210741 - EC - Energy and Comfort

**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). (Teaching unit Optional)  
**ECTS credits:** 5  
**Teaching languages:** Spanish

### Teaching staff

**Coordinator:** JUDIT LÓPEZ BESORA  
**Others:** Segon quadrimestre: JUDIT LÓPEZ BESORA - AEMA2

### Teaching methodology

Go to Spanish or Catalan version

### Learning objectives of the subject

Go to Spanish or Catalan version

### Study load

| Total learning time: 125h | Hours large group: 15h | 12.00% | Hours medium group: 0h | 0.00% | Hours small group: 30h | 24.00% | Guided activities: 0h | 0.00% | Self study: 80h | 64.00% |
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Content

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<tr>
<th>title english</th>
<th>Learning time: 125h</th>
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<tr>
<td></td>
<td>Theory classes: 15h</td>
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<td>Laboratory classes: 30h</td>
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<td>Self study: 80h</td>
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**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>Continuous evaluation (%)</th>
<th>Final evaluation (%)</th>
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<tr>
<td>SE02 Oral presentations</td>
<td>30</td>
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<tr>
<td>SE08 Delivered work marks</td>
<td>50</td>
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<tr>
<td>SE09 Individual practical exercises</td>
<td>20</td>
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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:**