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			