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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 | [x] Bachelor ☐ Master’s ☐ Doctoral |
| Type of course | ☐ Obligatory[x]  Elective |
| Semester  | [x]  Autumn ☐Spring |
| Year of study  | IV (fourth year) |
| Number of ECTS allocated | 6 (six) |
| Name of lecturer/lecturers | 1 (one) |
| Teaching mode | [x] Lectures ☐Group tutorials ☐ Individual tutorials[x] Laboratory work [x]  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 engineeringContact 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** |
| [x] 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** |