

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
8.	Instructors	Dr. Emilija Toshikj, Associate Professor		
9.	Prerequisites for course enrollment			
10.	Objectives of the course syllabus (competences): 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.			
	Acquired skills (competences): 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.	Content of the course: 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.	Study methods: 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
		1.	M. Prendzova	Nonwoven Textile, internal script
		2.	W. Albrecht, H. Fuchs, W. Kittelmann	Nonwoven Fabrics
		3.		
	22.2.	Additional literature		
		No.	Author	Title
		1.	D. Hoffer	Netkane Tekstilije
		2.	S. Šunka, V. Petrović	Technology of Nonwoven Textiles
		3.		