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|  **UNIVERSITY OF NIŠ** |
| **Course Unit Descriptor** | **Faculty**  | Faculty of Electronic Engineering |
| **GENERAL INFORMATION** |
| Study program  | **Computing and Informatics** |
| Study Module (if applicable) | Computer engineering |
| Course title | Mobile Computing |
| Level of study | [ ] Bachelor [x]  Master’s [ ]  Doctoral |
| Type of course | [ ]  Obligatory [x]  Elective |
| Semester  |  [ ]  Autumn [x] Spring |
| Year of study  | 1 |
| Number of ECTS allocated | 4 |
| Name of lecturer/lecturers | Milentijević Z. Ivan, Stanković Đ. Vladimir, Simić S. Vladimir |
| 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)** |
| *The main objective is to familiarize students with mobile computer systems. Student is expected to develop mobile computer systems and mobile applications.* |
| **SYLLABUS (brief outline and summary of topics, max. 10 sentences)** |
| **Introduction, history, impact on computing. Wireless communications, and wireless systems. Wireless Networks: PAN / LAN / WAN. Wireless protocols, wireless TCP, session mobility. Mobile-IP, Ad-hoc networks and ad-hoc routing. Mobile data management, broadcast models, mobile databases and transactions. Location-independent model. Location services. User interfaces of mobile systems. Programming languages ​​and environments for developing mobile applications. Mobile applications and services. Security. Quality of Service. Exercises through students' projects.** |
| **LANGUAGE OF INSTRUCTION** |
| [x] 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** | **10** | **Written examination** |  |
| **Practical teaching** | **50** | **Oral examination** | **40** |
| **Teaching colloquia** |  | **OVERALL SUM** | **100** |
| **\*Final examination mark is formed in accordance with the Institutional documents** |