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| **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** | | | | | | |