

## Course guide

### 290634 - TAPVII14 - Architecture and Design Workshop VII

Last modified: 05/07/2024

**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:** 2024 **ECTS Credits:** 12.0 **Languages:** Catalan, Spanish

#### LECTURER

**Coordinating lecturer:** SANTIAGO SOTO PI

**Others:** LUIS PARRAMON ELORZA - PTB, PTBM  
SANTIAGO SOTO PI - PTB, PTBM

#### DEGREE COMPETENCES TO WHICH THE SUBJECT CONTRIBUTES

##### Specific:

EP4G. The ability to conceive, execute and develop basic and detailed designs, sketches and drafts (T).  
EP10G. The ability to carry out building safety, evacuation and protection projects (T).  
EP1G. An aptitude for removing architectural barriers (T).  
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.  
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).  
EP2G. An aptitude for solving passive environmental conditioning, including thermal and acoustic insulation, climate control, energy performance and natural lighting (T).  
EP17G. Adequate knowledge of methods for studying symbolisation processes, practical functions and ergonomics.

##### Generical:

CE1. An aptitude for creating architectural projects that meet both aesthetic and technical demands.  
CE9. Adequate knowledge of the physical problems, technologies and functions of buildings so as to provide them with comfortable indoor conditions and protection from climate factors.  
CE4. Adequate knowledge of urbanism, planning and the techniques that are applied in the planning process  
CE7. Knowledge of the methods for research and preparation of construction projects.

#### TEACHING METHODOLOGY

#### LEARNING OBJECTIVES OF THE SUBJECT

FROM CONCEPT TO MATERIALITY

#### STUDY LOAD

| Type              | Hours | Percentage |
|-------------------|-------|------------|
| Hours small group | 112,0 | 37.33      |
| Self study        | 168,0 | 56.00      |
| Hours large group | 20,0  | 6.67       |



Total learning time: 300 h

## CONTENTS

### Syllabus

#### Description:

1. The shape as a result of design decisions and techniques.
2. Adaptation to the place and the program. Landscape topographic, geotechnical, regulatory constraints.
3. Resolution of the program according to formal, energetic and structural strategies.
4. The restriction as a motor for the project.

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

Theory classes: 19h 40m

Laboratory classes: 112h 20m

## GRADING SYSTEM

## BIBLIOGRAPHY

### Basic:

- Argan, G.C. Historia del Arte. Madrid: Akal, 1991. ISBN 8446000342.
- Rubert de Ventós, Xavier, 1039-. El Arte ensimismado. Ariel, 1963.
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- Summerson, John, 1904-1992. El lenguaje clásico de la arquitectura. Barcelona: Gustavo Gili, 1978.
- Ching, Frank, 1943-. Arquitectura, forma, espacio y orden. 3a ed. rev. y act. Barcelona: Gustavo Gili, 2010. ISBN 9788425223440.
- Thompson, D'Arcy Wentworth, 1860-1948. Sobre el crecimiento de la forma. Madrid: H. Blume, 1980. ISBN 8472142051.
- Loos, Adolf, 1870-1933. Ornamento y delito y otros escritos. Barcelona: Gustavo Gili, 1972.
- Venturi, Robert. Complejidad y contradicción en la arquitectura. Barcelona: Gustavo Gili, 1972.
- Deplazes, Andrea. Construir la arquitectura. Del material bruto al edificio. Un manual.. Barcelona: Gustavo Gili, 2010. ISBN 9788425223518.
- Banham, Reyner. La Arquitectura del entorno bien climatizado. Buenos Aires: Infinito, 1975.
- Barry, R. (Robin Lewis). The Construction of buildings. 5a ed. Oxford: Blackwell Science, 1992.
- Benavent, Pere, 1899-1974. Como debo construir : manual práctico de construcción de edificios. 8a ed. Barcelona: Bosch, 1972.
- Tatarkiewicz, Wladyslaw. Historia de seis ideas : arte, belleza, forma, creatividad, mimesis, experiencia estética. Madrid: Tecnos, 1987. ISBN 8430915184.
- Benevolo, Leonardo. Historia de la arquitectura moderna. 8ª ed. rev. y ampliada. Barcelona: Gustavo Gili, 1999.
- Giedion, S. Espacio, tiempo y arquitectura : origen y desarrollo de una nueva tradición. Ed. definitiva. Barcelona: Reverté, 2009. ISBN 9788429121179.
- Zevi, Bruno. Saber ver la arquitectura : ensayo sobre la interpretación espacial de la arquitectura. Barcelona: Poseidón, 1976. ISBN 8485083016.
- Fernández Galiano, Luis A. El fuego y la memoria : sobre arquitectura y energía. Madrid: Alianza, 1991. ISBN 842067110X.
- Abalos, Iñaki; Herreros, Juan. Técnica y arquitectura en la ciudad contemporánea. Madrid: Nerea, 1992. ISBN 8486763746.
- Paricio Casademunt, Antoni. Secrets d'un sistema constructiu : l'Eixample. 2a ed. rev. i amp.. Barcelona: Edicions UPC, 2008. ISBN 9788483019719.
- Sastre i Sastre, Ramon. Propietats dels materials i elements de construcció [Recurs electrònic] [on line]. Barcelona: Edicions UPC, 2000 [ Consultation : 11/10/2016 ]. Available on : <http://upcommons.upc.edu/bitstream/handle/2099.3/36307/9788498802634.pdf?sequence=2&isAllowed=y>. ISBN 848301422X.
- Wellpott, Edwin. Las instalaciones en los edificios. Barcelona: Gustavo Gili, 2009. ISBN 9788425221156.
- Torroja, Eduardo. Razon y ser de los tipos estructurales. 4ª ed. Madrid: Instituto Eduardo Torroja de la Construcción y del Cemento, 1976.
- Walker, Enrique. "Bajo construcción". Walker, Enrique. El diccionario de ideas recibidas. Santiago de Chile: ARQ Ediciones, 2017. p. 54.