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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 module  Biotechnology 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** | | | | | | |