



DOCTORAL
SCHOOL
AT GDAŃSK
UNIVERSITY
OF TECHNOLOGY

Course: Challenges and perspectives in contemporary architecture and urbanism

Teacher: prof. Giovanna Acampa, Kore University of Enna
Teaching hours: 15 h

Prerequisites: The course is primarily meant for all PhD students at Gdansk University of Technology.

It is compulsory for PhD students assigned to Architecture and Urbanism tracks at Doctoral School at Gdańsk University of Technology

Course outline

Content

This course is all about getting the student to open a discussion on the quality in Architecture. Starting from the criteria used in architectural competitions to evaluate quality, the workshop aims to investigate multi-criteria analysis. These methods examine “convenience” in the implementation of architectural projects, using more than a single comparison scale, like the monetary one; they take into consideration multiple factors such as environmental, cultural, social and economic which enable to measure the impacts of projects in the context in which they are created.

General topics coverage:

1. European policies for quality in architecture
2. Classification of models of AMC
3. Practice with multi-criteria analysis

Teaching mode

The teaching method is basically a hands-on course based on readings rather than lectures. Elementary computer skills are useful as well as a laptop per person. During the course students will be asked to discuss the meaning of quality in architecture.

The course is entirely delivered in English.

Readings: *Based on study of documentation and own research*

1. *Presentation of European guidelines,*
2. *Criteria used in architectural competitions to evaluate quality.*
3. *Introduction to Frequency Analysis, Electre and the Analytic Hierarchy Process*

Practice:

Experimental part on Electre and Analytic Hierarchy Process. The work will be carried out in interdisciplinary groups of 2-3 students each.

Examination

Discussing/commenting about the project carried out.

Fundamental readings:

L.Saaty, "How to make a decision: the analytic hierarchy process", in European Journal of Operational Research 48. 1990

V.Ferretti, M. Bottero, G.Mondini, "Decision making and cultural heritage: An application of the Multi-Attribute Value Theory for the reuse of historical buildings "in Jurnal of cultural Heritage 2014

Multi-criteria analysis: a manual - Department for Communities and Local Government: London - January 2009