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|  **UNIVERSITY OF NIŠ** |
| **Course Unit Descriptor** | **Faculty**  | Faculty of Mechanical Engineering |
| **GENERAL INFORMATION** |
| Study program  | **Manufacturing & Information Technologies** |
| Study Module (if applicable) |  |
| Course title | Systems of measuring, collecting and processing data |
| 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 | dr Predrag Janković |
| Teaching mode |  ☒ Lectures ☒ Group tutorials ☐ Individual tutorials ☒ Laboratory work ☒ Project work ☐ Seminar ☐Distance learning ☐ Blended learning ☐ Other |
| **PURPOSE AND OVERVIEW (max. 5 sentences)** |
| Acquiring knowledge in the field of modern, computer systems and of measuring transducers. Qualification for analyzing measurement tasks, even if the application of contemporary systems and transducers. Qualifications for computer processing of measurement data. |
| **SYLLABUS (brief outline and summary of topics, max. 10 sentences)** |
| Collection and processing of measurement signals. Definition, structure and division of transducers. Resistive transducers. Inductive measuring transducers. Capacitive measuring transducers. The piezoelectric measuring sensors. The optoelectronic transducers. The latest solutions transducers. |
| **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** | **15** | **Written examination** |  |
| **Practical teaching** | **10** | **Oral examination** | **30** |
| **Teaching colloquia** | **45** | **OVERALL SUM** | **100** |
| **\*Final examination mark is formed in accordance with the Institutional documents** |