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|  **UNIVERSITY OF NIŠ** |
| **Course Unit Descriptor** | **Faculty**  |  |
| **GENERAL INFORMATION** |
| Study program  | **CHEMICAL TECHNOLOGIES and ТЕXTILE TECHNOLOGIES** |
| Study Module (if applicable) | *FOOD TECHNOLOGY MODULE**BIOTECHNOLOGY MODULE,**PHARMACEUTICAL AND COSMETIC ENGINEERING MODULE**ORGANIC CHEMICAL TECHNOLOGY AND POLYMER ENGINEERING MODULE**ECOLOGICAL ENGINEERING MODULE**TEXTILE ENGINEERING MODULE* |
| Course title | Basics of mechanical engineering |
| Level of study | [x] Bachelor [ ]  Master’s [ ]  Doctoral |
| Type of course | [x]  Obligatory [ ]  Elective |
| Semester  |  [ ]  Autumn [x] Spring |
| Year of study  | I |
| Number of ECTS allocated | 7 |
| Name of lecturer/lecturers |  |
| Teaching mode |  [x] Lectures [x] Group tutorials [ ]  Individual tutorials [ ] Laboratory work [ ]  Project work [ ]  Seminar [ ] Distance learning [ ]  Blended learning [x]  Other |
| **PURPOSE AND OVERVIEW (max. 5 sentences)** |
| To provide students with basic theoretical knowledge about the basics of mechanical engineering, to familiarize them with the elements of machines, with the principles of their work and their basic characteristics.Да студенти стекну основна теоријска знања о основама машинства, да се упознају са елементима машина, са принципима њиховог рада и са њиховим основним карактеристикама.  |
| **SYLLABUS (brief outline and summary of topics, max. 10 sentences)** |
| **Acquiring basic knowledge in designing and developing technical and technological documentation, static and material resistance from elements of machines and devices in process engineering. Basics of descriptive geometry and technical drawing (technical graphics). Introduction to basic principles of statics and material resistance.****Design. standardization and tolerance. Mechanical joints. Threaded connections. Pins and pins. The compounds of the shaft and rotating parts. The elements for power transmissionGears in general.. Gears with straight teeth. Gears with oblique teeth. Bevel Gear. Chain conveyors. Belt conveyors. Gearing. Elements for rotary motion. Axis and shafts. Rolling bearings. Plain bearings. Fittings.** |
| **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 (For students who have not passed the test colloquia)** |
| **Practical teaching** | **20** | **Oral examination** | **30** |
| **Teaching colloquia** | **40** | **OVERALL SUM** | **100** |
| **\*Final examination mark is formed in accordance with the Institutional documents** |