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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 AND ECOLOGICAL ARCHITECTURE |
| Level of study | Doctoral studies  |
| Type of course | Elective |
| Semester  | Spring |
| Year of study  | 1st  |
| Number of ECTS allocated | 10 |
| Name of lecturer/lecturers | Miomir S. Vasov |
| Teaching mode |  Lectures Individual tutorials Seminar |
| **PURPOSE AND OVERVIEW (max. 5 sentences)** |
| Studying the specific ecological and energy problems through the possibilities for improvement of characteristic performance of buildings through analysis of various parameters of climate, ecology, context, climate, environment, cultural heritage, traditions, site conditions and other significant aspects. |
| **SYLLABUS (brief outline and summary of topics, max. 10 sentences)** |
| Enabling students to engage in theoretical, research and practical work in the field of bioclimatic and environmental architecture. Exploring the different methodologies that contribute to the improvement of functional design, energy, environmental and economic performance of various types of buildings and urban plans.. Course content: Identifying and defining the specific parameters related to the design of buildings in the context of microclimate conditions, energy efficiency and rational use of energy, Specific aspects in the study of modern methods in the areas of urban planning and architectural design based on bioclimatic principles. Exploring the possibilities of renewable energy in the built environment. Analysis of principles, criteria and models in urban planning and architecture based on respect for mutual influences that occur between the natural and built environment in terms of specific locations. Experience and position of bioclimatic architecture in traditional and contemporary world architecture, the architecture of Europe, the Balkans and Serbia - examples. |
| **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** |