

Add. 3		Course program for the first, second and third degree of studies			
1.	Course title	Ergonomics for Designers			
2.	Code	152			
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	Industrial Design - passed Design Process - signature Computer - Aided Design - signature			
10.	Course objectives (competences): Training of the students for methods and principals of ergonomics and anthropometry and their application in product design; design of safe and comfortable products in accordance to the user anthropometry.				
11.	Course content: Introduction to ergonomics and anthropometry. Application of anthropometry in ergonomics. Body postures; ergonomics of seating; ergonomics in design of manual devices; ergonomics of spaces and interiors. Ergonomics for special target groups. Ergonomics in product design. Ergonomics in vehicle design. Application of virtual mannequins.				
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 + 60 + 0 + 60 = 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	60 hours	
		16.2.	Selfrunning assignments	0 hours	
		16.3.	Home studying	60 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
1.	Sofija Sidorenko	Ergonomics for Designers	internal book	2011	

		2.				
		3.				
	22.2.	Supplemental Instruction Materials				
		No.	Author	Title	Publisher	Year
		1.	Stephen Pheasant, Christine M. Haslegrave	BODYSPACE, Anthropometry, Ergonomics and the Design of Work	Taylor & Francis	1996
		2.	Alvin R. Tilley	The measure of man and woman, human factors in design	John Wiley & Sons	2002
		3.	Karl H. E. Kroemer	"Extra-Ordinary" Ergonomics	Taylor & Francis	2006