



UNIVERSITY OF NIŠ

Course Unit Descriptor

Faculty

Faculty of Mechanical Engineering

GENERAL INFORMATION

Study program	Mechatronics and Control
Study Module (if applicable)	-
Course title	Mechanisms in Mechatronics
Level of study	<input type="checkbox"/> Bachelor <input checked="" type="checkbox"/> Master's <input type="checkbox"/> Doctoral
Type of course	<input type="checkbox"/> Obligatory <input checked="" type="checkbox"/> Elective
Semester	<input type="checkbox"/> Autumn <input checked="" type="checkbox"/> Spring
Year of study	I
Number of ECTS allocated	6
Name of lecturer/lecturers	Nenad D. Pavlović, Miloš Milošević
Teaching mode	<input checked="" type="checkbox"/> Lectures <input checked="" type="checkbox"/> Group tutorials <input type="checkbox"/> Individual tutorials <input checked="" type="checkbox"/> Laboratory work <input checked="" type="checkbox"/> Project work <input type="checkbox"/> Seminar <input type="checkbox"/> Distance learning <input type="checkbox"/> Blended learning <input type="checkbox"/> Other

PURPOSE AND OVERVIEW (max. 5 sentences)

The purpose of this course is to gain some advanced knowledge in the field of kinematics and dynamics analysis of mechanism and mechatronic assemblies which realizes the movement in mechatronics devices. Students should gain the ability to replace classical mechanisms by adequate mechatronic assemblies.

SYLLABUS (brief outline and summary of topics, max. 10 sentences)

- Analysis of mechatronic systems that required movements realize by mechanisms
- Replacement of classic mechanisms with corresponding mechatronic assemblies
- Modeling and testing of control algorithms at models of rigid body assemblies of mechatronic systems.

LANGUAGE OF INSTRUCTION

- Serbian (complete course) English (complete course) Other _____ (complete course)
- Serbian with English mentoring Serbian with other mentoring _____

ASSESSMENT METHODS AND CRITERIA

Pre exam duties	Points	Final exam	points
Activity during lectures	10	Written examination	
Homework	20	Oral examination	Max. 40
Project work	30	OVERALL SUM	100

***Final examination mark is formed in accordance with the Institutional documents**