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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.
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| **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.
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