

No. 33

Course syllabus for First cycle studies					
1.	Course title	Circular economy			
2.	Code	CDE6E24			
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				
10.	Objectives of the course syllabus (competences): To acquire essential knowledge of the circular economy concept, including key terms and definitions, through practical examples of material and energy flows in cyclical processes.				
11.	Content of the course: 1. History of the circular economy. 2. Introduction to the circular economy. 3. Definition and general terms of the circular economy. 3. Objectives of the circular economy. 4. Indicators of the circular economy. 5. Sustainable development management. 6. Cyclical movement of materials. 7. Cyclical movement of energy. 8. Examples of the concept of the circular economy.				
12.	Study methods: lectures and consultations, laboratory exercises, homework, home study (exam preparation)				
13.	Total available time	150			
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		25
		16.2.	Independent tasks		
		16.3.	Homework and self-learning		50
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.	Paul Ekins, Teresa Domenech, Paul Drummond, Raimund Bleischwitz, Nick Hughes, Lorenzo Lotti	The Circular Economy: What, Why, How and Where	UCL Institute for Sustainable Resources, University College London					
	2.	Lerwen Liu, Seeram Ramakrishna	An Introduction to Circular Economy	Springer Nature Singapore Pte Ltd.					
	3.								
22.2.	Additional literature								
	No.	Author	Title	Publisher					
	1.	Jiansu Mao, Chunhui Li, Yuansheng Pei, Linyu Xu	Circular Economy and Sustainable Development Enterprises	Springer Nature Singapore Pte Ltd.					
	2.								
	3.								