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|  **UNIVERSITY OF NIŠ** |
| **Course Unit Descriptor** | **Faculty** | FACULTY OF TECHNOLOGY LESKOVAC |
| **GENERAL INFORMATION** |
| Study program  | Technological engineering |
| Study Module (if applicable) |  |
| Course title | Advances in industrial microbiology |
| Level of study | ☐Bachelor ☐ Master’s X Doctoral |
| Type of course | ☐ Obligatory X Elective |
| Semester  | X Autumn XSpring |
| Year of study  | I |
| Number of ECTS allocated | 8 |
| Name of lecturer/lecturers | Dragiša Savić, Bojana Danilović |
| Teaching mode | X Lectures ☐Group tutorials ☐ Individual tutorials☐ Laboratory work X Project work ☐ Seminar☐Distance learning ☐ Blended learning ☐ Other |
| **PURPOSE AND OVERVIEW (max. 5 sentences)** |
| *More detailed and complete gaining knowledge about certain modern industrial microbial processes, and introduction to modern trends in the application of microorganisms for obtaining products and conducting chemical transformations at the industrial level. Mastering the course provides the theoretical basis for developing microbiological processes from laboratory procedure on industrial levels, as well as the development of microbiological transformations in order to protect the environment.* |
| **SYLLABUS (brief outline and summary of topics, max. 10 sentences)** |
| **Novel aproaches in the production of existing microbial products, Industrial processes and genetics modified microorganisms, Advantages and disadvantages of the use of genetically modified microorganisms, International standards for GMO, Screening for new microbial products, The development of microbial processes at industrial level****Modern microbial processes for the environmental protection** |
| **LANGUAGE OF INSTRUCTION** |
| X 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** |  |
| **Practical teaching** |  | **Oral examination** | **10** |
| **Teaching colloquia** | **80** | **OVERALL SUM** | **100** |
| **\*Final examination mark is formed in accordance with the Institutional documents** |