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|  **UNIVERSITY OF NIŠ** |
| **Course Unit Descriptor** | **Faculty** |  |
| **GENERAL INFORMATION** |
| Study program  | FOOD TECHNOLOGY AND BIOTECHNOLOGY  |
| Study Module (if applicable) | FOOD TECHNOLOGY MODULEBIOTECHNOLOGY MODULE |
| Course title | Bioprocesses in Environmental protection |
| Level of study | ☒ Bachelor ☐ Master’s ☐ Doctoral |
| Type of course | ☒ Obligatory ☐ Elective |
| Semester  | ☒ Autumn ☐ Spring |
| Year of study  | 4 |
| Number of ECTS allocated | 7 |
| Name of lecturer/lecturers | Slavica Ilić |
| Teaching mode | ☒ Lectures ☐ Group tutorials ☐ Individual tutorials☒ Laboratory work ☐ Project work ☒ Seminar☐ Distance learning ☐ Blended learning ☐ Other |
| **PURPOSE AND OVERVIEW (max. 5 sentences)** |
| Applying knowledge which is needed on the use of biotechnology in wastewater process flows of the food industry, as a contribution to environmental protection in the food industry and biotechnology. |
| **SYLLABUS (brief outline and summary of topics, max. 10 sentences)** |
| Selection and basic characteristic of biotechnology process suitable for use in environmental protection. Aerobic processes- activated sludge, biofiltration, biodisc, the aerobic lagoons and lakes. Anaerobic processes for wastewater flows. Obtaining a biogas and bioethanol. Bioremediation and phytoremediation. Biological monitoring, bioindicators. |
| **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** | **20** |
| **Practical teaching** | **5** | **Oral examination** | **40** |
| **Teaching colloquia** | **20** | **OVERALL SUM** | **100** |
| **Seminars** | **10** |  |  |
| **\*Final examination mark is formed in accordance with the Institutional documents** |