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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 | 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 | 10 |
| Name of Lecturer/Lecturers | Dragan S. Milčić, Miloš D. Milovančević, Aleksandar V. Miltenović |
| 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. Product development – process and organisation, 2) Management of integrated product development, 3) Product life cycle. Phases of the life cycle: product planning, development, design, testing, production preparation,production, entering the market, sales, service, operation, liquidation recycling, 4) Modelling tool. Basics of modelling functions, 5) Morphology and conceptual elaboration, 6) Draft and elaborate, 7) Development and design of alternative products, 8) Structural analysis and identification of (selected) solutions |
| **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** | **0** | **Written Examination** | **50** |
| **Practical Teaching** | **0** | **Oral Examination** | **50** |
| **Teaching Colloquia** | **0** | **Overall Sum** | **100** |
| **\*Final examination mark is formed in accordance with the Institutional documents** |