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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 |
| Course title | Sound Generation and Perception |
| Level of study | [ ] Bachelor [ ]  Master’s [x]  Doctoral |
| Type of course | [ ]  Obligatory [x]  Elective |
| Semester  |  [x]  Autumn [x] Spring |
| Year of study  | 2 |
| Number of ECTS allocated | 10 |
| Name of lecturer/lecturers | Ćirić G. Dejan |
| Teaching mode |  [x] Lectures [ ] Group tutorials [ ]  Individual tutorials [x] Laboratory work [x]  Project work [x]  Seminar [ ] Distance learning [ ]  Blended learning [ ]  Other |
| **PURPOSE AND OVERVIEW (max. 5 sentences)** |
| Acquiring knowledge and skills, introduction to the latest developments and research in the field of sound generation, propagation, modeling, processing and perception.Theoretical knowledge; Solving of practical problems: acoustical desing, sound insulation, system desing and measurements. Advanced usage of equipment. |
| **SYLLABUS (brief outline and summary of topics, max. 10 sentences)** |
| Generation of speech and music signals, as well as noise required for acoustical measurements. Sound propagation in open and closed spaces. Sound perception. Construction and analysis of modern recording and reproduction systems. Acoustics of closed spaces. Sound reinforcement. Noise and noise protection. Generation of sound effects with predefined characteristics. Standards and norms of acoustic quality. Acoustical measurement technique.Solving of problems through study and research work (Generation of sound (speech and music signals). Sound sources. Propagation of sound. Sound perception (generation of sound image). Characteristics of modern recording and reproduction systems. Acoustical characteristics of closed spaces. Characteristics of speech and music. Acoustical measurement technique). |
| **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** |  | **Written examination** |  |
| **Practical teaching** | **25** | **Oral examination** | **50** |
| **Teaching colloquia** | **25** | **OVERALL SUM** | **100** |
| **\*Final examination mark is formed in accordance with the Institutional documents** |