Course guide
290623 - TAPV14 - TAP Housing and Technique

Unit in charge: Vallès School of Architecture
Teaching unit: 735 - PA - Department of Architectural Design.

753 - TA - Department of Architectural Technology.

Degree: DEGREE IN ARCHITECTURE STUDIES (Syllabus 2014). (Compulsory subject).

Academic year: 2022 ECTS Credits: 12.0 Languages: Catalan, Spanish

LECTURER

Coordinating lecturer: Salvadó Aragonès, Núria

Others:
Tudo Gali, Roger
De Rivera Marinel·Lo, Inés
Godoy Muñoz, Alfonso De Jesús
Pradesaba Fargas, Josep
Palmero, Maria Fabiana

DEGREE COMPETENCES TO WHICH THE SUBJECT CONTRIBUTES

Specific:
EP4G. The ability to conceive, execute and develop basic and detailed designs, sketches and drafts (T).
EP1G. An aptitude for removing architectural barriers (T).
EP6G. The ability to design, practise and implement construction site management (T).
EP7G. The ability to design functional programmes for buildings and urban spaces (T).
ET1G. An aptitude for conceiving, calculating, designing and executing foundation solutions and integrating them into existing buildings and urban areas (T).
ET7G. The ability to conceive, calculate, design and implement systems for the division of interiors, carpentry, stairs and other finishing work and integrate them into existing buildings and urban areas (T).
ET6G. The ability to conceive, calculate, design and erect building structures and integrate them into existing buildings and urban areas (T).
ET8G. The ability to conceive, calculate, design and erect enclosures, roofs and other structural work and integrate them into existing buildings and urban areas (T).
EP18G. Adequate knowledge of methods for studying social needs, quality of life, habitability and basic housing programmes.
EP20G. Adequate knowledge of architectural, urban planning and landscaping traditions in Western culture, as well as their technical, climatic, economic, social and ideological foundations.
EP22G. Adequate knowledge of the relationship between cultural patterns and the social responsibilities of architecture.
EP27G. Knowledge of feasibility analysis and the supervision and coordination of integrated projects.
ET9G. The ability to conceive, calculate, design and install water supply, sewage, heating and air conditioning systems and integrate them into existing buildings and urban areas (T).

Generical:
CE5. The ability to understand the relationship between people and buildings, and between buildings and their environment, and the necessity of relating buildings to the spaces between them in view of needs and human scale.
CE1. An aptitude for creating architectural projects that meet both aesthetic and technical demands.

TEACHING METHODOLOGY
LEARNING OBJECTIVES OF THE SUBJECT

STUDY LOAD

<table>
<thead>
<tr>
<th>Type</th>
<th>Hours</th>
<th>Percentage</th>
</tr>
</thead>
<tbody>
<tr>
<td>Self study</td>
<td>168.0</td>
<td>56.00</td>
</tr>
<tr>
<td>Hours large group</td>
<td>20.0</td>
<td>6.67</td>
</tr>
<tr>
<td>Hours small group</td>
<td>112.0</td>
<td>37.33</td>
</tr>
</tbody>
</table>

Total learning time: 300 h

CONTENTS

**Syllabus**

**Description:**
The course deals exclusively with housing. It covers all the variables that influence the qualities of a dwelling, and those that arise when these qualities have to be achieved in a building which includes a number of flats. If in the first case we must address the needs—physical and psychological—of the users, in the second we must pay attention to the conditions—formal and technical—imposed by the repetition of units and the size of the building. The course maintains a double commitment: first, the utmost respect for the people, to all his needs and sensibilities; and on the other hand, a like respect for the environment, recognizing the importance that the architecture of housing has in the formal and functional definition of urban systems.

**Specific objectives:**
1. Comfort. Definition and conditions.
2. Housing and environment: architecture as elaboration of landscape.
3. The building as a system: integration of formal, functional and constructive qualities.
4. The house as a system of ‘areas’: the activities.
5. The house as itinerary: circulations.
6. Distribution or organization? The design of the spaces and the design of relationships.
7. Flexibility and adaptability: design for change.
8. Equipment and furniture: immediate forms.
11. Service spaces and technical systems.

**SPRING SEMESTER:**
1. Understanding the building environment. Dealing with its urban context, formal composition (order), spaces and construction.
3. Housing and environment: architecture as a landscape generator. The building as an active agent of the urban space.
6. The structure: constructing the support. Alterations and continuities with the existing.
8. Technical services and systems. Formal integration into the building.

**Full-or-part-time:** 132h

Theory classes: 20h
Laboratory classes: 112h
BIBLIOGRAPHY

Basic:

Complementary: