210739 - IAA - Environmental Impact of Architecture

Coordinating unit: 210 - ETSAB - Barcelona School of Architecture
Teaching unit: 753 - TA - Department of Architectural Technology
Academic year: 2019
Degree: MASTER’S DEGREE IN ADVANCED STUDIES IN ARCHITECTURE-BARCELONA (Syllabus 2015).
ECTS credits: 5

Teaching staff
Coordinator: 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>Total learning time: 125h</th>
<th>Hours large group: 15h</th>
<th>12.00%</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Hours medium group: 0h</td>
<td>0.00%</td>
</tr>
<tr>
<td></td>
<td>Hours small group: 30h</td>
<td>24.00%</td>
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<tr>
<td></td>
<td>Guided activities: 0h</td>
<td>0.00%</td>
</tr>
<tr>
<td></td>
<td>Self study: 80h</td>
<td>64.00%</td>
</tr>
</tbody>
</table>
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Content

<table>
<thead>
<tr>
<th>title english</th>
<th>Learning time: 125h</th>
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<tbody>
<tr>
<td></td>
<td>Theory classes: 15h</td>
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<tr>
<td></td>
<td>Laboratory classes: 30h</td>
</tr>
<tr>
<td></td>
<td>Self study: 80h</td>
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</tbody>
</table>

Description:
Relations between sustainability and architecture. The perception of edges. The definition of sustainability. The Bruntland 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 Bruntland 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.

Qualification system

<table>
<thead>
<tr>
<th>Continuous evaluation (%)</th>
<th>Final evaluation (%)</th>
</tr>
</thead>
<tbody>
<tr>
<td>SE05 Continuous evaluation</td>
<td>20</td>
</tr>
<tr>
<td>SE08 Delivered work marks</td>
<td>60</td>
</tr>
<tr>
<td>SE010 Projects evaluation</td>
<td>20</td>
</tr>
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</table>

(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.
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Bibliography

Basic:


Complementary: