



UNIVERSITY OF NIŠ

Course Unit Descriptor

Faculty

Faculty of Mechanical Engineering

GENERAL INFORMATION

Study Program	Mechanical Engineering		
Study Module (if applicable)	-		
Course Title	CAD Technology		
Level of Study	<input checked="" type="checkbox"/> Bachelor	<input type="checkbox"/> Master's	<input type="checkbox"/> Doctoral
Type of Course	<input type="checkbox"/> Obligatory	<input checked="" type="checkbox"/> Elective	
Semester	<input checked="" type="checkbox"/> Autumn	<input type="checkbox"/> Spring	
Year of Study	III		
Number of ECTS Allocated	6		
Name of Lecturer/Lecturers	Miomir Lj. Jovanović		
Teaching Mode	<input checked="" type="checkbox"/> Lectures	<input type="checkbox"/> Group tutorials	<input type="checkbox"/> Individual tutorials
	<input checked="" type="checkbox"/> Laboratory work	<input checked="" type="checkbox"/> Project work	<input type="checkbox"/> Seminar
	<input type="checkbox"/> Distance learning	<input type="checkbox"/> Blended learning	<input type="checkbox"/> Other

Purpose and Overview (max. 5 sentences)

Introduce students to the basics of CAD technology, Processes design, Computer graphics, Concept of geometry Modeling, Tools for modeling. Finit Element concept, Training of the structural analysis. Developing skills to good software design. Examples of CAD realisation.

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

1. Introduce students to the basics of CAD technology, 2. Processes design, 3. Computer graphics, 4. Teory of colors, 5. Geometry modeling, 6. Tools for modeling, 7. Finit Element concept, 8. Structural analysis (Statical and dynamical analysis). 9. Optimisation of construction, 10. Clasical (differential) optimisation, 11. Gradient technique of minimisation, 12. Numerical procedures, 12. Examples of computer software. 13. Instructions for exam. 14. Preparatory examination.

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	5	Written Examination	(Three Colloquiums) 60

Practical Teaching	5	Final (oral) Examination	Max. 30
Teaching Colloquia	60	Overall Sum	100

***Final examination mark is formed in accordance with the Institutional documents**