



2nd. YEAR	Semester 03	Semester 04
Construction	Environmental building design (4 ECTS) <i>Sustainability and basic natural means to reach building comfort.</i>	Construction systems (6 ECTS) <i>Brick construction.</i>
Structures	Structures I (4 ECTS) <i>Analyse and study of materials resistance.</i>	Structures II (4 ECTS) <i>Identification of the resistance performance.</i>
Installations		
Physics	Physics II (6 ECTS) <i>Thermal comfort, electricity, light and sound.</i>	
Mathematics		
Drawing Expression	Architectural representation I (3 ECTS) <i>Graphic representation of architecture and landscape..</i>	Architectural representation II (5 ECTS) <i>The use of the graphic representation.</i>
Design Project	Tap III (8 ECTS) <i>Function, technique and constructive systems.</i>	Tap IV (12 ECTS) <i>Relation between project and site. Landscaping.</i>
Town Planning	Urbanism I (5 ECTS) <i>Urban planning theory. Architecture and landscape.</i>	
Composition		Composition I (3 ECTS) <i>History of art and architecture of the XIXth century.</i>

3rd. YEAR	Semester 05	Semester 06
Construction and installations	Technology I (7 ECTS) <i>Concrete construction.</i>	Technology II (7 ECTS) <i>Architectural exterior materials.</i>
Structures	Structures III (3 ECTS) <i>Structural analysis of hyperstatic porticoes.</i>	Structures IV (3 ECTS) <i>Resistance structures: reinforced concrete.</i>
Physics		
Mathematics		
Drawing Expression		Architectural representation III (5 ECTS) <i>graphic representation in the architectural proposal considering the relations with the place.</i>
Design Project	Tap V (12 ECTS) <i>Housing project.</i>	Tap VI (12 ECTS) <i>Urban dimension of the architecture. City transformation.</i>
Town Planning	Urbanism II (5 ECTS) <i>Cities and residential projects in the XXth century.</i>	
Composition	Composition II (3 ECTS) <i>Western local architecture from the XVIII th to the XXth.</i>	Composition III (3 ECTS) <i>Western architecture of the English house of the XXth century.</i>

4th. YEAR	Semester 07	Semester 08
Construction	Light envelopes (4 ECTS) <i>Architectural interiors materials.</i>	Intervention in the building stock (4 ECTS) <i>Buildings pathologies.</i>
Structures	Singular structures (3 ECTS) <i>Peculiar structures.</i>	Soil mechanics and foundations (3 ECTS) <i>Soil mechanics and foundation structures.</i>
Installations		Construction and conditioning of urban space (4 ECTS) <i>Urban installations: water, lightning...</i>
Physics		
Mathematics		
Drawing Expression		
Design Project	Tap VII (12 ECTS) A, B, C, D, E1, E2, F or G <i>Choose between 6 different project themes available. Information will be given one week before lessons start.</i>	Tap VIII (12 ECTS) A, B, C, D, E1, E2, F or G <i>Choose between 6 different project themes available. Information will be given one week before lessons start.</i>
Town Planning	The transformation of the built city (5 ECTS) <i>Transformation of the built city. Urban networks.</i>	
Composition	Composition IV (4 ECTS) <i>History of rehabilitation.</i>	Composition V (4 ECTS) <i>Art and Aesthetics.</i>

5th. YEAR	Semester 09	
Construction	Construction IX (4 ECTS) <i>Constructive details.</i>	
Structures		
Installations		
Physics		
Mathematics		
Drawing Expression		
Design Project	Tap IX / Projects IX (12 ECTS) A, B, C, D, E, F or G <i>Choose between 6 different project themes available. Information will be given one week before lessons start.</i>	
Town Planning	Urbanism VIII (2,5 ECTS) <i>Study of emerging sites in Barcelona metropolitan area.</i>	
Composition		

Elective Subjects	<i>Specific subjects with specific content involving all areas of architecture. Offer change every year. Information about availability is given two months before lessons start.</i>
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Information about the subjects from semester 09

_Normal courses:

<https://etsav.upc.edu/estudis/guia-docent> and go to **Assignatures troncs i obligatòries del pla 94**

_Elective subjects (provisional ones, may change until September):

<https://etsav.upc.edu/estudis/guia-docent/Guia-Docent-2012-2013/optatives/quadrimestre-de-Primavera-2012-2013>

Information about subjects from semester 03 to semester 08:

<https://etsav.upc.edu/estudis/guia-docent> and go to **Assignatures obligatòries del pla 2010**

DESIGN STUDIO COURSES AT THE ETSAV

_The design studio courses at the Escola Tècnica Superior d'Arquitectura del Vallès are called TAP (Taller d'Arquitectura i Projecte). The lessons usually take place on Mondays and Wednesdays in the morning (from 8:30 or 10:00 until 14:30).

TAP III

To link directly, Technical and Project so that decisions come backed by project construction systems. Use forms of representation to facilitate the verification of design and structure constant in relation to the project. PROJECT + CONSTRUCTION + MATERIALIZATION

TAP IV

The project seen as a transforming element of the site, the city and the territory. This course is aimed to know and analyze the characteristics of the place and the city shape.

TAP V

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.

TAP VI

Masterplan project: design of a residential quarter.

_From the 7th to the 10th semester, students are mixed in 7 different TAPs, according to different topics. The project site varies every semester, but the topics always remain the same:

TAP A

Design a project for a public building in Barcelona's metropolitan area, such as a library or a football field. The detail design will be very important, as well as the equipment and installations to reach comfort in the building.

TAP B

Design a project for a public building in Barcelona's metropolitan area. This design may also include some housing or other programs, according to the site. An important part of the project is the interaction of buildings within the city and public spaces.

TAP C

Designing on what is already built and changing sites with historical interest. The program of the building or the access to it may be modified, for this building to fit better in its urban context.

TAP D

This course is based in the temporary conditions of architecture, and is about re-occupying a building to change its usage or to increase its functions. Normally the selected building has a singular feature, such as its historical or its structural interest.

TAP E 1

Analysing and developing new programmes for areas in post-industrial landscapes. This design studio project has to deal with buildings and public space, without forgetting sustainability.

TAP E 2

An architectural project as a tool to change a site. Landscape and ecology.

TAP F

Transforming and developing urban areas. Starting with the analysis of the area and its infrastructures, the problematic and potentials, students should come up with the program themselves, which needs to include from public facilities to housing, and explore strategies like the mixed usage or compactness to reach sustainability.

TAP G

Designing from the inside out: Starting from a basic unit and then thinking of an abstract form of aggregation, and in the last term, think about the placement of this module on the plot and the addition of services to it. This designing method starts, for example, from a classroom unit, to end up designing a school.