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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) | | | | Structural engineering | | |
| Course title | | | | Lightweight metal structures | | |
| Level of study | | | | Master’s | | |
| Type of course | | | | Elective | | |
| Semester | | | | Autumn | | |
| Year of study | | | | 1st | | |
| Number of ECTS allocated | | | | 5 | | |
| Name of lecturer/lecturers | | | | Srđan Živković; Todor Vacev | | |
| Teaching mode | | | | Lectures; Group tutorials | | |
| **PURPOSE AND OVERVIEW (max. 5 sentences)** | | | | | | |
| Student is qualified for design of steel constructions of cold-formed members, tubular profiles and constructions of aluminium alloy.  Introducing into the basic concept of design of steel constructions of cold-formed members, tubular profiles and constructions of aluminium alloy. | | | | | | |
| **SYLLABUS (brief outline and summary of topics, max. 10 sentences)** | | | | | | |
| Application of cold-formed members, tubular profiles and aluminium alloy for constructions.  Material and production properties.  Effective cross-section properties.  Ultimate limit states and serviceability limit states.  Resistance of cross-sections: tension, compression, bending, shear, torsion.  Buckling resistance of members.  Uniform built-up compression members.  Connecting devices.  Design of joints. | | | | | | |
| **LANGUAGE OF INSTRUCTION** | | | | | | |
| Serbian (complete course) | | | | | | |
| **ASSESSMENT METHODS AND CRITERIA** | | | | | | |
| **Pre exam duties** | **Points** | | **Final exam** | | | **points** |
| **Activity during lectures** | **10** | | **Written examination** | | | **60** |
| **Practical teaching** |  | | **Oral examination** | | |  |
| **Teaching colloquia** | **30** | | **OVERALL SUM** | | | **100** |
| **\*Final examination mark is formed in accordance with the Institutional documents** | | | | | | |