210774 - PM - Materiality and Project

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 languages: English

Teaching staff
Coordinator: ORIOL PONS VALLADARES
Others: Segon quadrimestre:
ORIOL PONS VALLADARES - CP2

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>
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<tr>
<td></td>
<td>Hours small group: 30h</td>
<td>24.00%</td>
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<td></td>
<td>Guided activities: 0h</td>
<td>0.00%</td>
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<tr>
<td></td>
<td>Self study: 80h</td>
<td>64.00%</td>
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</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>
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<td></td>
<td>Self study : 80h</td>
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**Description:**
The subject Materiality and Project studies and analyzes architectonical issues influenced by building technology and materiality.

The following content will be developed:

- Low Hard- High Soft. Low technology concept understood as the sustainability of the materials used and the new design and production tools.
- The materials and technologies in the contemporary Architecture.
- The architecture shapes and the "buildability" of them
- The modern trends of industrial construction; the advanced craftsman, the new tools like NCS, the 3D elements off site and the joint of them on site.
- The skins of the architecture and their performances but also the appearance and their capacity of spread emotions
- The structure like organizer of the architectural spaces.

This course will be explained in several thematic lectures integrating the theory, the practical cases and the discussion. In many lectures will take part the principal professors of the course but also guest lecturers. One or two visits to interesting buildings of Barcelona will be organised.

**Specific objectives:**
This course explores the relationship between the building technology and the project process, choosing and analyzing subjects on architecture which are very influenced by technological and contemporary concepts.

More in-depth analysis of technology as a design tool as well as his capacity to generate and express architecture.

At the end of the course, the student must be able to interrelate technology and project, improving his design skills. The student will have acquired basic research knowledge in the technology and building materials field.

**Qualification system**

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<tr>
<th></th>
<th>Continuous evaluation (%)</th>
<th>Final evaluation(%)</th>
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</thead>
<tbody>
<tr>
<td>SE02 Oral presentations</td>
<td>25</td>
<td>25</td>
</tr>
<tr>
<td>SE03 Works and reports</td>
<td>50</td>
<td>50</td>
</tr>
<tr>
<td>SE05 Continuous evaluation</td>
<td>25</td>
<td>25</td>
</tr>
</tbody>
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The course is organized as a seminar and workshop. A minimum of 80% attendance at classes is required.

The students will develop along the semester a research and propositive work which will be presented by them in a public exposition.
Bibliography

Basic:


