

Add. 3		Course program for the first, second and third degree of studies			
1.	Course title	Product development management			
2.	Code	199			
3.	Study group(s)	IEM			
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 degree)	First			
6.	Academic year / semester	Winter	7.	Number of ECTS credits	6
8.	Professor	Prof. Valentina Gecevska			
9.	Preconditions for enrolling the course	None			
10.	Purpose of the course program (competences):  Identification of needs for development of new products and services, the application of modern management methodology for development and its implementation in production and service companies.				
11.	Contents of the course program:  Introduction to the methodology for the development of new products and services, development management, the notion of product life-cycle, the notion of product platform, basics of the triz method, generating of the ideas, innovativeness, basics of mass customization strategy, modularity, configurability. Implementation of the product development management in small, medium and large companies.				
12.	Study methods:  Interactive teaching, Laboratory and/or in-class exercises, individual and/or team work on projects, self-study.				
13.	Total available time period	6 ECTS x 30 hours = 180 hours			
14.	Available time assessment	30 + 30 + 30 + 30 + 60 = 180 hours			
15.	Educational activity module	15.1.	Teaching lectures	30 hours	
		15.2.	Practice, seminars, team work	30 hours	
16.	Other activity module	16.1.	Project assignments	40 hours	
		16.2.	Selfrunning assignments	20 hours	
		16.3.	Home studying	60 hours <sup>3</sup>	
17.	Evaluation methods				
	17.1.	Tests			70 points
	17.2.	Projects			20 points
	17.3.	Activity and participation			10 points
18.	Evaluation criteria (points and marks)		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.	Signature and final exam requirements	Realized activity 17.2			
20.	Language used for performing the teaching	Macedonian language			
21.	Method used for following the teaching quality	Surveys and other forms of continuous evaluation			

22.	References				
22.1.	Main references				
	No.	Author	Title	Publisher	Year
	1.	V. Dukovski	Managing new product development	UKIM, Skopje	2003
	2.	V. Gechevska	Managing new product development, copied teaching materials	Faculty of mechanical engineering – Skopje, UKIM	2011
	3.	C. Loch	Handbook of New Product Development Management	Elsevier	2008
22.2.	Additional references				
	No.	Author	Title	Publisher	Year
	1.	G. Steinhardt	The Product Manager's Toolkit: Methodologies, Processes and Tasks in High-Tech Product Management	Springer, Germany	2010
	2.				
	3.				