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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** |