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|  **UNIVERSITY OF NIŠ** |
| **Course Unit Descriptor** | **Faculty** | Faculty of Mechanical Engineering |
| **GENERAL INFORMATION** |
| Study program  | **Mechanical Engineering** |
| Study Module (if applicable) |  |
| Course title | Quality Assurance in Mechanical Engineering |
| Level of study | ☒Bachelor ☐ Master’s ☐ Doctoral |
| Type of course | ☐ Obligatory☒ Elective |
| Semester  | ☐ Autumn ☒Spring |
| Year of study  | IV |
| Number of ECTS allocated | 5 |
| Name of lecturer/lecturers | Stefanović-Marinović D. Jelena |
| Teaching mode | ☒Lectures ☐Group tutorials ☐ Individual tutorials☒Laboratory work ☒ Project work ☒ Seminar☐Distance learning ☐ Blended learning ☐ Other |
| **PURPOSE AND OVERVIEW (max. 5 sentences)** |
| Students will be introduced with theoretical basis, defining and management of mechanical system quality. Also machine system testing and standards for quality insurance are the parts of the course. |
| **SYLLABUS (brief outline and summary of topics, max. 10 sentences)** |
| * Quality planning and development. Quality characteristics and their classification
* Development and design process analyze
* Product quality management. Basis of TQM
* Level of mmechanical system quality. The method estimates the level of quality. Quality at the stages of production.
* Basics of metrology and testing of mechanical systems. The principle of measurement of physical quantities electrically. Experimental determination of stress and strain.
* Standardization and quality assurance of mechanical systems. International, national and internal standardization. Standards and models for product quality assurance. ISO 9000 series of standards.
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| **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** |  |
| **Practical teaching** |  | **Oral examination** | **40** |
| **Teaching colloquia** | **55** | **OVERALL SUM** | **100** |
| **\*Final examination mark is formed in accordance with the Institutional documents** |