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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 | Wireless Internet Access |
| Level of study | [ ] Bachelor [x]  Master’s [ ]  Doctoral |
| Type of course | [ ]  Obligatory [x]  Elective |
| Semester  |  [x]  Autumn [ ] Spring |
| Year of study  | 1 |
| Number of ECTS allocated | 4 |
| Name of lecturer/lecturers | Dončov S. Nebojša, Stanković Ž. Zoran |
| 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)** |
| The acquisition of theoretical and practical knowledge of the standard methods and techniques for wireless Internet access. Knowledge of current techniques of wireless Internet access. Knowledge of the practical implementation of various network architectures for the Internet access. |
| **SYLLABUS (brief outline and summary of topics, max. 10 sentences)** |
| Overview of wireless communications standards that are used for Internet access. Internet access based on the IEEE 802.15 standard. PAN architecture and wireless networks. Bluetooth technology in the data transfer. Internet access based on the IEEE 802.11 standard. Wi-Fi. PLCP and PMD layers of data transfer. Equipment for the implementation of wireless Internet access. Roaming in wireless networks and mobile IP protocol. Architecture of IEEE.802.16 network for Internet access. Wi-Max. Internet Access via GSM. WAP. Satellite Internet. Data security in the systems for wireless Internet access. Practical work related to the operation analysis and adjustment of components for wireless Internet access. Practical work related to the implementation of various network architectures and service sets for wireless Internet access in a laboratory environment. |
| **LANGUAGE OF INSTRUCTION** |
| [ ] 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** | **20** |
| **Practical teaching** | **25** | **Oral examination** | **20** |
| **Teaching colloquia** | **30** | **OVERALL SUM** | **100** |
| **\*Final examination mark is formed in accordance with the Institutional documents** |