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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 I |
| Level of study | Integrated studies  |
| Type of course | Obligatory  |
| Semester  | Autumn  |
| Year of study  | 3rd  |
| Number of ECTS allocated | 5 |
| Name of lecturer/lecturers | Branko Turnšek |
| Teaching mode | Lectures Group tutorials Individual tutorials Project work 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)** |
| Industrial buildings: agricultural and manufacturing buildings - classification, allocation and site selection. Spatial and functional organization of an industrial complex; zoning within the complex and zones’ contents. Influential parameters for site selection and buildings’ spatial disposition. Building systems typology – advantages and disadvantages of various types. Transportation modality and traffic typology within the complex and in the buildings. Typology of production processes and causality with architectural and urban composition. Design analysis of a work post – classification and dimensioning. Workers facilities. Industrial emanations (noise, hazardous substances, vapors, dust, odors…). Environmental impact. Purification systems. 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** |