

Add. 3		Course program for the first, second and third level (cycle) of studies			
1.	Course title	Probability and Statistics			
2.	Code	111			
3.	Study group(s)	Industrial Engineering and Management			
4.	The organizer of the study program (unit, institute, department)	Faculty of Mechanical Engineering - Skopje			
5.	Level (first, second, third)	First			
6.	Academic year / semester	Second / winter	7.	ECTS credits	6
8.	Instructor	Dushan Chakmakov			
9.	Prerequisites	Mathematics 1			
10.	Course objectives (competences): Introduction to foundations of probability theory and probability calculus. Using elements of statistical inference and estimations.				
11.	Course content: Combinatorics. Probability theory: classical probability, conditional probability, Bayes' formula. Random variables, distributions, limit theorems. Statistical inference: descriptive statistics, point estimation, interval estimation and tests of hypotheses.				
12.	Study methods: lectures, auditory practice, individual assignments, self-learning				
13.	Total hours	6 ECTS x 30 hours = 180 hours			
14.	Hours allocation per activity:	30 + 30 + 0 + 30 + 90			
15.	Lectures/Lab	15.1.	Lectures	30	
		15.2.	Lab (student work)	30	
16.	Project Work/Assignments	16.1.	Project assignments	0	
		16.2.	Individual assignments	30	
		16.3.	Self-learning	90	
17.	Points/Marks:				
	17.1.	Tests(2 x 40 points)	80 points		
	17.2.	Projects	10 points		
	17.3.	Attendance	10 points		
18.	Grading scale	Under 50		5 (five) (F)	
		50-59 points		6 (six) (E)	
		60- 69points		7 (seven) (D)	
		70 -79points		8 (eight) (C)	
		80-89points		9 (nine) (B)	
		90- 100 points		10 (ten) (A)	
19.	Prerequisites for taking the final exam	/			
20.	Language of Instruction	Macedonian			
21.	Course evaluation	Student questionnaire			

22.	Textbooks				
	Instruction materials				
	No.	Author	Title	Publisher	Year
22.1.	1.	Mendenhal W., Sincich T.	Statistics for Engineering and Science	Maxwell Macmillan	1992
	2.	Tuneski N.	Exercises in Probability and Statistics	Internal edition	2005
	3.				
22.2.	Supplemental Instruction Materials				
	No.	Author	Title	Publisher	Year