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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) | Telecommunications - Telecommunications and Signal Processing |
| Course title | Audio Technique |
| Level of study | [x] Bachelor [ ]  Master’s [ ]  Doctoral |
| Type of course | [ ]  Obligatory [x]  Elective |
| Semester  |  [ ]  Autumn [x] Spring |
| Year of study  | 4 |
| Number of ECTS allocated | 6 |
| Name of lecturer/lecturers | Ćirić G. Dejan, Nikolić R. Jelena |
| Teaching mode |  [x] Lectures [ ] Group tutorials [ ]  Individual tutorials [x] Laboratory work [x]  Project work [ ]  Seminar [ ] Distance learning [ ]  Blended learning [ ]  Other |
| **PURPOSE AND OVERVIEW (max. 5 sentences)** |
| Acquiring basic theoretical and practical knowledge about audio technique, audio signals and systems, audio equipment, recording and reproduction of sound.Theoretical knowledge in the field of audio technique. Application of theoretical knowledge. Adequate usage of audio equipment and appropriate software. Skills in sound recording. Audio system design. |
| **SYLLABUS (brief outline and summary of topics, max. 10 sentences)** |
| Basic concepts of audio technique. Sound information field. Analog and digital audio signals. Characteristics and standards related to audio signals. Sound field as an audio system input. Auditory system an audio system output. Perceptive effects of sound. Audiometry. Audio components and systems. Microphone concept (sound recording techniques). Effects of sound recording environment (studio and control room). Spatial effects of perceived sound (3D sound). Audio devices (analogue and digital - mixers, recorders, players, processors). Interconnections and power supply of audio devices. Sound reproduction. Output acoustic environment. Basics of audio signal processing. Audio signal quality measures. |
| **LANGUAGE OF INSTRUCTION** |
| [x] Serbian (complete course) [x]  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** | **5** | **Written examination** | **25** |
| **Practical teaching** | **20** | **Oral examination** | **25** |
| **Teaching colloquia** | **25** | **OVERALL SUM** | **100** |
| **\*Final examination mark is formed in accordance with the Institutional documents** |