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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. | | | | | | |
| **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** | | | | | | |