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|  **UNIVERSITY OF NIŠ** |
| **Course Unit Descriptor** | **Faculty** | Pedagogical Faculty in Vranje |
| **GENERAL INFORMATION** |
| Study program  | Technical Education and Informatics |
| Study Module (if applicable) | / |
| Course title | Practical work 3 |
| Level of study | ☐Bachelor ☒ Master’s ☐ Doctoral |
| Type of course | ☒ Obligatory☐ Elective |
| Semester  | ☐ Autumn ☒Spring |
| Year of study  | Third |
| Number of ECTS allocated | 3 |
| Name of lecturer/lecturers | Dragan Cenic |
| Teaching mode | ☐Lectures ☐Group tutorials ☐ Individual tutorials☒Laboratory work☒ Project work ☐ Seminar☐Distance learning ☐ Blended learning ☒ Other |
| **PURPOSE AND OVERVIEW (max. 5 sentences)** |
| *Acquiring basic knowledge about: developed technical and technological environment, the basic concept of information and communication technologies, using of computer with ready-made software for word processing, graphical representations, interface and internet, application of science in techniques and technology, developing of a logical concepts and ability for problems solving and knowledge application and verification in practice.**After completing the course students will be able to: apply acquired knowledge in designing objects, choose the production technology and appropriate machines, preparation, manual and mechanical processing of metals, metal bonding and metal casting at low melting temperatures, surface protection of metals, computer application for preparation and realization the teaching process for the subject Technical and IT education in the seventh grade.* |
| **SYLLABUS (brief outline and summary of topics, max. 10 sentences)** |
| **Practical teaching****Technical content:****Materials and machines. Designing objects, study of production technology, choosing appropriate machines, choice the appropriate machines and devices and the use of tools. Creation of a prototype of the product and improving the final product. Testing and evaluation of products. Preparation of metallic materials. Manual processing - measurement, shearing, cutting, sawing, filing, grinding. Fatigue and bending of metal. Machining wireand winding elements. Handmade inner and outer thread. Metal bonding - screwing, riveting, bonding, soldering, welding. Machining of metals - drilling, grinding, broaching, and processing the softer metals and plastics. Casting of metals with low melting temperatures, surface protection of metals. Emphasis on the constant and periodic maintenance of tools, utilities, as well as the workshop.****IT content:****Classes realize in the classroom with computers. Students make tasks according to themes which are included into subject *Technical and IT education* in the seventh grade (using drawing programsAutoCad, OpenOffice Draw, Corel Draw, program to create multimedial presentations PowerPoint, modelsmanagement using computer, working with designers based on internet technology).** |
| **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** |  | **Written examination** |  |
| **Practical teaching** | **10** | **Oral examination(practical)** | **50** |
| **Teaching colloquia** | **40** | **OVERALL SUM** | **100** |
| **\*Final examination mark is formed in accordance with the Institutional documents** |