# 210138 - RA IV - Architectural Representation IV

<table>
<thead>
<tr>
<th>Coordinating unit:</th>
<th>210 - ETSAB - Barcelona School of Architecture</th>
</tr>
</thead>
<tbody>
<tr>
<td>Teaching unit:</td>
<td>752 - RA - Departamento de Representación Arquitectónica</td>
</tr>
<tr>
<td>Academic year:</td>
<td>2018</td>
</tr>
<tr>
<td>Degree:</td>
<td>DEGREE IN ARCHITECTURE STUDIES (Syllabus 2014). (Teaching unit Compulsary)</td>
</tr>
<tr>
<td>ECTS credits:</td>
<td>5</td>
</tr>
<tr>
<td>Teaching languages:</td>
<td>Catalan, Spanish</td>
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</tbody>
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## Teaching staff

**Coordinator:**
- Primer quadrimestre: JOAQUIN MANUEL REGOT MARIMON
- Segon quadrimestre: ANDRES DE MESA GISBERT

**Others:**
- Primer quadrimestre:
  - ANDRES DE MESA GISBERT - 12
  - GUSTAVO JOSE NOCITO MARASCO - 12
  - JOAQUIN MANUEL REGOT MARIMON - 12
- Segon quadrimestre:
  - ANDRES DE MESA GISBERT - 31, 41
  - GUSTAVO JOSE NOCITO MARASCO - 31, 41
  - JOAQUIN MANUEL REGOT MARIMON - 31, 41

## Degree competences to which the subject contributes

### Basic:
- CB1. Translation from Spanish slope
- CB2. Translation from Spanish slope
- CB3. Translation from Spanish slope
- CB4. Translation from Spanish slope
- CB5. Translation from Spanish slope

### Specific:
- ET11. Translation from Spanish slope
- ET12. Translation from Spanish slope
- ET13. Translation from Spanish slope
- ET14. Translation from Spanish slope
- ET19. Translation from Spanish slope
- ET2. Translation from Spanish slope
ET3. Translation from Spanish slope
ET6. Translation from Spanish slope
ET9. Translation from Spanish slope
EP11. Translation from Spanish slope
EP14. Translation from Spanish slope
EP15. Translation from Spanish slope
EP16. Translation from Spanish slope
EP18. Translation from Spanish slope
EP19. Translation from Spanish slope
EP2. Translation from Spanish slope
EP20. Translation from Spanish slope
EP21. Translation from Spanish slope
EP22. Translation from Spanish slope
EP24. Translation from Spanish slope
EP3. Translation from Spanish slope

Generical:
CG4. Translation from Spanish slope
CG5. Translation from Spanish slope
CG7. Translation from Spanish slope
CG2. Translation from Spanish slope

Transversal:
CT1. Translation from Spanish slope
CT3. Translation from Spanish slope
CT4. Translation from Spanish slope
CT5. Translation from Spanish slope
CT6. Translation from Spanish slope
CT7. Translation from Spanish slope
CT2. Translation from Spanish slope

**Teaching methodology**

<table>
<thead>
<tr>
<th>Classroom activities</th>
<th>Type of group</th>
<th>Week hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>T Lectures</td>
<td>Great (50/80)</td>
<td>1</td>
</tr>
<tr>
<td>P Practice</td>
<td>Small (10/30)</td>
<td>3</td>
</tr>
<tr>
<td>AD Tutorials</td>
<td>small group Tutorial (&gt;10)</td>
<td>12.5 h/ semester</td>
</tr>
</tbody>
</table>

Personal work: 70h/semester

**Learning objectives of the subject**

Assimilate the necessary knowledge for the different stages involved in the construction processes of buildings, from the initial idea to the final required documentation for the building construction.

Achieve the level of solvency required to make a presentation of the obtained results in the graphic and alphanumeric processing of architectural projects.

Know the environmental parameters that influence the energy efficiency of buildings through the use of tools that enable the analysis of the features required for sustainable construction.

Learn to use computer graphics resources necessary for the development of technical documentation of architectural construction processes.

Have capacity to approach a teamwork and collaborate in its resolutions and discussions.

**Study load**

<table>
<thead>
<tr>
<th>Total learning time: 125h</th>
<th>Hours large group: 11h</th>
<th>8.80%</th>
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<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: 32h</td>
<td>25.60%</td>
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<tr>
<td></td>
<td>Guided activities: 12h</td>
<td>9.60%</td>
</tr>
<tr>
<td></td>
<td>Self study: 70h</td>
<td>56.00%</td>
</tr>
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</table>
THE USE OF PARAMETRIC SYSTEMS AS RESOURCES OF DE BUILDING PROCESS

Degree competences to which the content contributes:

Description:
Knowledge of the tools necessary to implement work with objects in the development of architectural designs.

Control of architectural elements in global information systems of buildings.

Generation of architectural components for its integration into metric and construction control systems.

Solution to the implementation of buildings into natural environments. Graphic control of the land topography.

Introduction to free-form geometry parametric systems applied to architectural design. Application of parametric control tools to the resolution of architectural forms.

Interaction of different parametric tools to give versatility and to enable the modification of results in construction processes.

Basic knowledge in the management and research of construction processes.

Knowledge about the possibilities of exchange of alphanumeric and graphical information applied to calculation of technical processes and representation of geometric forms involved in architectural projects.

Qualification system

<table>
<thead>
<tr>
<th>Systems Assessment</th>
<th>Continuous Assessment</th>
<th>Final assessment</th>
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<tbody>
<tr>
<td>Long reply exercises</td>
<td>70%</td>
<td>80%</td>
</tr>
<tr>
<td>Short reply Tests</td>
<td>20%</td>
<td>20%</td>
</tr>
<tr>
<td>Work and individual exercises</td>
<td>10%</td>
<td></td>
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</table>

Regulations for carrying out activities

In order to carry out the assessment tests, it will be necessary to use a laptop computer with wi-fi connection capable of running graphic information systems.

Bibliography