

Add. 3		Course program for the first, second and third degree of studies			
1.	Course title	Design of Machines and Appliances			
2.	Code	133			
3.	Study group(s)	IND			
4.	The organizer of the study program (unit, institute, department)	Faculty of Mechanical Engineering - Skopje, Ss. Cyril and Methodius University in Skopje			
5.	Level (first, second, third)	First			
6.	Academic year / semester	winter	7.	Number of ECTS credits	6
8.	Instructor	Assoc. Prof. Sofija Sidorenko, PhD			
9.	Prerequisites	Ergonomics for designers - passed Computer - Aided Design - passed Product Architecture - signature			
10.	Course objectives (competences): Training of the students for practical solutions for design tasks in the field of machines and appliances, from concept to real model - prototype.				
11.	Course content: Redesign, innovative design, methods for inspiration, establishing of the design problem, user population, list of requirements of the potential users, creation of concepts, selection of final concept, material selection, testing of the prototypes with application of contemporary software tools, branding.				
12.	Study methods: interactive lectures, auditory practice and/or laboratory practice, self running and/or team work projects, self learning.				
13.	Total hours	6 ECTS x 30 hours = 180 hours			
14.	Hours allocation per activity:	30 + 30 + 120 + 0 + 0 = 180 hours			
15.	Lectures/Lab	15.1.	Teaching lectures	30 hours	
		15.2.	Practice, seminars, team work	30 hours	
16.	Project Work/Assignments	16.1.	Project assignments	120 hours	
		16.2.	Selfrunning assignments	0 hours	
		16.3.	Home studying	0 hours	
17.	Points/Marks:				
	17.1.	Tests			60
	17.2.	Projects			30
	17.3.	Attendance			10
18.	Grading scale	Under 50		5 (five) (F)	
		51 - 60 points		6 (six) (E)	
		61 - 70 points		7 (seven) (D)	
		71 - 80 points		8 (eight) (C)	
		81 - 90 points		9 (nine) (B)	
		91 - 100 points		10 (ten) (A)	
19.	Prerequisites for taking the final exam	Finished activities 15.1; 15.2; 16.1			
20.	Language of Instruction	Macedonian language			
21.	Course evaluation				

22.	Textbooks					
	22.1.	Instruction materials				
		No.	Author	Title	Publisher	Year
		1.	Sofija Sidorenko	Design of Machines and Appliances	internal book	2011
2.						

		3.				
	22.2.	Supplemental Instruction Materials				
		No.	Author	Title	Publisher	Year
		1.	IDSA Industrial Designers Society of America	Design Secrets: Products	Rockport Publishers, Inc	2001
		2.	Mel Byars	ON/OFF New electronic Products	Calman & King Ltd., London	2001
		3.	Human Factors in Consumer Products	Neville Stanton	Taylor & Francis	1998