

SUSTAINABLE NEW BUILDING MATERIALS

Course Description

The course explains terms sustainability and sustainable development, which includes a number of aspects such as cultural and socio-economic aspects, structural design of buildings, new environmental friendly and durable materials and the life cycle of buildings. All stated starts with sustainable new materials. It is very important to plan from the start and build sustainable building materials into the initial design that can provide durability and easier maintenance of the structures, mainly housing and public buildings. In addition, sustainable new materials can lead to cleaner environment since they are consuming resources considered as waste.

Course Content

- Meaning and possibilities of sustainability in materials and constructions
- New and sustainable new materials in construction
- Presentation of best practices and possible applications in our environment
- Need for mind shift in building design, construction and maintenance.

Pre-requisites

Basic knowledge of construction materials

Target group

- Students
- Young professionals

Learning objectives

- Clear understanding of performances of the sustainable materials, their use and possibilities in construction industry as well as maintenance requirements,
- Ability to describe and discuss proper installation of building materials and their effectiveness in interior and exterior application
- Wider understanding of use of sustainable materials and their effects on sustainability of the building, environment and investment





Teacher

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