



UNIVERSITY OF NIŠ

Course Unit Descriptor

Faculty

Faculty of Mechanical Engineering

GENERAL INFORMATION

Study program

Mechanical Engineering

Study Module (if applicable)

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Course title

Mechatronic system design

Level of study

Bachelor Master's Doctoral

Type of course

Obligatory Elective

Semester

Autumn Spring

Year of study

IV

Number of ECTS allocated

6

Name of lecturer/lecturers

Petrović B. Tomislav

Teaching mode

Lectures Group tutorials Individual tutorials
 Laboratory work Project work Seminar
 Distance learning Blended learning Other

PURPOSE AND OVERVIEW (max. 5 sentences)

Introducing methods for mechatronic system design and development. Introducing methods for mechatronic system optimization. Training for the design of mechatronic systems and team work in the field of development of mechatronic systems.

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

Basics of the development and design of mechatronic systems.
Process of mechatronic system design and development.
Environment, function and structure of mechatronic system
Methods for mechatronic system design and development
Methods for selection of optimal mechatronic system design
Methods for accuracy and reliability enhancement of mechatronic system
Safety issues for mechatronic systems
Analysis of developed mechatronic systems

LANGUAGE OF INSTRUCTION

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

ASSESSMENT METHODS AND CRITERIA

Pre exam duties	Points	Final exam	points
Activity during lectures	10	Written examination	0
Practical teaching	10	Oral examination	30
Teaching colloquia	50	OVERALL SUM	100

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