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|  **UNIVERSITY OF NIŠ** |
| **Course Unit Descriptor** | **Faculty**  | **Faculty of Electronic Engineering Niš** |
| **GENERAL INFORMATION** |
| Study program  | Control Systems |
| Study Module (if applicable) | Computer Control Systems and Measurement Techniques |
| Course title | Intelligent Measuring Systems |
| Level of study |  Bachelor **X** **Master’s** Doctoral |
| Type of course |  Obligatory **X** **Elective** |
| Semester  |  Autumn **X** Spring |
| Year of study  | First |
| Number of ECTS allocated | 4 |
| Name of lecturer/lecturers | Živanović B. Dragan |
| Teaching mode |  **X** **Lectures**  Group tutorials **X** **Individual tutorials** **X Laboratory work** **X** **Project work** Seminar Distance learning Blended learning Other |
| **PURPOSE AND OVERVIEW (max. 5 sentences)** |
| Deepening knowledge about inteligent sensors, distributed measurement systems and virtual instrumentation. The ability of students to understand structure and characteristics of modern measurement systems. The ability to make a concept of measurement system, develop measurement methods and realize virtual instument based on the project task. |
| **SYLLABUS (brief outline and summary of topics, max. 10 sentences)** |
| Basic block diagram of an inteligent measurement system. Basic definitions. Integrated inteligent sensors and integrated measurement moduls. Distributed measurement systems. Connection of measurement and computer systems. Virtual instrumentation and virtual laboratories. Metrological characteristics of inteligent measurement systems. Measurement and control systems in cars based on inteligent sensors. |
| **LANGUAGE OF INSTRUCTION** |
| **X** **Serbian** (complete course) English (complete course) Other \_\_\_\_\_\_\_\_\_\_\_\_\_ (complete course) Serbian with English mentoring Serbian with other mentoring \_\_\_\_\_\_\_\_\_\_\_\_\_\_ |
| **ASSESSMENT METHODS AND CRITERIA** |
| **Pre exam duties** | **60 Points** | **Final exam** | **40 points** |
| **Activity during lectures** | **10** | **Written examination** | **20** |
| **Practical teaching** | **50** | **Oral examination** | **20** |
| **Teaching colloquia** |  | **OVERALL SUM** | **100** |
| **\*Final examination mark is formed in accordance with the Institutional documents** |