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| **UNIVERSITY OF NIŠ** | | | | | | | | |
| **Course Unit Descriptor** | | | **Faculty** | | Faculty of Mechanical Engineering | | | |
| **GENERAL INFORMATION** | | | | | | | | |
| Study Program | **Engineering Management** | | | | | | | |
| Study Module (if applicable) | Management of innovation and product development | | | | | | | |
| Course Title | Integrated product development | | | | | | | |
| Level of Study | ☐Bachelor | | | ☒ Master’s | | | | ☐ Doctoral |
| Type of Course | ☒ Obligatory | | | ☐ Elective | | | | |
| Semester | ☒ Autumn | | | ☐Spring | | | | |
| Year of Study | I | | | | | | | |
| Number of ECTS Allocated | 6 | | | | | | | |
| Name of Lecturer/Lecturers | Milan J. Rackov, 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)** | | | | | | | | |
| *To gain new knowledge with integrated approach in product development, defining product profile, gain new idea solution*  *based on physical effect, concept, draft and elaborate design, prototyping and product verification.* | | | | | | | | |
| **Syllabus (brief outline and summary of topics, max. 10 sentences)** | | | | | | | | |
| 1) Introduction, 2) Mechanical system as object of product development, 3) Product development – process and organisation. Integrated product development as global development strategy. Simultaneous engineering.  , 4) Product models. Place and role of product development in company, 5) Management of integrated product development, 6) Product life cycle, 7) Modelling of function. Basic modelling of function. 8) Modelling of function regarding product transformation. | | | | | | | | |
| **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** | | | **0** | | |
| **Practical Teaching** | | **35** | **Oral Examination** | | | **30** | | |
| **Teaching Colloquia** | | **30** | **Overall Sum** | | | **100** | | |
| **\*Final examination mark is formed in accordance with the Institutional documents** | | | | | | | | |