UNIVERSITY OF NIŠ

Course Unit Descriptor	Faculty	Faculty of Mechanical Engineering

GENERAL INFORMATION	
Study program	Manufacturing & Information Technologies
Study Module (if applicable)	
Course title	Systems of measuring, collecting and processing data
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	dr Predrag Janković
Teaching mode	☒ Lectures ☒ Group tutorials ☐ Individual tutorials ☒ Laboratory work ☒ Project work ☐ Seminar ☐Distance learning ☐ Blended learning ☐ Other

PURPOSE AND OVERVIEW (max. 5 sentences)

Acquiring knowledge in the field of modern, computer systems and of measuring transducers. Qualification for analyzing measurement tasks, even if the application of contemporary systems and transducers. Qualifications for computer processing of measurement data.

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

Collection and processing of measurement signals. Definition, structure and division of transducers. Resistive transducers. Inductive measuring transducers. Capacitive measuring transducers. The piezoelectric measuring sensors. The optoelectronic transducers. The latest solutions transducers.

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	**15**	**Written examination**	
Practical teaching	**10**	**Oral examination**	**30**
Teaching colloquia	**45**	**OVERALL SUM**	**100**
***Final examination mark is formed in accordance with the Institutional documents**			