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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 | SYNTHESIS STUDIO INDUSTRIAL BUILDINGS |
| Level of study | Integrated studies  |
| Type of course | Elective |
| Semester  | Autumn  |
| Year of study  | 5th  |
| Number of ECTS allocated | 10 |
| Name of lecturer/lecturers | Turnšek AJ Branko, Associate Professor |
| Teaching mode | Lectures Group tutorials Individual tutorials Project work Seminar Other |
| **PURPOSE AND OVERVIEW (max. 5 sentences)** |
| To synthetize the knowledge and skills developed in all previous courses on a single project. The course emphasizes the design integration of the building’s structural, aesthetical and environmental system.To master the design methodology of industrial buildings developing and working on very complex architectural program of industrial typological category. To broaden and apply the experiences and knowledge gained in previous architectural design and engineering courses.To simulate a professional experience by sketching and conceptualizing a project, comprising analysis of basic knowledge on transcendent issues. To develop the skills in the disciplines of schematic design, conceptualization, knowledge management, design development, and representation of the design intent.To develop skills in present, explain and defend an integration design proposal to fully convince an audience by using of own arguments and well developed graphics. |
| **SYLLABUS (brief outline and summary of topics, max. 10 sentences)** |
| Synthesis Studio is focused on putting together knowledge pieces from previous faculty courses. This is a project development course that emphasizes the integration of the basic elements of architectural, structural, environmental and other technologies for a large buildings with complex architectural program – science-technological parks, industrial parks, duty-free industrial zones… By designing a larger and more complex project from scratch, and it will be imperative to consider its program, site, topography, surrounding built environment, weather conditions and other important factors in gaining satisfying architectural design that integrate high-value aesthetical quality with comprehensive designs. Thematic discussion and lectures in Synthesis Studio also cover the following themes: featured contemporary buildings of same typology in the world and in the country; urban and architectural analysis; norms; environmental protection and design solutions; complex forms in industrial architecture, energy efficiency: positioning the industry, orientation, spatial disposition, materialisation, façade system, natural ventilating, landscaping, creative design solutions…  |
| **LANGUAGE OF INSTRUCTION** |
| Serbian (complete course)  |
| **ASSESSMENT METHODS AND CRITERIA** |
| **Pre exam duties** | **Points** | **Final exam** | **points** |
| **Activity during lectures** | **10** | **Written examination** |  |
| **Practical teaching** | **50** | **Oral examination** | **30** |
| **Teaching colloquia** | **10** | **OVERALL SUM** | **100** |
| **\*Final examination mark is formed in accordance with the Institutional documents** |