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| **UNIVERSITY OF NIŠ** | | | | | | |
| **Course Unit Descriptor** | | **Faculty** | | | Faculty of Occupational Safety in Niš | |
| **GENERAL INFORMATION** | | | | | | |
| Study program | | | | Environmental Engineering | | |
| Study Module (if applicable) | | | | / | | |
| Course title | | | | Bioclimatic Planning | | |
| Level of study | | | | ☐ Bachelor ☐ Master’s ☒ Doctoral | | |
| Type of course | | | | ☐Obligatory ☒ Elective | | |
| Semester | | | | ☒ Autumn ☐Spring | | |
| Year of study | | | | Second year | | |
| Number of ECTS allocated | | | | 10 | | |
| Name of lecturer/lecturers | | | | Jasmina Radosavljević | | |
| Teaching mode | | | | ☒Lectures ☐Group tutorials ☐ Individual tutorials  ☐Laboratory work ☐ Project work ☐ Seminar  ☐Distance learning ☐ Blended learning ☐ Other | | |
| **PURPOSE AND OVERVIEW (max. 5 sentences)** | | | | | | |
| *Knowing and understanding the problems of energy efficient design - bioclimatic planning with the ultimate goal of energy saving and environmental protection.* | | | | | | |
| **SYLLABUS (brief outline and summary of topics, max. 10 sentences)** | | | | | | |
| Site selection and planning (the analysis of geographic and climate conditions of the site; the analysis of the conditions of natural environment for the use of energy; identifying opportunities for the existing infrastructure; the analysis of the conditions of the built environment, etc.). Bioclimatic elements and planning. Location configuration, the orientation of energy‐ efficient buildings and urban planning. Orientation of energy efficient buildings and architectural design. The impact of wind on energy efficiency of buildings. Mutual relationship between the buildings. Buildings with passive solar systems. Energy saving and energy efficiency of buildings. Factors that contribute to global climate change and air pollution. | | | | | | |
| **LANGUAGE OF INSTRUCTION** | | | | | | |
| ☒ Serbian (complete course) ☐ English (complete course) ☐ Other \_\_\_\_\_\_\_\_\_\_\_\_\_ (complete course)  ☐Serbian with English mentoring ☐Serbian with other mentoring \_\_\_\_\_\_\_\_\_\_\_\_\_\_ | | | | | | |
| **ASSESSMENT METHODS AND CRITERIA** | | | | | | |
| **Pre exam duties** | **Points** | | **Final exam** | | | **points** |
| **Activity during lectures** |  | | **Written examination** | | |  |
| **Practical teaching**  **seminary work** | **2 x 50 = 100** | | **Oral examination** | | | **-** |
| **Teaching colloquia** |  | | **OVERALL SUM** | | | **100** |
| **\*Final examination mark is formed in accordance with the Institutional documents** | | | | | | |