|  |
| --- |
|  **UNIVERSITY OF NIŠ** |
| **Course Unit Descriptor** | **Faculty**  | Electronic Engineering |
| **GENERAL INFORMATION** |
| Study program  | Electrical Engineering and Computing |
| Study Module (if applicable) | Telecommunications |
| Course title | Digital Modulation Techniques |
| Level of study | Bachelor Master’s x Doctoral |
| Type of course |  Obligatory x Elective  |
| Semester  |  Autumn Spring |
| Year of study  | 1 |
| Number of ECTS allocated | 10 |
| Name of lecturer/lecturers | Drača Lj. Dragan |
| Teaching mode |  x Lectures Group tutorials Individual tutorials Laboratory work x Project work Seminar Distance learning Blended learning Other |
| **PURPOSE AND OVERVIEW (max. 5 sentences)** |
| Mastering the basic knowledge necessary to determine the performance of digital modulation techniques. |
| **SYLLABUS (brief outline and summary of topics, max. 10 sentences)** |
| Minimum Shift Keying (MSK) and MSK modulation types. Modulation with the continuous phase. Phase Modulation. Spectrally efficient modulation without constant envelope. Performance of modulation techniques in fading channels, and equalization. |
| **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** | 50 | **Oral examination** | **50** |
| **Teaching colloquia** |  | **OVERALL SUM** | **100** |
| **\*Final examination mark is formed in accordance with the Institutional documents** |