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|  **UNIVERSITY OF NIŠ** |
| **Course Unit Descriptor** | **Faculty**  | Faculty of Electronic Engineering |
| **GENERAL INFORMATION** |
| Study program  | Electrical Engineering and Computing |
| Study Module (if applicable) | Electronics |
| Course title | Analog Electronics |
| Level of study | [x] Bachelor [ ]  Master’s [ ]  Doctoral |
| Type of course | [x]  Obligatory [ ]  Elective |
| Semester  |  [ ]  Autumn [x] Spring |
| Year of study  | 2 |
| Number of ECTS allocated | 6 |
| Name of lecturer/lecturers | Dragiša Milovanović. Miona Andrejević Stošović |
| Teaching mode |  [x] Lectures [ ] Group tutorials [ ]  Individual tutorials [x] Laboratory work [ ]  Project work [ ]  Seminar [ ] Distance learning [ ]  Blended learning [ ]  Other |
| **PURPOSE AND OVERVIEW (max. 5 sentences)** |
| To give students an understanding of ideal and non-ideal operational amplifier based circuits, circuit stability, internally and externally frequency compensation of op-amp, op-amp integrated circuit, function generator circuits for analog signal processing, active filters. The aim of the laboratory is to provide students with knowledge of the Pspice simulation of analog electronic circuits. |
| **SYLLABUS (brief outline and summary of topics, max. 10 sentences)** |
| Operational amplifier applications. Non ideal operational amplifier characteristics. Stability of an operational amplifier circuit. Frequency compensation in op-amp. op-amp integrated-circuit. Function generator circuits for analog signal processing. Active filters. Laboratory practice: Introduce the principles of the simulation of analog electronic circuit using PSpice program package. |
| **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** | **20** |
| **Practical teaching** | **10** | **Oral examination** | **20** |
| **Teaching colloquia** | **40** | **OVERALL SUM** | **100** |
| **\*Final examination mark is formed in accordance with the Institutional documents** |