

SEMESTER 1

verd

6 ECTS
It's an introduction to the basics of materiality and methods used to build, first year students get a taste of what's to come while learning the vocabulary and relation with the environment.

Bases per la tècnica
Mondays 14.30 - 16.45
Thursday 17.30-19.40

6 ECTS
Geometria analítica
A survey on linear algebra and geometry. It focuses on coordinates and their application to 3D representation. Basic undergraduate level.

Wednesday 14.30 - 16.45
Friday 17.00-19.10

6 ECTS
Thermal comfort. Humidity. Electricity, Light and sound. It studies the environmental impact of architecture.

Física ambiental
Tuesday 17.30 - 19.40
Friday 14.30-16.45

6 ECTS
Introducing the student into graphic architectural language. Introduction to techniques for the correct perception of space and form and its expression..

Dibuix
Tuesday 14.30 - 17.15
Wednesday 17.00-19.50

6 ECTS
Projects: Representing 1. Introduction workshop to design, focusing on:
• The observation of reality as a way of acquiring knowledge
• The correct and careful presentation of the architectural project
• The design process

Habitat i espai
Monday 17.30 - 19.45
Thursday 14.30-17.15

SEMESTER 2

roig

6 ECTS
Càlcul
The course focuses on a mathematical view on curves and surfaces, and its applications.

Tuesday 14.30-16.00
Friday 14.30-15.50

6 ECTS
This is one of our more traditional subjects, found in many schools. You will learn the mechanics behind systems and forces. Equilibrium, cable static... It is an introduction to the functioning of structures..

Mecànica
Tuesday 19.05-20.25
Thursday 16.15-19.30

6 ECTS
Introduction to the culture of architecture, you learn to study references, contextualize them and develop skills of perception and critical thinking.

Bases per la teoria
Monday 14.30-17.30

6 ECTS
Technical drawing. Introduction to de CAD software of MicroStation by teaching terrain representation, geometry, shadows, tracing...

Dibuix tècnic
Tuesday 16.10-18.55
Friday 16.00-18.45

6 ECTS
Projects: Representing 2. Introduction workshop to design, focusing on:
• The correct and accurate representation of a project
• Attention to form
• The study and analysis a means to acquiring knowledge

Forma i espai
Wednesday 14.30-20.00

SEMESTER 3

groc

4 ECTS
Learn the basis for sustainability in relation to architecture and the natural mediums of control (solar, lightning, hygrothermal and acoustics).

Disseny ambiental de l'edifici
Friday 8.50-11.50

4 ECTS
Esforços i tensions
Study and analysis of the resistance of materials

Thursday 12.30-14.00
Friday 12.30-14.00

6 ECTS
The course addresses the changing relations between cities and their architecture, all within their historical context. Throughout the semester you study different cities with a history in architecture and urban planning.

Arquitectura i ciutat
Tuesday 8.20-10.30
Thursday 8.20-10.30

3 ECTS
Representació arquitectònica del lloc
Development of graphic architectural language and use of different drawing techniques

Tuesday 12.00-14.10

5 ECTS
Through the study of small towns in Catalunya you learn to read a city from a historical, geographical, economic and social point of view. Additionally, the theoretical classes serve as a basis and support to properly understand what we are seeing.

Medi, espai lliure i ciutat
Monday 9.00-10.50
Wednesday 9.00-10.50

8 ECTS
TAP 3 Societat i ciutat
The workshop is conceived as a research laboratory that deals with social trends through the hypothesis method in an environment of opportunity, the course presents new tribes, and these are the ones who choose the hypothesis and the environment of opportunity.

Monday 11.30-14.30
Wednesday 11.30-14.30

SEMESTER 4

lila

6 ECTS
Construction and refurbishment of the interior space. The course combines theory and practice. The teaching of requirements, technical resources, conditioning and construction is then put into practice when the student applies it all to an interior space.

Sistemes constructius
Monday 8.40-9.30
Tuesday 9.00-13.00

4 ECTS
The course focuses on two principles: equilibrium and form. You study equilibrium, in a both global context and a more specific one. Which then is used to study form, its classic solutions, the basis of static graphics and in the real building of a small shell.

Forma i deformacions
Thursday 8.30-10.00
Friday 8.30-10.00

3 ECTS
Composició I
History of public architecture I. The course teaches monumental architecture and its history until the eighteenth century.

Thursday 12.00-14.30

5 ECTS
Following the course of technical drawing, this one focuses on 3D modeling as an architectural tool.

Representació Arquitectònica i Modelatge
Wednesday 8.30-10.20
Friday 10.40-12.30

12 ECTS
TAP 4 Lloc i ciutat
The workshop understands the city as a non-binary structure between the public and the private, as a non-expelling global space. We work the coexistence between different collectives of society in the same space.

Monday 9.40-14.30
Wednesday 10.30-14.30

SEMESTER 5

blau

7 ECTS
Construction and refurbishment of the interior space. Study and apply the requirements, technical resources, constraints and impacts of construction and conditioning activities in a interior architectural spaces.

Tecnologia dels espais Interiors
Tuesday 8.30-10.30
Friday 8.30-11.40

3 ECTS
Estructures hiperestàtiques
Structural analysis of hyperstatic porticoes.

Thursday 12.00-14.10

3 ECTS
History of public architecture II. Using the proper technical vocabulary, write: make drafts and improve documents, coherent and properly suited to the type of public chosen and communication objectives.

