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| **UNIVERSITY OF NIŠ** |
| **Course Unit Descriptor** | **Faculty** | Faculty of Mechanical Engineering |
| **GENERAL INFORMATION** |
| Study Program | **Mechanical Engineering** |
| Study Module (if applicable) | - |
| Course Title | Municipal hydraulic engineering and irrigation |
| Level of Study | ☒Bachelor | ☐ Master’s | ☐ Doctoral |
| Type of Course | ☐ Obligatory | ☒ Elective |
| Semester | ☐ Autumn | ☒ Spring |
| Year of Study | III |
| Number of ECTS Allocated | 6 |
| Name of Lecturer/Lecturers | Jasmina B. Bogdanović-Jovanović |
| Teaching Mode | ☒ Lectures | ☐ Group tutorials | ☐ Individual tutorials |
| ☐ Laboratory work | ☒ Project work | ☒ Seminar |
| ☐ Distance learning | ☐ Blended learning | ☐ Other |
| **Purpose and Overview (max. 5 sentences)** |
| *The aim of the course is introducing students to different water supply systems*, sewerage and *drainage systems and irrigation systems. Students are going to learn how to design specific systems and make the proper pump(s) selection.* |
| **Syllabus (brief outline and summary of topics, max. 10 sentences)** |
| 1) Water supply systems – Introduction; elements of internal and external water supply network; water consumption. 2) Hydraulic calculation of external water supply systems. Branched and ring type water supply systems. 3) Pump selection. 4) Sewerage systems. Introduction. Internal and external sewage systems. 5) Basic elements of the sewage internal and external systems; Design and calculation. 6) Faecal pumps and sewage pumps. 7) Irrigation systems - General on irrigation (task and type of irrigation systems). 8) Spray or micro-sprinkler irrigation systems. 9) Drip irrigation sistems.  |
| **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** | **Max 40, depending on Teaching Colloquia**  |
| **Practical Teaching** | **5** | **Oral Examination** | **50** |
| **Teaching Colloquia** | **40** | **Overall Sum** | **100** |
| **\*Final examination mark is formed in accordance with the Institutional documents** |