Add	. 3	Course progra	m for t	he first, second an	d thi	rd degre	e of studio	es
1.	Course	title	E	Eco-Design				
2.	Code			143				
3.	Study (group(s)	I	ndustrial design (IN	D)			
4.	The organizer of the study program (unit, institute, department)			Faculty of Mechanical Engineering - Skopje, Ss. Cyril and Methodius University in Skopje				
5.		first, second, third)		First				
6.		mic year / semester		2/IV 7. Number of ECTS credits			6	
8.	Instruc	tor	F	Prof. Dr. Tatjana Kandikjan				
9.	Prerequisites 1. Design Process 2.							
10.	Course objectives (competences): Study of the methods and tools for designing sustainable products. Eco-design guidelines and solutions.							
11.	Course content: Environmental footprint of the phases of the product life-cycle. Design for the environment. Life-cycle assessment. Materials and embodied energy. Recovery opportunities and strategies. Recycling processes. EU waste and eco-directives and outlook. Eco-labeling. Eco-design guidelines. New approaches in eco-design. Analysis of eco-design solutions in electronics, energy efficiency, lighting, consumer products, furniture and recreation equipment.							
12.	Study methods: interactive lectures, auditory practice and/or laboratory practice, self running and/or team work projects, self learning							
13.	Total h			180 hours				
14.	Hours	allocation per activity:		28+28+80+44	=180			
15.	Lecture		15.1.	Teaching lectures			28 hours	
			15.2.			am		28 hours
16.	Project	, ,		. Project assignments			80 hours	
				. Selfrunning assi	ing assignments			
	16		16.3.	. Home studying			44 hours	
17.	Points/							
	17.1.	Tests						50 points
	17.2.	Projects				40 points		
	17.3.	Attendance				10 points		
18.	Gradin	g scale		Under 50			;	5 (five) (F)
			Ī	51 - 60				6 (six) (E)
				61 - 70			7 (9	seven) (D)
				71 - 80 points			8 (eight) (C)	
							(nine) (B)	
				91 - 100 points 10 (ten) (A)				
19.	Prereq	uisites for taking the final ex	am	All project assignments completed and at least 16 points from projects earned.				
20.	Langua	age of Instruction	Macedonian					
21.	Course evaluation			Student questionnaire				
22	Toyth					•	•	•

22.	Textbooks							
	22.1.	Instruction materials						
		No.	Author	Title	Publisher	Year		

	1.	T. Kandikjan	Eco-design	Lecture notes	2011		
	2.						
	3.						
	Supplemental Instruction Materials						
	No.	Author	Title	Publisher	Year		
22.2.	1.	F. Giudice, G. La Rosa, A. Risitano	Product Design for the Environment: A Life Cycle Approach	CRC Press	2006		
	2.	D. Reis	Product Design in the Sustainable Era	Tashen	2010		
	3.	A. Fuad-Luke	Ecodesign: The Sourcebook	Chronicle Books	2010		