Learning objectives of the subject

Be able to:

- Applying resources to critical analysis of the progress of technology architecture in new materials, techniques and building systems, and environmental conditioning.
- Implement the new knowledge in the field of research and professional advanced architectural technology
- Deepen knowledge related to technological innovation, particularly in sustainable construction in the industrialization of construction, environmental conditioning systems of buildings, and digital techniques of design and production material.
## 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>
</tr>
</tbody>
</table>
## Content

<table>
<thead>
<tr>
<th><strong>title english</strong></th>
<th><strong>Learning time:</strong> 125h</th>
</tr>
</thead>
<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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<tr>
<td></td>
<td>Self study: 80h</td>
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### Description:

1. Diachronic evolution of architectural interior space technology, recognizing vectors evolution.
2. Descriptive analysis of the advanced technical requirements that currently exist in the paving and screeds: recognition in real buildings in operation.
3. Descriptive analysis of the new techniques that are currently applied on floors and screeds: recognition by benchmarking.
4. Descriptive analysis of commissioning new work processes currently applied on floors and screeds: recognition in real works.
5. Descriptive analysis of the advanced technical requirements that currently exist in the walls and interior partitions: recognition in real buildings in operation.
6. Descriptive analysis of the new techniques that are currently applied on interior walls and partitions: recognition by benchmarking.
7. Descriptive analysis of commissioning new work processes currently applied on interior walls and partitions: recognition in real works.
8. Descriptive analysis of the advanced technical requirements that currently exist in suspended ceilings: recognition in real buildings in operation.
9. Descriptive analysis of new techniques currently applied in false ceilings: recognition by benchmarking.
10. Descriptive analysis of commissioning new work processes currently applied in false ceilings: recognition in real works.
11. Detection current development opportunities in architectural innovation applied indoors.
13. Preparation and publication of communication supports innovation proposals.
14. Technical innovation proposals before juries and specialized audiences.

### Specific objectives:

1. Advanced knowledge of the technical, formal and informal demands, which currently pose the interior spaces of architecture.
2. Understanding of advanced process implementing own construction work and refurbishment of the interior architecture.
3. Understanding phenomena advanced aging behavior and actual construction elements and conditioning the interior space of architecture.
4. Critical knowledge of new construction technologies and packaging that can be applied soon in the projects of interior architecture.
5. Training to address its technical innovation and product development, applied to interior architecture.
Evaluation system

Continuous assessment throughout the course in successive assessment activities, consisting of:

- WORK STUDY, INDIVIDUAL COOPERATIVE regime. Each student joins a team of 3 people and develops a planned three roles (observation, product, work). This role requires the public to submit a job every 3 weeks (involving quantitative assessment of the performance in the final score is 75%).

- Development team (3 people). Each team will present to the public:
  - a book or/and
  - A material or process innovation or/and
  - The results of a measurement campaign

(Involving quantitative assessment of this final assessment of the performance is 25%)

- Attendance at conferences and visits is mandatory and will be made, whenever possible, within hours of the course. (Involving quantitative assessment of this can weight the final assessment till 10%)

Continuous assessment:
Continuous assessment will be carried out on the basis of the work to develop by the student during the course through the delivery of jobs or the realization of written or/and oral tests, according to the criteria and timetable to be established.

Final assessment:
If the results of the continuous assessment are not positive, it will be possible to perform a second evaluation which will consist in a global final test that can consist in a written or oral exam or the delivery of jobs, in accordance with the criterion of the responsible teachers. To pass the course is essential for students to be presented to all the assessment tests.

Bibliography

Basic:


Complementary:

AENOR Normas de producto.

Others resources:

Hyperlink

Intranet Docent
https://atenea.upc.edu/moodle/login/index