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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 | INDUSTRIAL BUILDINGS DESIGNING II |
| Level of study | Integrated studies  |
| Type of course | Obligatory  |
| Semester  | Spring |
| Year of study  | 3rd  |
| Number of ECTS allocated | 5 |
| Name of lecturer/lecturers | Branko Turnšek  |
| Teaching mode |  Lectures Group tutorials Individual tutorials Project work Seminar Other |
| **PURPOSE AND OVERVIEW (max. 5 sentences)** |
| To familiarize students with the outlines of the process of designing industrial complexes – manufacturing buildings and accompanying facilities. To understand the designing principles for industrial complexes and buildings of various types with emphasis on small enterprises and manufacturing industries. To develop the skills in analyzing and developing causal-consequential relations between the industry and its surrounding environment.To familiarize students with all phases of the design process: a design program analysis, site selecting process, urban parameters analysis, technical-technological requirements for industrial buildings typology; urban, architectural and structural systems and their specifics; designing accompanying facilities, working environment; and search for the shape and the form.  |
| **SYLLABUS (brief outline and summary of topics, max. 10 sentences)** |
| This thematic field covers industrial complexes and buildings designing. Students are introduced with the ground principles of design of industrial (manufacturing) buildings. Spatial composition of the complex (spatial distribution scheme). The basic elements of architectural design, dimensioning the industrial buildings. Forms and structural systems of production halls – low-rise and high-rise halls. Lighting and color in the industry. Ventilation. Industrial doors. Materialization of manufacturing spaces and designing a working ambience. Warehouses – functional organization and architectural form. Typology – distribution center, high-rise warehouses, cold storages. Buildings for the small enterprises. Industrial buildings designing – contemporary examples. Teaching course – lectures are interactive, a contemporary audio-visual equipment is applied, combining various methods (verbal lectures, targeted discussions, films, presentations of contemporary designs, solutions and equipment - domestic and from abroad). |
| **LANGUAGE OF INSTRUCTION** |
| Serbian (complete course)  |
| **ASSESSMENT METHODS AND CRITERIA** |
| **Pre exam duties** | **Points** | **Final exam** | **points** |
| **Activity during lectures** | **10** | **Written examination** | **20** |
| **Practical teaching** | **50** | **Oral examination** | **10** |
| **Teaching colloquia** | **10** | **OVERALL SUM** | **100** |
| **\*Final examination mark is formed in accordance with the Institutional documents** |