UNIVERSITY OF NIŠ

Course Unit Descriptor	**Faculty**	Faculty of Mechanical Engineering in Nis

GENERAL INFORMATION

Study Program	**Mechanical Engineering**
Study Module (if applicable)	-
Course Title	Information systems in manufacturing
Level of Study	Bachelor ☐ Master's x Doctoral
Type of Course	☐ Obligatory ☒ Elective
Semester	☒ Autumn ☐ Spring
Year of Study	II
Number of ECTS Allocated	10
Name of Lecturer/Lecturers	Miroslav D. Trajanovic
Teaching Mode	☒ Lectures ☐ Group tutorials ☐ Individual tutorials ☒ Laboratory work x Project work x Seminar ☐ Distance learning ☐ Blended learning ☐ Other

Purpose and Overview (max. 5 sentences)

Detailed analysis of the functions and components of the manufacturing information systems. Analysis of the methods for design and implementation of manufacturing information systems and their components.

Syllabus (brief outline and summary of topics, max. 10 sentences)

- *Theory*
- Key concepts of manufacturing information systems: Information requirements in production systems, Manufacturing information, Manufacturing databases
- Enterprise Resource Planning (ERP) systems
- Manufacturing Workflow systems
- Supply Chain Management (SCM) systems
- Manufacturing data acquisition systems
- Industrial communication systems
- Information systems for Collaborative Networked Organizations
- Integration of the manufacturing information systems
- Strategic impact of the manufacturing information systems
- *Practice*

Definition of the requirements, design and implementation of the manufacturing information systems in a real case scenario. Re-engineering of the existing manufacturing information system

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		Written Examination	
Practical Teaching	70	Oral Examination	30
Teaching Colloquia		Overall Sum	100
*Final examination mark is formed in accordance with the Institutional documents			