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|  **UNIVERSITY OF NIŠ** |
| **Course Unit Descriptor** | **Faculty**  |  |
| **GENERAL INFORMATION** |
| Study program  | Undergraduate studies: Chemical Technologies |
| Study Module (if applicable) | Ecological Engineering |
| Course title | Environmental Engineering |
| Level of study | [x] Bachelor [ ]  Master’s [ ]  Doctoral |
| Type of course | [x]  Obligatory [ ]  Elective |
| Semester  |  [ ]  Autumn [x] Spring |
| Year of study  | Fourth |
| Number of ECTS allocated | 5 |
| Name of lecturer/lecturers | Vlada Veljković and Slavica Ilić |
| Teaching mode |  [x] Lectures [x] Group tutorials [ ]  Individual tutorials [ ] Laboratory work [ ]  Project work [x]  Seminar [ ] Distance learning [ ]  Blended learning [ ]  Other |
| **PURPOSE AND OVERVIEW (max. 5 sentences)** |
| Students gain the necessary knowledge in environmental engineering. The aim of the course is to introduce students with the principles of operation and processes of environmental engineering. Students are able to calculate operations and processes used in environmental protection. Students acquire knowledge which enables them to work in real conditions. By comprehensive understanding of the problems, students are able to previously acquired knowledge to solve them. |
| **SYLLABUS (brief outline and summary of topics, max. 10 sentences)** |
| Operations and chemical processes in environmental protection (18 hours): coagulation/flocculation, sedimentation, filtration, adsorption, fluidization, precipitation, absorption, neutralization, oxidation, helatacija and membrane processes. Bioprocesses in environmental protection (12 hours): processes with activated sludge, anaerobic digestion, bioremediation, biofiltration and bioconversion. |
| **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** | **40** |
| **Practical teaching and seminar work** | **25** | **Oral examination** | **30** |
| **Teaching colloquia** | **40** | **OVERALL SUM** | **100** |
| **\*Final examination mark is formed in accordance with the Institutional documents** |