Course guide
210739 - IAA - Environmental Impact of Architecture

Unit in charge: Barcelona School of Architecture
Teaching unit: 753 - TA - Department of Architectural Technology.
Degree: MASTER'S DEGREE IN ADVANCED STUDIES IN ARCHITECTURE-BARCELONA (Syllabus 2015). (Optional subject).
Academic year: 2022  ECTS Credits: 5.0  Languages: Spanish

LECTURER
Coordinating lecturer: ALBERTO CUCHÍ BURGOS
Others: Primer quadrimestre:
ALBERTO CUCHÍ BURGOS - AEMA1

TEACHING METHODOLOGY
Go to Spanish or Catalan version

LEARNING OBJECTIVES OF THE SUBJECT
Go to Spanish or Catalan version

STUDY LOAD

<table>
<thead>
<tr>
<th>Type</th>
<th>Hours</th>
<th>Percentage</th>
</tr>
</thead>
<tbody>
<tr>
<td>Hours large group</td>
<td>15,0</td>
<td>12.00</td>
</tr>
<tr>
<td>Hours small group</td>
<td>30,0</td>
<td>24.00</td>
</tr>
<tr>
<td>Self study</td>
<td>80,0</td>
<td>64.00</td>
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Total learning time: 125 h
CONTENT

**Description:**
Relations between sustainability and architecture. The perception of edges. The definition of sustainability. The Brundtland report. Sustainability and economy. Physic sustainability. The necessary condition. Material flows on architecture. Domestic residues. Materials of construction. The energy. The water. Sustainability measures. Furthermore, there are two more special sessions:
- In the first one, every student must propose the work that he is going to execute during the three weeks course.
- In the second one, the bibliography of the course is presented

**Specific objectives:**
To contribute in giving a definition of sustainable architecture based on the theoretical development created by the statement of the Brundtland report. To analyze the main characteristics of the resulting architecture and the investigation fields ready to developed.
The main objective is to make every participant able of reaching a perfect control of the analysis and evaluation of constructive behaviour in architecture, to finally evaluate its environmental impact. At the same time, it's considered important to use properly techniques that fit on every case presented in the course.

**Full-or-part-time:** 125h
Theory classes: 15h
Laboratory classes: 30h
Self study : 80h

**GRADING SYSTEM**
Continuous evaluation (%) Final evaluation (%)
SE05 Continuous evaluation 20
SE08 Delivered work marks 60
SE010 Projects evaluation 20
(Evaluation system combination)

Continuous evaluation of accomplished work, with a 20% for course's work, 50% for final work and an additional 30% for attitude and expression capacity during the whole academic phase of the course.

Continuous telematic evaluation
In online teaching situations, continuous assessment will be carried out synchronously and asynchronously by the means established by the University and the School, with a periodic record of academic activity through submissions, forums, questionnaires or any other means facilitated by the Atenea platform, or the alternatives provided to the teaching staff. In the situations in which this telematic teaching is a product of face-to-face teaching that has already begun, or for questions of extra-academic order, the changes in the weightings or regular control systems of the teaching will be communicated in detail to all students by the Athena of each subject.

Telematic final evaluation
If the continuous telematic evaluation is not positive, a second evaluation can be carried out, which will consist of a final test of a global nature in telematic format that will be established in accordance with the criteria of the professor responsible and the media and ICTs provided by the University or School.

The measures for adaptation to non-classroom teaching will be implemented in accordance with the criteria of ICT security and personal data protection to ensure compliance with the legislation on Personal Data Protection (RGPD and LOPDGDD)
BIBLIOGRAPHY

Basic:

Complementary: