



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

Reverse Engineering

Level of study

Bachelor Master's Doctoral

Type of course

Obligatory Elective

Semester

Autumn Spring

Year of study

IV (fourth year)

Number of ECTS allocated

6 (six)

Name of lecturer/lecturers

1 (one)

Teaching mode

Lectures Group tutorials Individual tutorials
 Laboratory work Project work Seminar
 Distance learning Blended learning Other

PURPOSE AND OVERVIEW (max. 5 sentences)

The aim of the course is to introduce the students with the reverse engineering methods used for creation of the 3D geometrical models, which are based on physical models. Students are also introduced to equipment and software that is used in the process of reverse engineering.

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

The concept and principles of reverse engineering
Contact 3D digitizers.
Contactless Digitizers: reflective and transmissive.
Creating a 3D model based on point cloud.
Methods applied for editing and healing of geometrical model.
Model conversion between different formats.

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	50	Oral examination	0
Teaching colloquia		OVERALL SUM	100

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