210741 - EC - Energy and Comfort

Coordinating unit: 210 - ETSAB - Barcelona School of Architecture
Teaching unit: 753 - TA - Department of Architectural Technology
Academic year: 2018
Degree: MASTER'S DEGREE IN ADVANCED STUDIES IN ARCHITECTURE-BARCELONA (Syllabus 2015). (Teaching unit Optional)
ECTS credits: 5
Teaching languages: Spanish

Teaching staff
Coordinator: ANTONIO ISALGUE BUXEDA
Others:

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:</th>
<th>15h</th>
<th>12.00%</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Hours medium group:</td>
<td>0h</td>
<td>0.00%</td>
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<tr>
<td></td>
<td>Hours small group:</td>
<td>30h</td>
<td>24.00%</td>
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<tr>
<td></td>
<td>Guided activities:</td>
<td>0h</td>
<td>0.00%</td>
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<tr>
<td></td>
<td>Self study:</td>
<td>80h</td>
<td>64.00%</td>
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</table>
title english

Learning time: 125h
- Theory classes: 15h
- Laboratory classes: 30h
- Self study: 80h

Description:

Specific objectives:
To improve knowledge foundations necessary to evaluate the environmental comfort of architectonic spaces, including lighting, acoustics and climatic aspects combined. The main point is to integrate, in a unique doctrine, different scientific fields usually disconnected; with the objective to obtain a global system of knowledge and evaluation of the energetic space in the buildings and other architectonic and urban spaces. At the same time, it is crucial to consider the relation between environmental sensation and perception, by opening a new way to the aesthetic consideration of the energetic phenomena on architecture.

Qualification system

<table>
<thead>
<tr>
<th>Evaluation</th>
<th>Continuous evaluation (%)</th>
<th>Final evaluation (%)</th>
</tr>
</thead>
<tbody>
<tr>
<td>SE02 Oral presentations</td>
<td></td>
<td>30</td>
</tr>
<tr>
<td>SE08 Delivered work marks</td>
<td></td>
<td>50</td>
</tr>
<tr>
<td>SE09 Individual practical exercises</td>
<td></td>
<td>20</td>
</tr>
</tbody>
</table>

Continuous evaluation of accomplished work during the course, with a 50% for course's work, 20% for the final work and an additional 30% for the capacity and improvement of the scientific communication.

Bibliography

Basic:

Complementary: