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| **Subject** | **MATERIALS IN ARCHITECTURE** |
| **Type** | **Semester** | **ECTS** | **Code** |
| MANDATORY (M) | 3 |  3 |  **30-MAR-255** |
| **Course Lecturer** | Dr. Muhamet Ahmeti |
| **Course Assistant** | Can.Driton Kryeziu, Dr.Visar Krelani |
|  **Course Tutor** |  |
| **Aims and Objectives** | * Achieve knowledge of the role and importance of building materials used in architecture.
* To study the basic technological and chemical properties, while thoroughly examining and analyzing the physic-technical properties: stone, ceramic products, aggregate, bonding materials (minerals, autoclaves, organic), mortar, concrete (lightweight, ordinary, heavy, composites), additives for concrete, wood and steel.
* Depending on the type of material, the advantages and disadvantages of sustainability and their use in everyday practice in construction and architecture are particularly emphasized.
* Analyzes and studies the most important materials applied in architecture, the positions of use of these materials, the positive and negative properties of their use.
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| **Learning Outcomes** | Through this module student will:* Familiarity with the basic properties and practical application of the main building materials used in everyday construction practice.
* Knowledge of the use of materials depending on the position of the constituent elements as well as the conditions of use of these materials,
* Familiarity with the method of selection, methods of examining the properties of materials applicable to architecture,
* Basic knowledge of the newest materials in architecture, smart materials, and areas of application of these materials, the use of nanao technology and the impact of this technology on the properties of materials and structures in general.
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