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|  **UNIVERSITY OF NIŠ** |
| **Course Unit Descriptor** | **Faculty** | Faculty of Civil Engineering and Architecture |
| **GENERAL INFORMATION** |
| Study program  | Architecture |
| Study Module (if applicable) |  |
| Course title | INSTALLATION UTILITIES IN BUILDINGS |
| Level of study | Integrated studies  |
| Type of course | Obligatory  |
| Semester  |  Autumn  |
| Year of study  | 3rd  |
| Number of ECTS allocated | 3 |
| Name of lecturer/lecturers | Dragan B. Milićević, Mladen M. Stoiljković, Snežana M. Đorić-Veljković |
| Teaching mode | Lectures  |
| **PURPOSE AND OVERVIEW (max. 5 sentences)** |
| Making students capable to individually solve professional problems from the fields of water supply, heating and ellctrical installations and indoor lightning of residential, commercial and other objects. Students are supposed to acquire knowledge to solve problems from the fields of water supply of objects, heating of residential and commercial buildings, as well as electrical installations and indoor lightning.design |
| **SYLLABUS (brief outline and summary of topics, max. 10 sentences)** |
| Intention is enabling students to independently solve technical problems in the field of water supply and sewerage of facility, heating of residential and commercial properties, and electrical installations and internal electric lighting in residential, commercial and other buildings.- Fundamental principles of water demand and consumers- Water resources- Fundamental hydraulic calculations of water distribution and sewer network in buildings- Special cases- Standards and Regulations- Fundamental principles of thermal calculations and heating bodies, central heating systems - Ventilation, fundamentals and calculations - Facilities for ventilation and air conditioning - Interior lighting design and potential to deliver innovative design- Electrical installation, components and electronic devices- Installation dimensioning, protection of electrical equipment and protection of human beings |
| **LANGUAGE OF INSTRUCTION** |
| Serbian (complete course)  |
| **ASSESSMENT METHODS AND CRITERIA** |
| **Pre exam duties** | **Points** | **Final exam** | **points** |
| **Activity during lectures** |  | **Written examination** | **40** |
| **Activity during exercises** |  | **Oral examination** | **30** |
| **Teaching colloquia** | **30** | **OVERALL SUM** | **100** |
| **\*Final examination mark is formed in accordance with the Institutional documents** |