

UNIVERSITY OF NIŠ

Course Unit Descriptor		Faculty	/ F	aculty of Me	chanical Engineering		
GENERAL INFORMATION		<u></u>					
Study Program	Mechanical Engineering						
Study Module (if applicable)	-						
Course Title	Dynamics						
Level of Study	Bachelor Doctoral						
Type of Course	☑ Obligatory						
Semester	🗆 Autumn		🛛 Sprir	ıg			
Year of Study	11						
Number of ECTS Allocated	7						
Name of Lecturer/Lecturers	Ratko G. Pavlović, Goran Janevski						
	⊠ Lectures		Group	Group tutorials 🛛 Individual tutorials			
Teaching Mode	□ Laboratory work		🗆 Projec	t work	Seminar		
	□ Distance learning		🗆 Blend	ed learning	□ Other		
Purpose and Overview (max. 5 se	ntences)						
The main objective of the course is mechanics, geometry of mass mo Thermodynamics, Mechanical con	s to provide s vements of ri struction, The	tudents theor gid bodies. Tr eories of oscill	retical kno raining stu lations an	owledge of b Idents to foll d the Theory	asic, general laws, principles of ow lectures of Fluid Mechanics, of mechanisms.		
Syllabus (brief outline and summa	ary of topics,	max. 10 sente	ences)				
General laws of particle dynamics. Motion of points on the line and su Principles of dynamics and Lagran a fixed axis, plane motion of a rigic of a body of variable weight.	. Motion of p urface. The dy ge's Equation I body and ro	particles under namics of the s 2 nd . The iner tation rigid be	r conserv e relative rtia of boo ody about	ative forces. motion of a dy. Dynamics t a fixed poin	Motion of particles under central fo point. Dynamics for a system of partic s of translation, rotation rigid body ab nt. Elastic and inelastic collision. Dynar	rce. :les. out	
Language of Instruction							
Serbian (complete course)	🗆 Engl	lish (complete	e course)	□ Ot	ther (complete course	;)	
Serbian with English mentoring							
Assessment Methods and Criteria							
Pre exam Duties	Point	s Final Exam		Points			

Activity During Lectures	5	Written Examination	50				
Practical Teaching	5	Oral Examination	Max. 50				
Teaching Colloquia	50	Overall Sum	100				
*Final examination mark is formed in accordance with the Institutional documents							