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|  **UNIVERSITY OF NIŠ** |
| **Course Unit Descriptor** | **Faculty** |  |
| **GENERAL INFORMATION** |
| Study program  | **Mechatronics and Control** |
| Study Module (if applicable) | - |
| Course title | MМ.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  | I |
| 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.
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| **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** |