Engineering and Architectural Heritage

This course presents the basic concepts of structural engineering and its application for the preservation of architectural heritage.

It includes engineering developments of the main cultures, and states the general guidelines for the intervention and conservation of heritage infrastructure. It also presents the main techniques for inspection, diagnosis and intervention of heritage infrastructure, including data processing tools and structural analysis options.

The course aims at:
• Introducing the students to the area of conservation and rehabilitation of historical structures.
• Presenting the history and developments of architecture and engineering in the most important ancient civilizations.
• Presenting the basics on structural assessment and available techniques for heritage buildings.
• Applying the techniques and concepts learned to a field case study in a historical monument.

The work in the course will also improve students’ skills such as writing (report writing), speaking (for papers) and ability to work in multidisciplinary teams which properly fit with the ABET accreditation requirements.

Code: CIV320
Credits: 3.5
Instructor:

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