

No. 18

Course syllabus for Second cycle studies					
1.	Course title	Nonwoven Textile			
2.	Code	CDE4E11			
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 Cycle			
6.	Academic year / semester	2th year 4th semester	7.	Number of ECTS	5
8.	Instructors	Dr. Emilija Toshikj, Associate Professor			
9.	Prerequisites for course enrollment				
10.	<b>Objectives of the course syllabus (competences):</b> The aim of the course is for students to acquire knowledge about the scientific achievements in the field of nonwoven textiles and to develop abilities for their practical application in production.  <b>Acquired skills (competences):</b> Students are equipped to know nonwoven materials depending on their development, classification, and application, and the raw materials for their production, and to understand the characteristics of felt and the technological procedures for felt production. Students are capable of understanding the strengthening of felt and additional finishing processes. Students will acquire knowledge about the classification and application of nonwoven materials, the raw materials for production, and the technological procedures for producing felt.				
11.	<b>Content of the course:</b> Development, division, and application of nonwoven materials. Raw materials for production. Characteristics of the felt. Technological procedures for the production of felt (mechanical, aerodynamic, etc.). Strengthening of the felt (mechanical, chemical). Additional processing.				
12.	<b>Study methods:</b> Method of oral presentation, method of programmed instruction, method of independent work with a textbook, method of problem-based teaching (problem situation, problem, problem task, and problem question, conditions for implementing problem-based teaching and levels of application of the problem-based teaching method), method of using technical aids (need and opportunities for using computers and dialogic educational methods), selection and combination of teaching methods.				
13.	Total available time	120			
14.	Allocation of available time				
15.	Teaching activities	15.1.	Lectures-theoretical instruction	30	
		15.2.	Exercises (laboratory,	15	

			auditorium), seminars, team work			
16.	Other types of activities	16.1.	Project tasks			
		16.2.	Independent tasks		25	
		16.3.	Home learning		50	
17.	Grading system					
	17.1.	Tests			80 points	
	17.2.	Successfully completed laboratory/auditorium exercises			12 points	
	17.3.	Activity and participation			4 points	
	17.4.	Homework and/or seminar work			4 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		12 points from activity 17.2. and a minimum of 4 points from activities from 17.3 to 17.4.			
20.	Language in which lectures are conducted		English			
21.	Method for monitoring the quality of lectures		Anonymous Student Survey			
22.	LITERATURE					
	22.1.	Compulsory literature				
		No.	Author	Title	Publisher	Year
		1.	M. Prendzova	Nonwoven Textile, internal script	Faculty of Technology and Metallurgy	2007
		2.	W. Albrecht, H. Fuchs, W. Kittelmann	Nonwoven Fabrics	WILEY VCH, Verlag GmbH&Co. KgaA, Weinheim	2001
		3.				
	22.2.	Additional literature				
		No.	Author	Title	Publisher	Year
		1.	D. Hoffer	Netkane Tekstilije	SITTH, Zagreb	1976
		2.	S. Šunka, V. Petrović	Technology of Nonwoven Textiles	Technical Faculty, Zrenjanin	1996
		3.				