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|  **UNIVERSITY OF NIŠ** |
| **Course Unit Descriptor** | **Faculty**  | Faculty of Mechanical Engineering |
| **GENERAL INFORMATION** |
| Study program  | **Manufacturing & Information Technologies** |
| Study Module (if applicable) |  |
| Course title | Ecologization of production systems |
| 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 | dr Predrag Janković |
| Teaching mode |  ☒ Lectures ☒ Group tutorials ☐ Individual tutorials ☒ Laboratory work ☒ Project work ☐ Seminar ☐Distance learning ☐ Blended learning ☐ Other |
| **PURPOSE AND OVERVIEW (max. 5 sentences)** |
| Students acquire basic knowledge about ecology, ecological materials and the greening of production processes, technology and systems.  |
| **SYLLABUS (brief outline and summary of topics, max. 10 sentences)** |
| Sustainable systems. Production technologies and their impact on the environment. Risk and laws exploitation of natural reserves. Development of new materials and technologies in mechanical engineering from the aspect of ecology. The choice of materials and technologies for environment protection sredinei. Aspects of energy efficiency of production systems in order to protect the environment and natural resources. "Green Technology" and the processes of open flow of materials and energy. Review of legislation in the field of environmental protection. |
| **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** | **15** | **Written examination** |  |
| **Practical teaching** | **10** | **Oral examination** | **30** |
| **Teaching colloquia** | **45** | **OVERALL SUM** | **100** |
| **\*Final examination mark is formed in accordance with the Institutional documents** |