

Add. 3		Course program for the second level (second cycle - postgraduate) of studies			
1.	Course title	Probability and statistics			
2.	Code	1M4SEE03			
3.	Study group(s)	SEE			
4.	The organizer of the study program (unit, institute, department)	"Ss. Cyril and Methodius" University in Skopje, Faculty of Mechanical Engineering - Skopje			
5.	Level (first, second, third)	Second			
6.	Academic year / semester	V / winter	7.	ECTS credits	6
8.	Professor	Prof. dr. Nikola Tuneski			
9.	Prerequisites	None			
10.	Course objectives (competences): Introduction to the probability and techniques for probability calculations. Usage of elements of statistics and statistical estimates.				
11.	Course content: Combinatory. Theory of probability: classical approach, conditional probability, Bayes formula. Random variables, limit theorems. Elements of statistics: parameter estimates, interval estimates, testing hypothesis.				
12.	Study methods: lectures, lab, project assignments, individual assignments, self-study.				
13.	Total hours	6 ECTS x 30 = 180 hours			
14.	Hours allocation per activity:	30+15+40+30+65 = 180 hours			
15.	Lectures/Lab	15.1.	Lectures (15 week x 2)	30 hours	
		15.2.	Lab (student work)	15 hours	
16.	Project Work/Assignments	16.1.	Project assignments	40 hours	
		16.2.	Individual assignments	30 hours	
		16.3.	Self-study	65 hours	
17.	Points/Marks:				
	17.1.	Exams			40
	17.2.	Projects			50
	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	Activity 16.1			
20.	Language	English			
21.	Course evaluation	Student questionnaire			

22.	Textbooks				
22.1.	Instruction materials				
	No.	Author	Title	Publisher	Year
	1.	Walpole R.E., Myers R.H., Myers S.L., Ye K.	Probability & Statistics for Engineering & Scientists	Prentice Hall	2007
	2.	J.P. Marques de Sa	Applied Statistics using SPSS, STATISTICA and MATLAB	Springer-Verlag	2003
22.2.	Supplemental Instruction Materials				
	No.	Author	Title	Publisher	Year
	1.	Mendenhal W., Sincich T.	Statistics for Engineering and the Sciences	Maxwel Macmillan	1992