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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) | Industrial management |
| Course Title | Technology and business prediction |
| 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 | Miodrag T. Manić, Vladislav Blagojević |
| Teaching Mode | ☒ Lectures | ☐ Group tutorials | ☐ Individual tutorials |
| ☒ Laboratory work | ☒ Project work | ☒ Seminar |
| ☐ Distance learning | ☐ Blended learning | ☐ Other |
| **Purpose and Overview (max. 5 sentences)** |
| *Introduce students with the essence, methods and techniques in the field of prediction technology, trends and other market tendencies as an essential aspect of the activity of each manager.* |
| **Syllabus (brief outline and summary of topics, max. 10 sentences)** |
| 1) Introduction to technology prediction basic concepts and definitions, 2) The current passes in predicting technology - exploratory, and technological - normative 3) The selection of forecasting methods. Selection of parameters and collect data to predict, 4) Exploratory methods and forecasting techniques: brainstorming, Delphi, morphological analysis and extrapolation of trends, 5) Normative techniques and predictive methods: tree relevance and PATTERN methods. AHP methods and Expert Choice, 6) Application of expert systems. |
| **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** | **20** |
| **Practical Teaching** | **10** | **Oral Examination** | **20**  |
| **Teaching Colloquia** | **40** | **Overall Sum** | **100** |
| **\*Final examination mark is formed in accordance with the Institutional documents** |