



1. General information about course

Title of the course

- Sustainable new building materials

Professor:

- Merima Šahinagić - Isović (and Marko Čećez)

Institution:

- UNMO

E-mail

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2. Description of the course

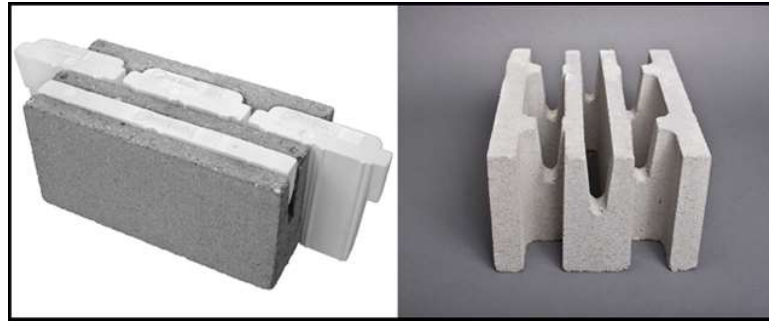
1. Sustainable building materials



2. New building materials



3. Why and how



6. Conclusions

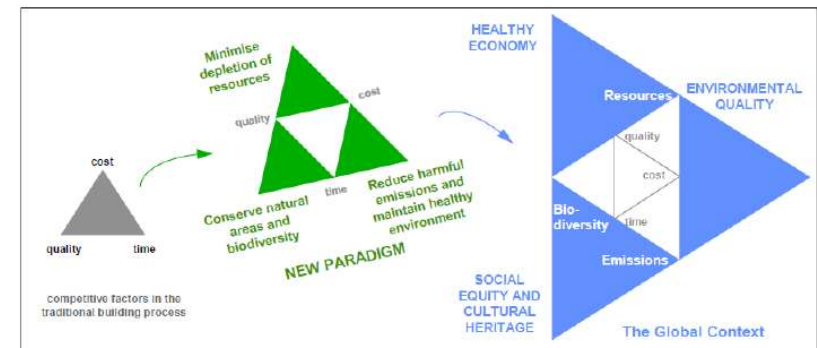


Douglas Mulhall, Michael Brungart & Katja Hanen

5. Good practice



4. Challenges of sustainable construction in a global context





3. Target group and prerequisites

Target group/Learners profile

- Students of the II cycle - Faculty of civil engineering and/or architecture
- Architects, civil engineers, conservators, highly qualified workers in civil engineering industry.

Prerequisites (required pre-knowledge and experiences)

- Good knowledge of the traditional materials and their properties:
- Knowledge on building processes



4. Learning outcomes

The students will acquire basic knowledge on specifications and relation to building standards, passive building requirements and seismic requirements.

The student will be able to:

- understand performances of the materials, their use and possibilities in construction industry as well as maintenance requirements
- describe and discuss proper installation of building materials and their effectiveness in interior and exterior application
- define life cycle of new materials
- illustrate positive and negative sides of use of new materials for building new buildings
- analyze advantages for use of new materials compared to traditional ones
- demonstrate and advocate for use of sustainable new materials in construction and building design



5. Training and learning methods

- Reading materials (given to students)
- Prepared individual tasks for each student - Individual research (development of learning through practice as well as critical thinking, research and managing data skills) – tasks will be prepared based on student's professional background. Work will be supervised by the professor
- Outcomes of the course: each student will write a project (individual project) (development of learning through argumentation skills) and make posters (and power point presentation)