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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) | Information Systems |
| Course title | Application of Computers in Defence and Security |
| 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 | Dejan D. Rančić, Aleksandar Lj. Milosavljević |
| Teaching mode |  [x] Lectures [x] Group tutorials [ ]  Individual tutorials [ ] Laboratory work [x]  Project work [ ]  Seminar [ ] Distance learning [ ]  Blended learning [ ]  Other |
| **PURPOSE AND OVERVIEW (max. 5 sentences)** |
| *Introduction to the basic characteristics and application areas of computing in the field of defence and security. Theoretical and practical knowledge on the application of computing in the field of defence and security.* |
| **SYLLABUS (brief outline and summary of topics, max. 10 sentences)** |
| **Historical overview of computing application in the field of defense and security. Basic principles of electronic warfare. Principles of electronic attacks. Jamming electronic communications. Insertion of artificial noise. Inserting false information. Tempest technology. Information systems for battlefield management. The application of computing in emergency situations. Simulation and prediction of floods. Systems for hail supression. Simulation and prediction of fire spread. Simulation and prediction of the spread of toxic material in chemical incidents. Systems for early detection and warning of danger. Surveillance systems. The integration of sensors in systems for defense and security.** |
| **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** |