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**BSc Architecture and Urban Planning**

**Syllabus**

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| **Subject** | **Principles of Structural Design: Reinforced Concrete, Steel And Timber Structures** | | | |
| Type | Semester | ECTS | Code |
| Obligative (O) | *5* | *6* | 30-BCD-361 |
| **Lecturer of the course** | Visar Krelani, PhD | | | |
| **Assistant of the Corsue** | Cand. Dr. Besian Sinani,  MSc. Arberesha Kastrati, | | | |
| **Aims and Objectives** | The basics of reinforced concrete structures, steel and wood enable the acquisition of basic knowledge for further study in the field of architecture and engineering;   * Understand the behaviour of structural / structural systems * Gain basic theoretical knowledge of design methods; * Gain insights into the concepts and simple calculations applicable in the early stages of the design process in order to select the appropriate structural system and materials, * Learn engineering language in order to support professional communication between peers and final structural design, * • Understand the basic aspects of concrete and reinforced concrete (BA), steel structures and timber structures. | | | |
| **Learning Outcomes** | The basics of reinforced concrete, steel and wood structures enable the acquisition of basic knowledge for further study in the field of architecture;   * Gaining theoretical knowledge of dimensioning methods; * Ability to visualize, identify and interpret the relationships between loads on structures provided by their planar projections; * Ability to apply engineering knowledge in architecture. | | | |