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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 | BIOCLIMATIC ARCHITECTURE 2 |
| Level of study | Integrated studies  |
| Type of course | Obligatory  |
| Semester  |  Autumn  |
| Year of study  | 5th  |
| Number of ECTS allocated | 4 |
| Name of lecturer/lecturers | Miomir S. Vasov, Veliborka B. Bogdanovic  |
| Teaching mode | Lectures Group tutorials Project work  |
| **PURPOSE AND OVERVIEW (max. 5 sentences)** |
| Enabling students to use bioclimatic principles in architectural design and environmental engineering in the context of green building, energy-efficient construction, the rational use of energy and favoring the use of renewable energy sources. |
| **SYLLABUS (brief outline and summary of topics, max. 10 sentences)** |
| Basic knowledge and competence of students for predictive analysis in the implementation of architectural projects from the standpoint of environmental and energy optimization of the building. Course content: Basic problems of architectural design of buildings in the context of local climatic conditions and rational use of energy, Traditional building as a result of adapting to the natural environment, The building towards environment, energy consumption, energy efficiency and bioclimatic design, Renewable energy sources and possibilities of their application in buildings, Data for bioclimatic planning and design, The principles of sustainable construction in the methodology of architectural design, Concepts and technical solutions using modern facade concepts and materials, The application of bioclimatic principles in architectural design: the mountain climate, coastal climate, suburban space and City Area. |
| **LANGUAGE OF INSTRUCTION** |
| Serbian (complete course)  |
| **ASSESSMENT METHODS AND CRITERIA** |
| **Pre exam duties** | **Points** | **Final exam** | **points** |
| **Activity during lectures** | **5** | **Written examination** | **40** |
| **Practical teaching** | **5+10** | **Oral examination** | **20** |
| **Teaching colloquia** | **20** | **OVERALL SUM** | **100** |
| **\*Final examination mark is formed in accordance with the Institutional documents** |