



# UNIVERSITY OF NIŠ

**Course Unit Descriptor**

**Faculty**

## GENERAL INFORMATION

Study program

**Mechatronics and Control**

Study Module (if applicable)

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Course title

MM.1.4-I.2-1 Digital Image Processing in Mechatronics

Level of study

Bachelor  Master's  Doctoral

Type of course

Obligatory  Elective

Semester

Autumn  Spring

Year of study

1

Number of ECTS allocated

6

Name of lecturer/lecturers

Aca D. Micic

Teaching mode

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

## PURPOSE AND OVERVIEW (max. 5 sentences)

Use of and mastering the basic techniques of digital image processing. Management of mechatronic processes. Mastering software agents for monitoring and process control.

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

- Introduction to digital image processing.
- The formation and presentation of images.
- Transformation of the picture.
- Restoration image, detecting edges.
- Analysis of texture and pattern recognition in the image.
- Analysis of dynamic scenes.
- Measuring the dimensions of movable and immovable objects.
- Design of image processing ipraćenja process.

## 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	
Practical teaching		Oral examination	50
Teaching colloquia	10+10+10+10	OVERALL SUM	100

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