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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 | Engineering Drawing and Computer Graphics | | | | | | | |
| Level of Study | ☐Bachelor | | | ☒ Master’s | | | | ☐ Doctoral |
| Type of Course | ☒ Obligatory | | | ☐ Elective | | | | |
| Semester | ☒ Autumn | | | ☐ Spring | | | | |
| Year of Study | Third | | | | | | | |
| Number of ECTS Allocated | 7 | | | | | | | |
| Name of Lecturer/Lecturers | Nenad T. Pavlović | | | | | | | |
| Teaching Mode | ☒ Lectures | | | ☐ Group tutorials | | | | ☐ Individual tutorials |
| ☒ Laboratory work | | | ☒ Project work | | | | ☒ Seminar |
| ☐ Distance learning | | | ☐ Blended learning | | | | ☐ Other |
| **Purpose and Overview (max. 5 sentences)** | | | | | | | | |
| *Getting the knowledge about the basic geometrical objects and their relative positions and sections, developing surfaces, as well as the vector analysis and computing graphics.*  *Getting the knowledge about technical drawing standards referring to orthogonal projections, sections, dimensioning and tolerance of the machine parts, as well as referring to the creation of technical documentation of machine parts and assemblies.* | | | | | | | | |
| **Syllabus (brief outline and summary of topics, max. 10 sentences)** | | | | | | | | |
| Introduction in Engineering Graphics. Perspective and parallel projection. Projections of simple curves, surfaces and bodies. Axonometric and orthogonal projection of machine parts.  Intersections of curves and surfaces. Sections of machine parts.  Photorealistic drawings. Rendering. Objects transformations. Free geometric forms - interpolation, spline and Bezier curves and surfaces.  Dimensioning of machine parts. Tolerance of machine parts. Creation of technical documentation. Simplifying presentation of machine parts. Welding parts and assemblies. | | | | | | | | |
| **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** | | **10** | **Written Examination** | | | **0** | | |
| **Practical Teaching** | | **0** | **Oral Examination** | | | **30** | | |
| **Teaching Colloquia** | | **60** | **Overall Sum** | | | **100** | | |
| **\*Final examination mark is formed in accordance with the Institutional documents** | | | | | | | | |