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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) | Traffic engineering |
| Course title | Structure testing |
| Level of study | Master’s  |
| Type of course | Elective |
| Semester  | Autumn  |
| Year of study  | 1st |
| Number of ECTS allocated | 5 |
| Name of lecturer/lecturers | Slobodan Ranković |
| Teaching mode | Lectures  |
| **PURPOSE AND OVERVIEW (max. 5 sentences)** |
| Getting to know with experimental analysis state of real construction and passing conclusion abouth them realy static and dynamic behaviour in compared with budgetery values.Realization of provided goals. |
| **SYLLABUS (brief outline and summary of topics, max. 10 sentences)** |
| Historical development, and purpose testing of construction, acquaintance with the technical regulations in the field of testing of construction.Classification of testing of construction, examples.Basic principles of testing, static testing of construction, general and local strains, ways of load application.Mechanical and geometric sizes which measures at testing of construction.Analysis of stress and strain. Mohr’s analogy of presenting stress and strain.Strain gauges, testing of construction and objects on models.Testing of dynamic influences, strain gauges for dynamic testing.Nondesructive methods in testing of construction.Practice examples of testing. |
| **LANGUAGE OF INSTRUCTION** |
| Serbian (complete course)  |
| **ASSESSMENT METHODS AND CRITERIA** |
| **Pre exam duties** | **Points** | **Final exam** | **points** |
| **Activity during lectures** | **10** | **Written examination** | **30** |
| **Practical teaching** | **20** | **Oral examination** | **40** |
| **Teaching colloquia** |  | **OVERALL SUM** | **100** |
| **\*Final examination mark is formed in accordance with the Institutional documents** |