Composició II
Tuesday 11.50-14.00

5 ECTS
Cities and residential projects in the XXth century. Knowledge of the evolution of residential theories and projects within the framework of the cultural, technical and social evolution of the city of the 20th and 21st centuries. This evolution should help us understand the basic principles for the formulation of current residential projects.

Ciutat i projecte residencial
Monday 8.15-10.05
Wednesday 8.15-10.05

12 ECTS
What characterizes a residence and does an archetype exist for them. The course exposes the idea of how far one can tense the concept of habitability, and furthermore treat all of the different variables and current questions that affect the quality of a residence.

TAP 5 Habitatge i tècnica
Monday 10.10-14.30
Wednesday 10.10-14.30

SEMESTER 6

taronja

7 ECTS
Study services as an indissoluble part of the architectural project and building. Design and calculation of building services. Special emphasis on: concrete and reinforced concrete.

Sistemes constructius II
Tuesday 11.30-14.30
Friday 8.30-10.40

3 ECTS
Construction and calculation of concrete structures. Learning how to use a calculus software (WinEva) to calculate concrete structures in 2D.

Estructures de formigó armat
Friday 11.00-13.10

3 ECTS
History of public architecture III. Recognize the social and environmental implications of major architectural references, all while using the appropriate technical vocabulary.

Teoria i història
Thursday 12.00-14.10

5 ECTS
Communicate and represent the graphic documents with a persuasive capacity appropriate to the proposal idea, using techniques and systems of representation indicated for each case.

Representació arquitectònica del projecte
Tuesday 9.00-10.50
Thursday 8.40-10.30

12 ECTS
A workshop that focuses on the relationship between housing and the city. Urbanism and housing in catalonian areas.

TAP 6 Habitatge i espai urbà
Monday 10.00-14.30
Wednesday 10.00-14.30

SEMESTER 7

4 ECTS
Knowledge of the constructive systems for the resolution of light envelopes based on specialized and pre-industrialized elements. Know and distinguish the basic characteristics of the main elements and systems used for the resolution of light envelopes. Construction of a model 1.1 of a light facade of an existing building

Envolupants lleugers
Friday 8.30-11.30

3 ECTS
Analyze a structure of large lights. Evaluate the capabilities of all the elements that make up the structure. Design and calculation of steel and reinforced concrete. Know tools and processes to apply sustainability criteria to structural design.

Estructures singulars
Tuesday 12.00-14.10

3 ECTS
more information coming soon

Elective courses (optatives)

5 ECTS
Knowledge of the processes and tools of transformation in the built city. Plot by plot based on regulatory parameters of regulatory parameters of planning regulation. Improvement of public elements of the city. Use of a GIS software (QGis)

Urbanística III
Tuesday 8.00-11.40

12 ECTS
more information coming soon

TAP 7 Pta/Tb
Monday 10.00-14.30
Wednesday 10.00-14.30

SEMESTER 8

4 ECTS
Construction and preparation of urban space. Explain and give students tools to design, condition and build the Urban Space, emphasizing the criteria for intervention on the territory and the responsibility it entails. From a critical thinking methodology to a professional job.

Construcció i condicionament de l'espai urbà
Thursday 9.00-13.40

3 ECTS
Soil mechanics and foundation structures. Achieve the fundamental knowledge for the analysis of soils, the deduction of mechanical characteristics and the design and calculation of surface foundations and containment structures.

Mecànica del sol i fonaments
Tuesday 10.00-12.10

3 ECTS
more information coming soon

Elective courses (optatives)

4 ECTS
Western domestic architecture. Architecture, theory and criticism after the second world war.

Composició IV
Friday 10.00-13.00

12 ECTS
more information coming soon

TAP 8 Pud/Puy
Monday 10.00-14.30
Wednesday 10.00-14.30

SEMESTER 9

4 ECTS
To have knowledge, both of the techniques and of the necessary tools that allow you to face the problems arising from existence of pathologies in all types of existing buildings. Emphasize the role of rehabilitation in the current era, basically as an essential instrument to face the future challenges of the construction sector.

Intervenció en el parc edificat
Thursday 9.00-13.30

3 ECTS
more information coming soon

Elective courses (optatives)

5 ECTS
Basic knowledge of urban planning, urban and territorial planning, legal and management instruments; basic knowledge of urban and territorial structures. Willingness to understand urban and territorial scales, to analyze and formulate assessments and to propose project logics.

Urbanística IV
Tuesday 8.20-12.30

12 ECTS
more information coming soon

TAP 9 PTEs/PTEf
Monday 10.00-14.30
Wednesday 10.00-14.30

SEMESTER 10

6 ECTS
Design and construction: a construction project and building site management. Work of the constructive section of the project that integrates the construction and the fitting services in relation to the conditions of the work.

Construir allò projectat
Thursday 8.20-14.10

3 ECTS
TFG

3 ECTS
more information coming soon

Elective courses

4 ECTS
Architecture, theory and criticism from mid-century to current architecture

Composició V
Tuesday 9.00-12.00

12 ECTS
more information coming soon

TAP 10 PCg/PCH
Monday 10.00-14.30
Wednesday 10.00-14.30