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|  **UNIVERSITY OF NIŠ** |
| **Course Unit Descriptor** | **Faculty**  | **Faculty of Electronic Engineering** |
| **GENERAL INFORMATION** |
| Study program  | **Control Systems** |
| Study Module (if applicable) | **Automatic Control, Computer Control Systems and Measurement Techniques** |
| Course title | Electromedical Instrumentation |
| 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 | Radenkovic N. Dragan |
| Teaching mode |  [x] Lectures [x] Group tutorials [x]  Individual tutorials [ ] Laboratory work [ ]  Project work [ ]  Seminar [ ] Distance learning [ ]  Blended learning [ ]  Other |
| **PURPOSE AND OVERVIEW (max. 5 sentences)** |
| *Mastering the basic knowledge necessary to understand the functioning of the relevant electromedical instruments. Theoretical knowledge, knowledge of working principle and structure of the relevant electromedical devices.* |
| **SYLLABUS (brief outline and summary of topics, max. 10 sentences)** |
| **ell as a source of the bioelectric potential. Electrodes for biopotential measuring. Instruments for recording EMG, ECG and EEG signals. Devices for electrostimulation and electrotherapy. Pacemakers and defibrillators. Instruments for the formation of medical image based on electromagnetic radiation and nuclear magnetic resonance. Other electromedical instrumentation.** |
| **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** | **Points** | **Final exam** | **points** |
| **Activity during lectures** | **10** | **Written examination** | **30** |
| **Practical teaching** | **10** | **Oral examination** | **40** |
| **Teaching colloquia** | **10** | **OVERALL SUM** | **100** |
| **\*Final examination mark is formed in accordance with the Institutional documents** |