|  |
| --- |
|  **UNIVERSITY OF NIŠ** |
| **Course Unit Descriptor** | **Faculty**  | **Faculty of Civil Engineering and Architecture** |
| **GENERAL INFORMATION** |
| Study program  | Architecture |
| Study Module (if applicable) |  |
| Course title | STRUCTURAL SYSTEMS 1 |
| Level of study | Integrated studies  |
| Type of course | Obligatory  |
| Semester  | Spring |
| Year of study  | 2nd  |
| Number of ECTS allocated | 4 |
| Name of lecturer/lecturers | Dragan Kostic |
| Teaching mode | Lectures  |
| **PURPOSE AND OVERVIEW (max. 5 sentences)** |
| Introduction to the development of linear and space-surface structural systems and new possibilities of their construction in architecture. Training for the analysis of static and structural properties of selected structural systems, for the purpose of their rational application in specific cases. A systematic approach to the selection of structural system under given conditions. Coordination of architectonic and structural forming of buildings. |
| **SYLLABUS (brief outline and summary of topics, max. 10 sentences)** |
| Knowledge and skills applied to solving design and structural problems in design of large span structures.Concept of structural system and basic elements – 2 classesLinear carrying elements in plane and space: beam, arch, cantilever – 10 classesSpace-surface systems: folded, curved in one and two directions – 10 classesDome systems – 4 classesIntroduction to space grids and hanging systems – 4 classesDevelopment of technical drawings: linear structural systems – 14 classesDevelopment of technical drawings: space-surface structural systems – 14 classes |
| **LANGUAGE OF INSTRUCTION** |
| Serbian (complete course)  |
| **ASSESSMENT METHODS AND CRITERIA** |
| **Pre exam duties** | **Points** | **Final exam** | **points** |
| **Activity during lectures** |  | **Written examination** | **30** |
| **Practical teaching** | **20** | **Oral examination** | **30** |
| **Teaching colloquia** | **20** | **OVERALL SUM** | **100** |
| **\*Final examination mark is formed in accordance with the Institutional documents** |