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| **UNIVERSITY OF NIŠ** | | | | | | |
| **Course Unit Descriptor** | | **Faculty** | | | Faculty of Technology | |
| **GENERAL INFORMATION** | | | | | | |
| Study program | | | | chemical technologies, food technology and biotechnology | | |
| Study Module (if applicable) | | | | FOOD TECHNOLOGY MODULE, BIOTECHNOLOGY MODULE, PHARMACEUTICAL AND COSMETIC ENGINEERING MODULE, ORGANIC CHEMICAL TECHNOLOGY AND POLYMER ENGINEERING MODULE, ECOLOGICAL ENGINEERING MODULE . | | |
| Course title | | | | Water technology | | |
| Level of study | | | | ☒Bachelor ☐ Master’s ☐ Doctoral | | |
| Type of course | | | | ☐ Obligatory ☒ Elective | | |
| Semester | | | | ☐ Autumn ☒Spring | | |
| Year of study | | | | IV year | | |
| Number of ECTS allocated | | | | 6 | | |
| Name of lecturer/lecturers | | | | Ljiljana Takić | | |
| Teaching mode | | | | ☒Lectures ☐Group tutorials ☐ Individual tutorials  ☐Laboratory work ☐ Project work ☒ Seminar  ☐Distance learning ☐ Blended learning ☒ Other | | |
| **PURPOSE AND OVERVIEW (max. 5 sentences)** | | | | | | |
| Throughout the subject the student should get the knowledge about the technology of obtaining drinking water. | | | | | | |
| **SYLLABUS (brief outline and summary of topics, max. 10 sentences)** | | | | | | |
| Chemically pure water. Elements of hydrology. Definitions and classification. Water in nature. The hydrologic cycle. Water resources and water consumption. Natural underground water. Onflow. Hydrological laws. Drinking water, industrial water, boiler, deionized and distilled water. Physical indicators of water quality. Temperature, taste, colour and turbidity. The chemical and microbiological indicators of water quality. Gases in natural water. Biochemical oxygen needs. The choice of technology and equipment for water purification. The treatment of ground and surface waters in order to obtain drinking water, examples. Quality standards for drinking water.  Practical teaching  Visit of reprocessing facilities for water treatment. | | | | | | |
| **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** | **10** | | **Written examination** | | | **30** |
| **Practical teaching** | **10** | | **Oral examination** | | | **50** |
| **Teaching colloquia** | **/** | | **OVERALL SUM** | | | **100** |
| **\*Final examination mark is formed in accordance with the Institutional documents** | | | | | | |