a) General				
School ENGI	NEERING			
Academic unit MECH	IANICAL ENG	INEERING		
Level of studies Under	graduate			
Course code MM00	02Y04	Semester		2
Course title Mechanics II				
Independent teaching activities	5	Weekly teaching	g hours	ECTS
Lectures		4		45
Laboratory exercises		0		т.5
Course type		General background		
Course category		Compulsory		
Prerequisite courses		-		
Language of instruction and examinations		Greek		
Is the course offered to Erasmus students		No		
Course website (url)		https://eclass.uniwa.gr/courses/MECH137/		
b) Learning outcomes and g	eneral competen	ices		
b1. Learning outcomes				
 Realize the basic concepts of kinematic and dynamics Understand the basic principles of engineering mechanics & solve complex engineering problems Analyse the mechanisms that are subject to dynamic stresses Recognise & Evaluate dynamic loading / systems. b2. General competences Apply Mechanics theory to several engineering problems Working independently Team work c) Syllabus Kinematics of Particles, Kinetics of Particles: Newton's Second Law, Kinetics of Particles; Energy and Momentum Methods, Impulse and Momentum, Impacts, Systems of Particles, Kinematics of Rigid Bodies, Plane Motion of Rigid Bodies: Forces and Accelerations, Plane				
Motion of Rigid Bodies: Energy and Momentum Methods, Kinetics of Rigid Bodies in Three Dimensions, Mechanical Vibrations				
d) Teaching and learning methods - Evaluation				
Delivery	Face-to-face, Distance learning			
Use of information and communications technology	 Multimedia applications MS Teams and eclass Open courses 			
	A	ctivity	Sem	nester workload
	Lectures			52
Teaching methods	Tutorials			0
	Laboratory exe	ercises		0
	Computational	exercises		0

	Individual work	78		
	Course total	130		
Student performance evaluation	Final Exam			
e) Suggested bibliography				
 Beer, F.P., Jhonston, E. R. and Cornwell, P.J. (2016). Vector Mechanics for Engineers. 11th Ed. Ελληνική Έκδοση, Εκδόσεις Τζιόλα. 				