|  |
| --- |
|  **UNIVERSITY OF NIŠ** |
| **Course Unit Descriptor** | **Faculty**  | **Faculty of Civil Engineering and Architecture** |
| **GENERAL INFORMATION** |
| Study program  | Architecture |
| Study Module (if applicable) |  |
| Course title | THERMAL AND ACOUSTIC PROTECTION OF BUILDINGS |
| Level of study | Doctoral studies  |
| Type of course | Elective |
| Semester  |  Autumn  |
| Year of study  | 2nd  |
| Number of ECTS allocated | 10 |
| Name of lecturer/lecturers | Veliborka B. Bogdanovic, Miomir S. Vasov |
| Teaching mode |  Lectures Individual tutorials Seminar |
| **PURPOSE AND OVERVIEW (max. 5 sentences)** |
| Scientific approach to the influences which cause need for thermal and acoustic insulation, in order to provide adequate comfort, as well as designing optimal thermal protective performances of architectural assemblies of energy efficient buildings. |
| **SYLLABUS (brief outline and summary of topics, max. 10 sentences)** |
| Enabling students to independently solve theoretical and practical problems with the application of scientific methods and procedures, as well as to independently conduct original research in the field of thermal and acoustic protection of buildings. Thermal protection of buildings investigates establishment of correlation between the need for thermal comfort, climate and urban characteristics of the location, the appropriate settings of architectural assemblies and buildings, heat losses and gains, as well as heat accumulation and thermal stability of the envelope, in order to achieve optimum thermal and energy efficiency and optimization, to prevent the occurrence of damage in construction, with newly designed, as well as in the energy revitalization of existing buildings. This course studies the acoustic protection in indoor space, as well as the processes of providing acoustic comfort environment in the region for different purposes, and the protection of areas of the acoustic process from the immediate surroundings and the environment. |
| **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** | **30** | **Oral examination** | **30** |
| **Teaching colloquia** | **0** | **OVERALL SUM** | **100** |
| **\*Final examination mark is formed in accordance with the Institutional documents** |