, institute, department, division)	Faculty of Technology and Metallurgy, Institute of Textile Engineering			
5.	Degree (first, second, third cycle)	First			
6.	Academic year / semester	2 year 3 semester	7.	Number of ECTS	5
8.	Instructors	Prof. Dr. Igor Jordanov			
9.	Prerequisites for course enrollment	Pre-treatment and finishing of textiles and clothing (verified)			
10.	Objectives of the course syllabus (competences): Introduction to surfactants and their application. Acquired skills (competences):				
11.	Content of the course: Chemical structure of surfactants, classification, adsorption properties, micelle formation and critical micellar concentration, solubilization, soaking, foaming, emulsification, washing and application in the textile industry as auxiliary agents in the production of chemical fibers, preparation, dyeing and finishing of textile products.				
12.	Study methods: lectures and consultations, laboratory exercises, homework, 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 (laboratory, numerical, seminars, teamwork)		15
16.	Other types of activities	16.1.	Projects		
		16.2.	Independent tasks		
		16.3.	Homework and self-learning		45

17.	Grading system							
17.1.	Test				80 points			
17.2.	Successfully realized laboratory/auditory exercises				10 points			
17.3.	Individual work/homework				5 points			
17.4	Participation				5 points			
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 minimum from 17.2 – 17.4					
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			
		1.	M. Rosen	Surfactants and Interfacial Phenomena	John Wiley & Sons			
		2.						
		3.						
	22.2.	Additional literature						
		No.	Author	Title	Publisher			
		1.	Drew Myers	Surfactant Science and Technology	John Wiley & Sons, Inc.			
		2.						
		3.						