

Add. 3		Course program for the first, second and third level (cycle) of studies			
1.	Course title	TECHNICAL MECHANICS 2			
2.	Code	313			
3.	Study group(s)	Plnf. IND. DC			
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	summer term	7.	ECTS credits	6
8.	Instructor	Prof. Dame Korunoski, Ph. D.			
9.	Prerequisites	Technical mechanics 1 - signature			
10.	Course objectives (competences): Study of different types of basic and complex movements of points and bodies, determination of speeds and accelerations. Introducing kinematics and dynamic for elements of mechanical systems. Introduction to the basics of the theory of oscillations of mechanical systems.				
11.	Course content: Equations of motion of point in different coordinate systems. Velocity and acceleration of point in different coordinate systems. Special cases of movements. Kinematics of a rigid body. Complex movement of a point. Dynamics of a point. General laws of dynamics. Forced movement of the point. Relative movement of the point. General laws of dynamic systems. Material moment of inertia. Dynamics of a rigid body. Analytical mechanics. Fundamentals of the theory of oscillations.				
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 + 45 + 0 + 45 + 60 = 180 Hours			
15.	Lectures/Lab	15.1.	Lectures	30 Hours	
		15.2.	Lab (student work)	45 Hours	
16.	Project Work/Assignments	16.1.	Project assignments	0	
		16.2.	Individual assignments	45 Hours	
		16.3.	Self-study	60 Hours	
17.	Points/Marks:				
	17.1.	Tests			80 points
	17.2.	Projects			15 points
	17.3.	Attendance			5 points
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	completed activitie 16.2			
20.	Language of Instruction	Macedonian			
21.	Course evaluation	Student questionnaire			
22.	Textbooks				

	22.1.	Instruction materials				
		No.	Author	Title	Publisher	Year
		1.	Ivan Mickoski Hristijan Mickoski	Kinematics e-script	Faculty of Mechanical Engineering	2011
		2.	Ivan Mickoski Hristijan Mickoski	Dynamics and oscillations e-script	Faculty of Mechanical Engineering	2011
	3.	D. Kocmanovski D. Korunoski K. Angushev	Collection of dynamic problems	Ss. Cyril and Methodius University in Skopje	1997	
	22.2.	Supplemental Instruction Materials				
		No.	Author	Title	Publisher	Year
	1.	Ivan Mickoski Hristijan Mickoski	Collection of kinematics problems e-script	Faculty of Mechanical Engineering	2011	