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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 | Composite facade and roofing building systems |
| Level of study | Doctoral studies  |
| Type of course |  Elective |
| Semester  | Spring |
| 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)** |
| Achieving scientific capabilities in the process of designing facade and roof building systems in order to fulfill functional, technological and design requirement. |
| **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 independently conduct original research in the field of façade and roof systems of buildings. Typology of-composite multilayer cladding and roofing systems. Facade and roofing systems as elements of the building envelope - the fulfillment of functional requirements. External influences, effects and processes that govern a design requirement, especially from the standpoint of energy efficiency and building physics. Pitched and flat roofs; massive and lightweight carrying and carried facade systems. Roof and facade systems in the function of the energy gains. Functional and technological aspects of design and construction of various types of newly designed and existing revitalized, multi-layered facade and roof systems of buildings. |
| **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** |