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| **UNIVERSITY OF NIŠ** | | | | | | |
| **Course Unit Descriptor** | | **Faculty** | | | Faculty of Electrical Engineering | |
| **GENERAL INFORMATION** | | | | | | |
| Study program | | | | Telecommunications | | |
| Study Module (if applicable) | | | | Radiocommunication engineering and technologies | | |
| Course title | | | | Design of RF and Microwave Devices | | |
| Level of study | | | | Bachelor  Master’s  Doctoral | | |
| Type of course | | | | Obligatory  Elective | | |
| Semester | | | | Autumn Spring | | |
| Year of study | | | | 5 | | |
| Number of ECTS allocated | | | | 4 | | |
| Name of lecturer/lecturers | | | | Maleš-Ilić P. Nataša, Pronić-Rančić R. Olivera, Marković V. Vera | | |
| Teaching mode | | | | Lectures Group tutorials  Individual tutorials  Laboratory work  Project work  Seminar  Distance learning  Blended learning  Other | | |
| **PURPOSE AND OVERVIEW (max. 5 sentences)** | | | | | | |
| Enabling students to work in a modern software packages for design, analysis and optimization of microwave circuits. Knowledge of the procedures for design of RF and microwave passive and active circuits. | | | | | | |
| **SYLLABUS (brief outline and summary of topics, max. 10 sentences)** | | | | | | |
| Modern approach to circuit design (CAD techniques). Modeling and simulation. Optimization of the design process. Design of passive microwave devices. X parameters. Design of active microwave devices. Design of front-end of microwave receivers. Software packages for the analysis, design and optimization of RF and microwave circuits. Auditory exercises. Solving of problems using microwave circuit simulators. | | | | | | |
| **LANGUAGE OF INSTRUCTION** | | | | | | |
| 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** | **5** | | **Written examination** | | | **25** |
| **Practical teaching** | **45** | | **Oral examination** | | | **25** |
| **Teaching colloquia** |  | | **OVERALL SUM** | | | **100** |
| **\*Final examination mark is formed in accordance with the Institutional documents** | | | | | | |