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|  **UNIVERSITY OF NIŠ** |
| **Course Unit Descriptor** | **Faculty** | **Faculty of Civil Engineering and Architecture** |
| **GENERAL INFORMATION** |
| Study program  | **Civil Engineering** |
| Study Module (if applicable) | Hydraulic engineering |
| Course title | Flood control |
| Level of study | Master’s  |
| Type of course | Elective |
| Semester  | Autumn  |
| Year of study  | 1st  |
| Number of ECTS allocated | 5 |
| Name of lecturer/lecturers | Slaviša Trajković |
| Teaching mode | Lectures; Group tutorials; Individual tutorials |
| **PURPOSE AND OVERVIEW (max. 5 sentences)** |
| Mastering modern methods of planning and organizing flood protection by using active and passive measures. New materials and equipment for flood protection design.Students learn to work on the torrential and alluvial watercourses flood protection using modern methods, materials and equipment. |
| **SYLLABUS (brief outline and summary of topics, max. 10 sentences)** |
| Torrential and alluvial watercourses floods.The risk and flood damage assessment.Understanding active and passive flood proofing options.The impacts of exclusion wet and dry floodplains on flood waves.The levees design, the cost-benefit analysis.Flood protection based on retention ponds along the river and lakes.Simulation model for determining the impact of reservoirs in the upper catchment areas on flood waves.The flood control.Materials and equipment for flood protection. |
| **LANGUAGE OF INSTRUCTION** |
| Serbian (complete course); Serbian with English mentoring  |
| **ASSESSMENT METHODS AND CRITERIA** |
| **Pre exam duties** | **Points** | **Final exam** | **points** |
| **Activity during lectures** | **10** | **Written examination** |  |
| **Practical teaching** | **40** | **Oral examination** | **50** |
| **Teaching colloquia** |  | **OVERALL SUM** | **100** |
| **\*Final examination mark is formed in accordance with the Institutional documents** |