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| **UNIVERSITY OF NIŠ** |
| **Course Unit Descriptor** | **Faculty** | Faculty of Mechanical Engineering |
| **GENERAL INFORMATION** |
| Study Program | **Engineering management** |
| Study Module (if applicable) | - |
| Course Title | Information technology 2 |
| Level of Study | ☒Bachelor | ☐ Master’s | ☐ Doctoral |
| Type of Course | ☒ Obligatory | ☐ Elective |
| Semester | ☐ Autumn | ☒ Spring |
| Year of Study | I |
| Number of ECTS Allocated | 6 |
| Name of Lecturer/Lecturers | Dragan Mišić, Miroslav Trajanović |
| Teaching Mode | ☒ Lectures | ☐ Group tutorials | ☐ Individual tutorials |
| ☒ Laboratory work | ☒ Project work | ☒ Seminar |
| ☐ Distance learning | ☐ Blended learning | ☐ Other |
| **Purpose and Overview (max. 5 sentences)** |
| *After successful completion of this course, a student will have basic knowledge of databases, have insight in their role in modern business applications, as well as in contemporary methods for processing large amounts of data.**Students should know modern technologies for storing data and should be able to design database schemas. Students should also have knowledge of contemporary tools for processing large amounts of data and accessing data warehouses. Students will learn to design simple databases and access them using SQL (Structured Query Language).* |
| **Syllabus (brief outline and summary of topics, max. 10 sentences)** |
| Basic concepts and characteristics of data model. Relational data model. Logic and physical data independence. Database systems. Classification and constraint types in relational modal. Normal forms. Structured Query Language (SQL). |
| **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** | **10** | **Written Examination** | **40** |
| **Practical Teaching** |  | **Oral Examination** |  |
| **Teaching Colloquia** | **50** | **Overall Sum** | **100** |
| **\*Final examination mark is formed in accordance with the Institutional documents** |