UNIVERSITY OF NIŠ

Course Unit Descriptor	Faculty	Faculty of Mechanical Engineering

GENERAL INFORMATION	
Study Program	Mechanical Engineering
Study Module (if applicable)	-
Course Title	Engineering Graphics
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	Predrag M. Rajković, Nenad T. Pavlović, Miloš S. Milošević
Teaching Mode	☒ Lectures ☐ Group tutorials ☐ Individual tutorials ☒ Laboratory work ☒ Project work ☒ Seminar ☐ Distance learning ☐ Blended learning ☐ Other

Purpose and Overview (max. 5 sentences)

Getting the knowledge about the basic geometrical objects and their relative positions and sections, developing surfaces, as well as the vector analysis and computing graphics.
Getting the knowledge about technical drawing standards referring to orthogonal projections, sections, dimensioning and tolerance of the machine parts, as well as referring to the creation of technical documentation of machine parts and assemblies.

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

Introduction in Engineering Graphics. Perspective and parallel projection. Projections of simple curves, surfaces and bodies. Axonometric and orthogonal projection of machine parts.
Intersections of curves and surfaces. Sections of machine parts.
Photorealistic drawings. Rendering. Objects transformations. Free geometric forms - interpolation, spline and Bezier curves and surfaces.
Dimensioning of machine parts. Tolerance of machine parts. Creation of technical documentation. Simplify presentation of machine parts. Welding parts and assemblies.

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	0
Practical Teaching	0	Oral Examination	30
Teaching Colloquia	60	Overall Sum	100
*Final examination mark is formed in accordance with the Institutional documents			