210742 - AA - Environmental Assessment

Coordinator 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: CARLOS ALONSO MONTOLÍO
Others: Segon quadrimestre:
CARLOS ALONSO MONTOLÍO - AEMA2
JAIME ROSET CALZADA

Learning objectives of the subject

Study load

<table>
<thead>
<tr>
<th>Total learning time: 125h</th>
<th>Hours large group:</th>
<th>15h</th>
<th>12.00%</th>
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<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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<td></td>
<td>Guided activities:</td>
<td>0h</td>
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<td></td>
<td>Self study:</td>
<td>80h</td>
<td>64.00%</td>
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Learning time: 125h
- Theory classes: 15h
- Laboratory classes: 30h
- Self study: 80h

Description:
Evaluation of environmental, thermal, acoustic and lighting phenomena on architecture. Possible systems: of measurement (punctual and continuous; from field or laboratory) and of simulation (calculation, simples, simplified, elaborated). Physical subjects with possible applications in architecture and their relation with the users perception. Variables measurement and possible relations. Measurement appliances: appliances limit. Operation and good use foundations. The survey as a mean for opinions. Developed measurement program. Behaviour simulations: calculation limits. Operation and good use of calculation programs. Programs to use.

Specific objectives:
To strengthen a theoretical knowledge of environmental results on architecture. To be capable of confirming data obtained from external sources, for instance the results of the building’s behaviour. To learn to do, personally, simulations and measurements of their results, and in this way being able to verify the tools good operation. To know the calculation foundations of informatics systems, with the aim of learning their limitations and possibilities. To learn to perform punctual and registered measurements, with the objective of confirming their coincidence with the existent reality.

Qualification system

<table>
<thead>
<tr>
<th>Content</th>
<th>Continuous evaluation (%)</th>
<th>Final evaluation (%)</th>
</tr>
</thead>
<tbody>
<tr>
<td>SE04 Testing and reporting of experimental work</td>
<td>40</td>
<td></td>
</tr>
<tr>
<td>SE05 Continuous evaluation</td>
<td>20</td>
<td></td>
</tr>
<tr>
<td>SE08 Delivered work marks</td>
<td>20</td>
<td></td>
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</table>

Continuous evaluation using simulations and measurements performed during the course. The final score will be a result from the works of the course (40%), the measurements (40%) and the synthesis capacity and the critic vision acquired (20%).

Bibliography

Basic:

Complementary: