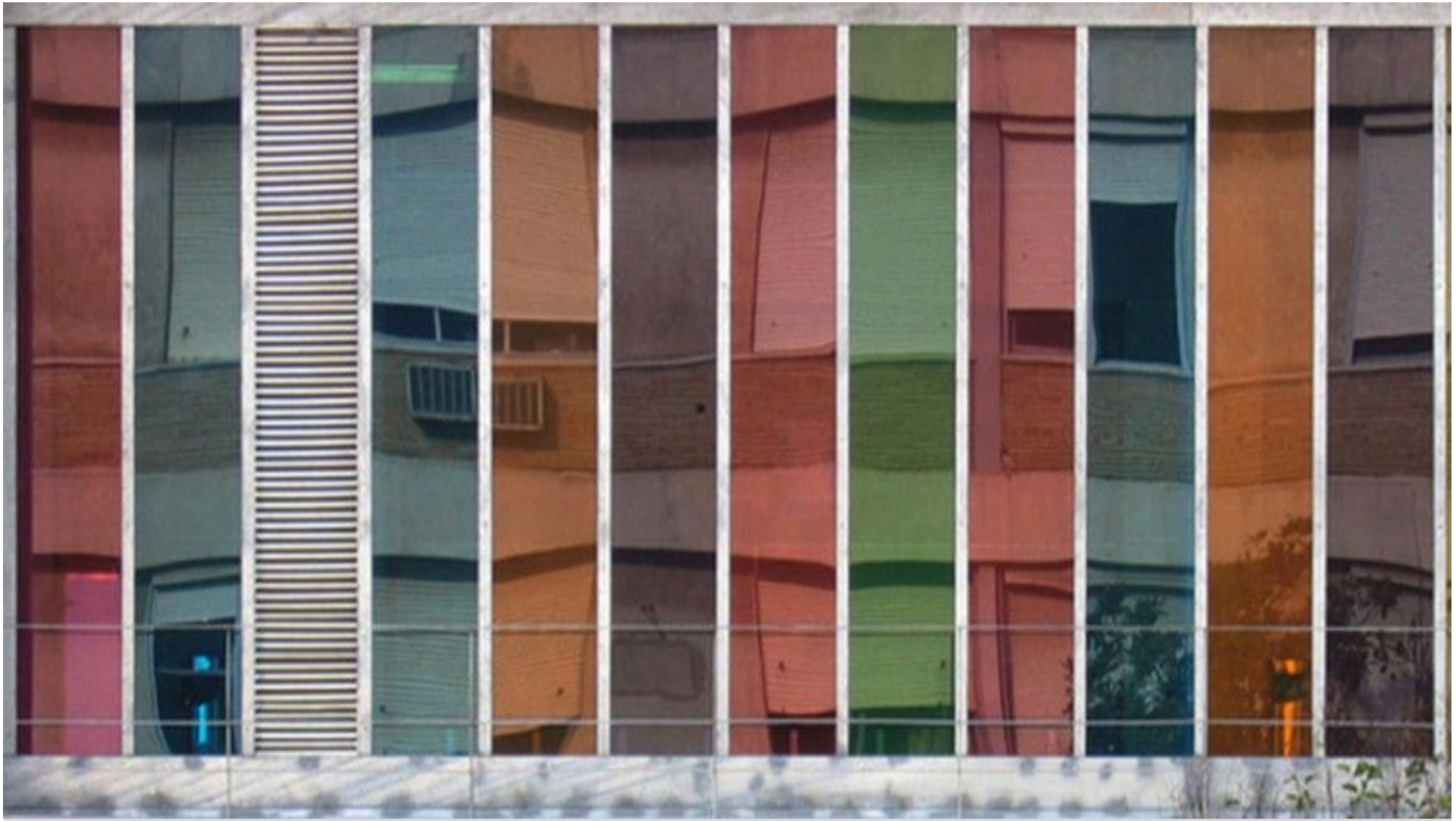

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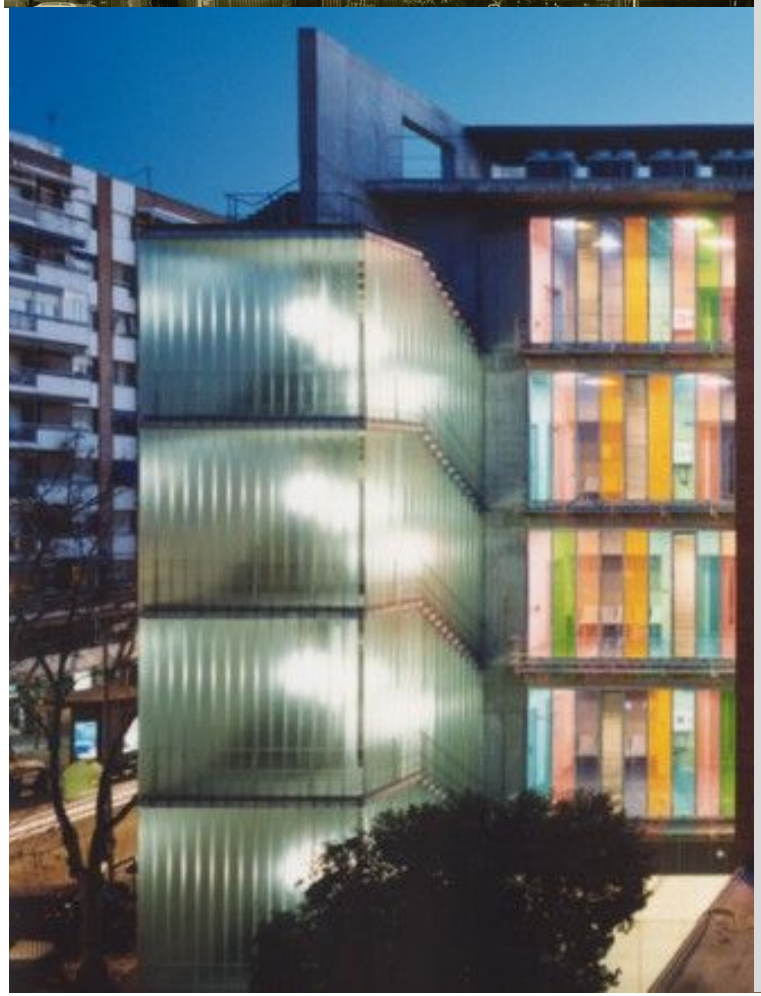
Our course offer includes some from the Bachelor degree in "Architecture fundamentals" and the Master Degree "Innovation in Architecture: technology and design"

Bach. Degree: “Architecture fundamentals” 5 years 300 ECTS



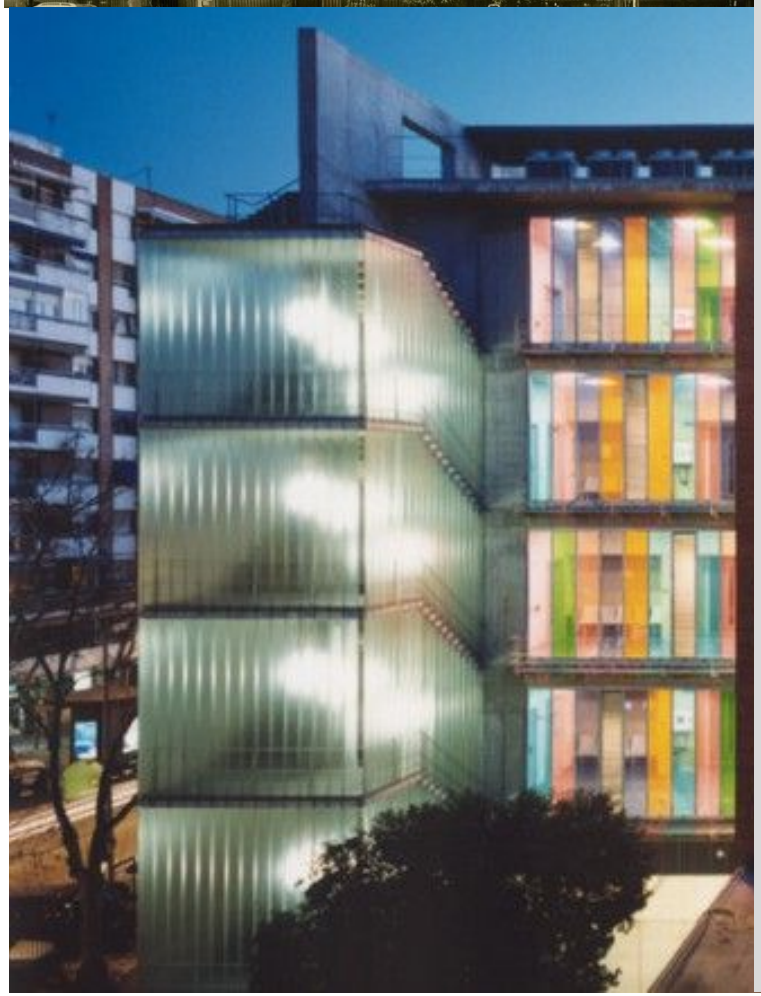
Undergraduate:

- **2330034 Architectural Workshop 5:**
  6 credits. 60 hours workshop. September-February. 4th academic year
  The aim of Workshop 5 is to address the entire development process of an architectonic proposal on urban and territorial infrastructures. It will be guided by professors from different fields of knowledge such as building constructions, building systems, urbanism, structures, architectonic representation, architectonic composition or architectural projects.

- **2330033 Architectural Projects 7:**
  6 credits. 60 hours workshop. September-February. 4th academic year
  The course is focused on a medium scale Project over urban or territory relationships: flows, changing processes, landscape, resources, boundaries, challenges. Contour and context conditions. Analysis and synthesis processes will be held along the course to help students to develop their proposals.
  It will be guided by professors from architectural projects department.

- **2330035 Urban Planning 3:**
  6 credits. 60 hours workshop. September-February. 4th academic year
  The course is focused on the planning figures at a medium-scale. It also developes the criteria and objectives for designing equipments and dwelling systems.
  It will be guided by professors from urbanism department.

- **2330053 Architectural Workshop 6:**
  6 credits. 60 hours workshop. February-June. 4th academic year
  The aim of Workshop 6 is to develop a Project on a heritage context or over a heritage building, applying reparation and restoration techniques as well as heritage concepts. It will be guided by professors from different fields of knowledge such as building constructions, building systems, urbanism, structures, architectonic representation, architectonic composition or architectural projects.



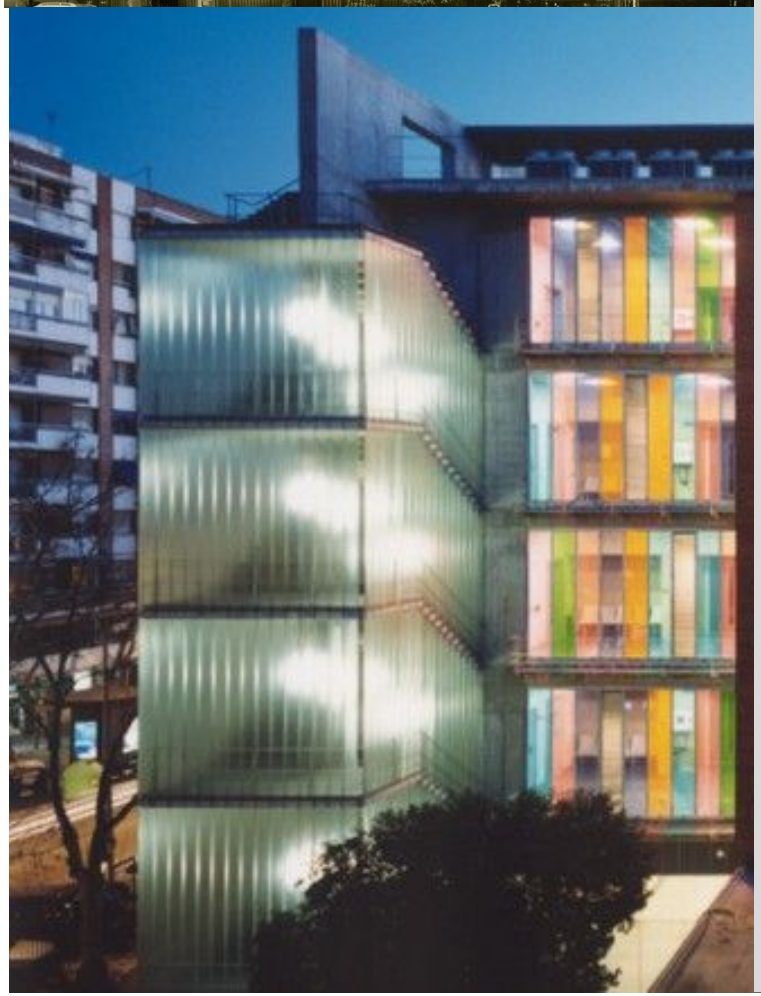
- **2330039 Architectural Projects 8:**
  6 credits. 60 hours workshop. February-June. 4th academic year
  Projects will attend to heritage, time or zeitgeist, recycling. New uses for old buildings, or reactivation of the city, including the identity of space.
  It will be guided by professors from architectural projects department.

- **2330036 Building construction 5:**
  6 credits. 60 hours. February-June. 4th academic year
  Course topics are: reparation and restoration of buildings. Damages and diagnosis on buildings. Energy renewal for buildings. It will be taught by professors from building constructions department.

- **2330037 Building Structures 3:**
  6 credits. 60 hours. February-June. 4th academic year
  The course is focused on reinforced concrete structures. Predimensionation, design and calculation. It will be taught by professors from building structures department.

- **2330038 History, Theory and Architectonic Composition 3:**
  6 credits. 60 hours. February-June. 4th academic year
  Course topics are: Territory and culture, heritage processes, and intervention basis. It will be taught by professors from history, theory and architectonic composition department.

- **2330053 Architectural Workshop 7:**
  6 credits. 60 hours workshop. September-February. 5th academic year
  The aim of Workshop 5 is to develop graphic and intermodal analysis that lead the students or define a Project on a urban scale. They should use critical and contemporary thinking to solve the design. It will be guided by professors from different fields of knowledge such as urbanism, architectonic representation, architectonic composition and architectural projects.

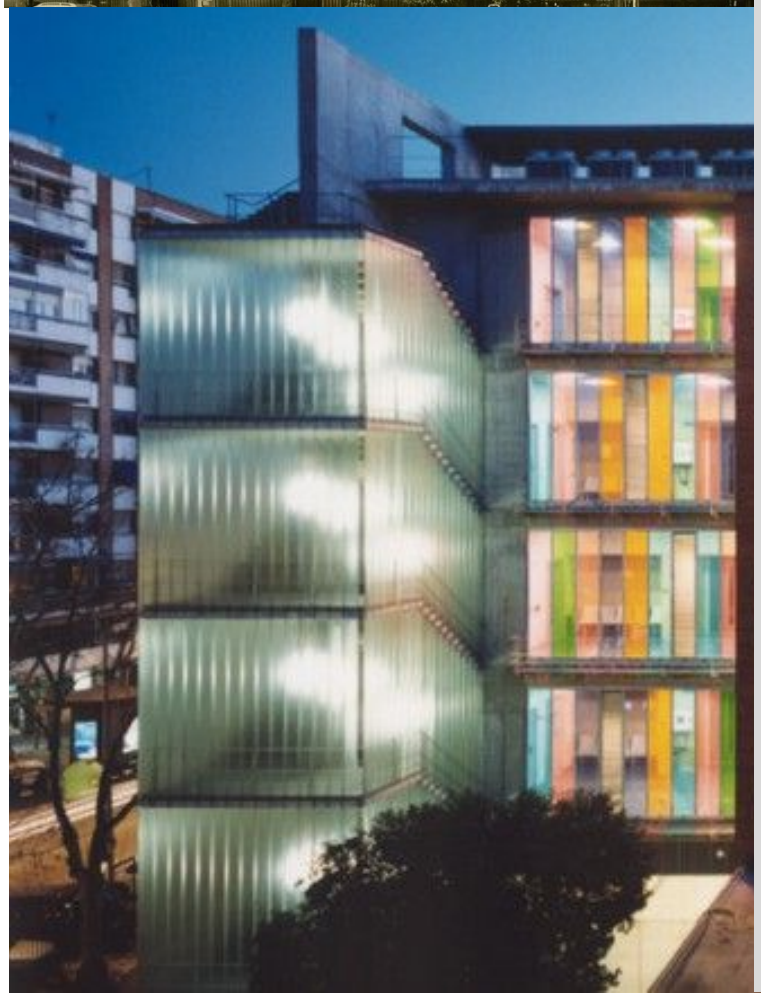


- **2330052 Architectural Projects 9:**
  6 credits. 60 hours workshop. September-February. 5th academic year
  The course is focused on a urban Project involving contemporary strategies and understanding the growth of the city, comparing urban shapes and climate environment. It will be guided by professors from architectural projects department.

- **2330050 History, Theory and Architectonic Composition 4:**
  6 credits. 60 hours. February-June. 5th academic year
  Course topics are: Contemporary city, society and culture, landscape and territory, theory and practice of city interventions. It will be taught by professors from history, theory and architectonic composition department.

- **2330059 Architecture and environment:**
  6 credits. 60 hours. September-February. 5th academic year
  The aim of the course is to consider architecture in terms of the diverse requirements in the field that have emerged since the end of the 20th century. We provide students with tools for the systematic treatment of environmental problems in buildings and urban areas. Our primary concern is to disseminate and reinforce tools that allow us to approach contemporary issues involving Architecture and Ecology. It will be taught by professors from history, theory and architectonic composition department.

- **2330072 Architectural Projects 10:**
  6 credits. 60 hours workshop. February-June. 5th academic year
  The course is focused on a professional management Project. The aim is to get the student involved into the real work of an architect. Building process, building systems and facilities, structure must be taken into account during the design process. It will be guided by professors from architectural projects department.



Other Undergraduate courses:

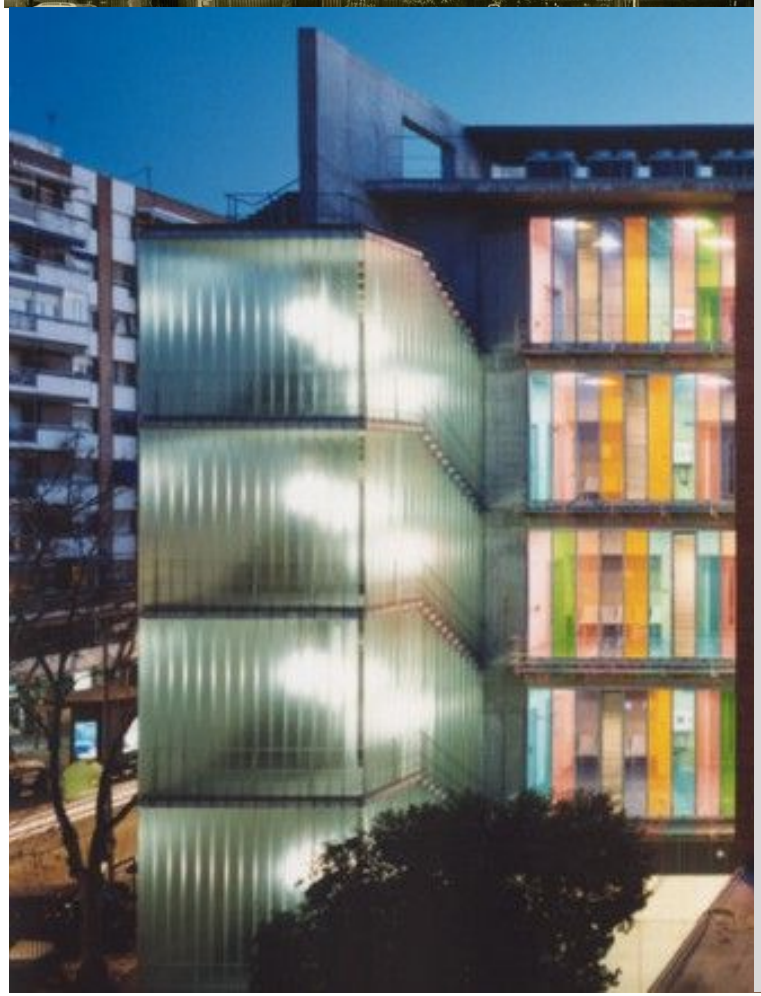
- **2330004 History, Theory and Architectonic Composition 1:**
  6 credits. 60 hours. September-June. 1st academic year
  Course topics are: Contemporary history, society and culture, focused on the development of Modern Architecture. It will be taught by professors from history, theory and architectonic composition department.

- **2330025 Architectural Workshop 3:**
  6 credits. 60 hours workshop. September-February. 3th academic year
  The aim of Workshop 3 is to address the entire development process of an architectonic proposal on public buildings and equipment. It will be guided by professors from different fields of knowledge such as building constructions, building systems, urbanism, structures, architectonic representation, architectonic composition or architectural projects.

- **2330024 Architectural Projects 5:**
  6 credits. 60 hours workshop. September-February. 3th academic year
  The course is focused on a medium scale Project over public buildings and equipment relationships with the urban context and public spaces. Analysis and synthesis processes will be held along the course to help students to develop their proposals. It will be guided by professors from architectural projects department.

- **2330021 Building construction 3:**
  6 credits. 60 hours. September-February. 3th academic year
  Course topics are: Enclosures, concrete structures and foundations, slabs, deep foundations, roadways, public space, urban furniture. It will be taught by professors from building constructions department.

- **2330023 Building Structures 2:**
  6 credits. 60 hours. September-February. 3th academic year
  The course is focused on steel structures. Geometry, connections, predimensionation, design and calculation. It will be taught by professors from building structures department.

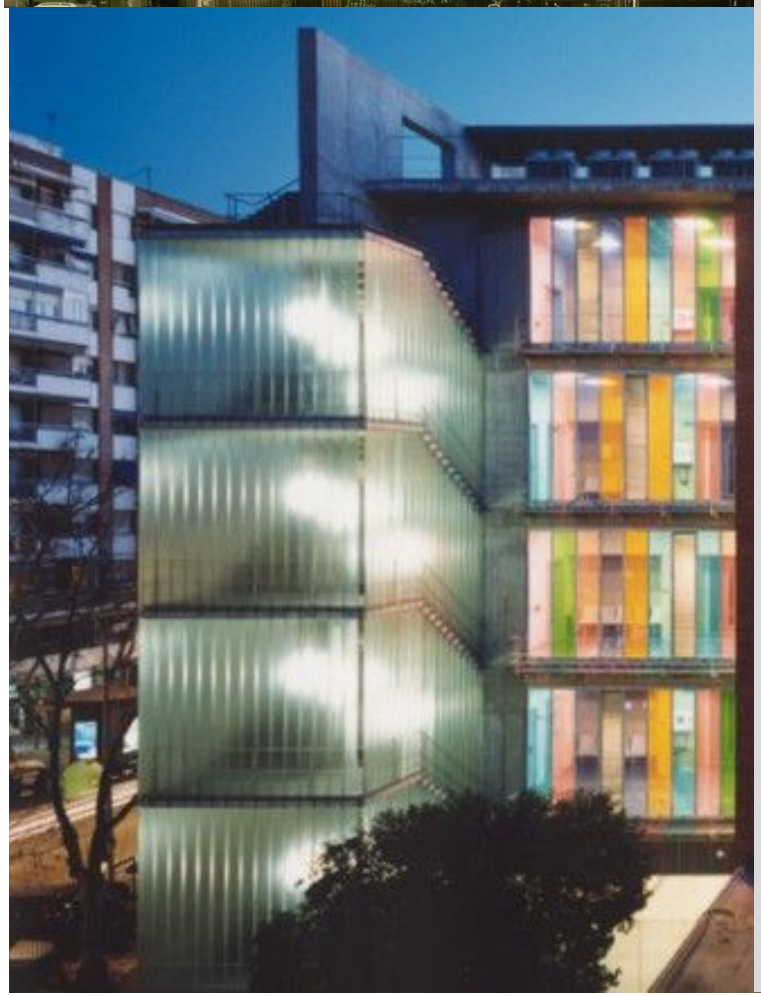


- **2330022 Architectural Drawing 4.**
  6 credits. 60 hours. September-February. 3th academic year
  Course topics are: Formal creation processes, architectural thinking and drawing, communication. It will be taught by professors from architectonic drawing department.

- **2330029 Architectural Workshop 4:**
  6 credits. 60 hours workshop. February-June. 3th academic year
  The aim of Workshop 4 is to develop a Project on a urban context attending at neighborhood context, including technical details in a medium scale. It will be guided by professors from different fields of knowledge such as building constructions, building systems, urbanism, structures, architectonic representation, architectonic composition or architectural projects.

- **2330028 Architectural Projects 6:**
  6 credits. 60 hours workshop. February-June. 3th academic year
  Projects will attend to fundamentals in inhabitation and material culture. Sustainable use of the environment and heritage will be attended as well as urban context. It will be guided by professors from architectural projects department.

- **2330026 Building systems and facilities 2:**
  6 credits. 60 hours. February-June. 3th academic year
  Course topics are: conditioning and facilities in tertiary buildings. Passive fire protection, electrical facilities, urban facilities in a medium scale. It will be taught by professors from building constructions department.

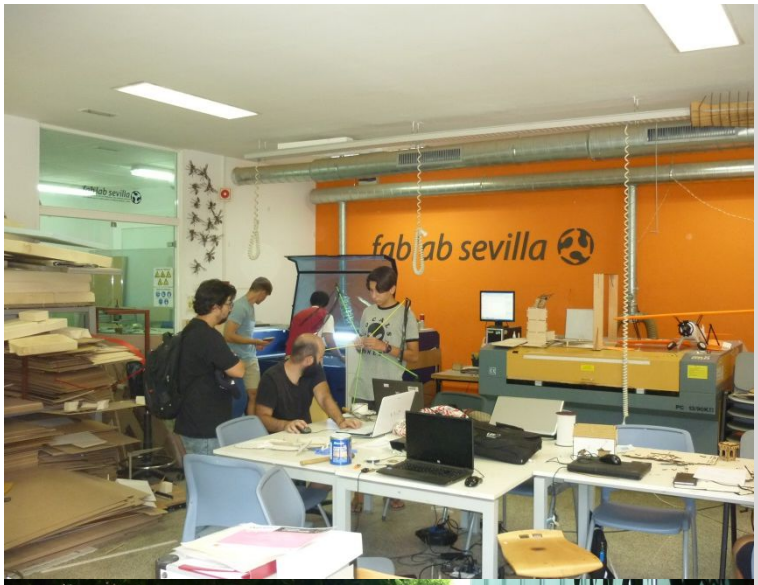


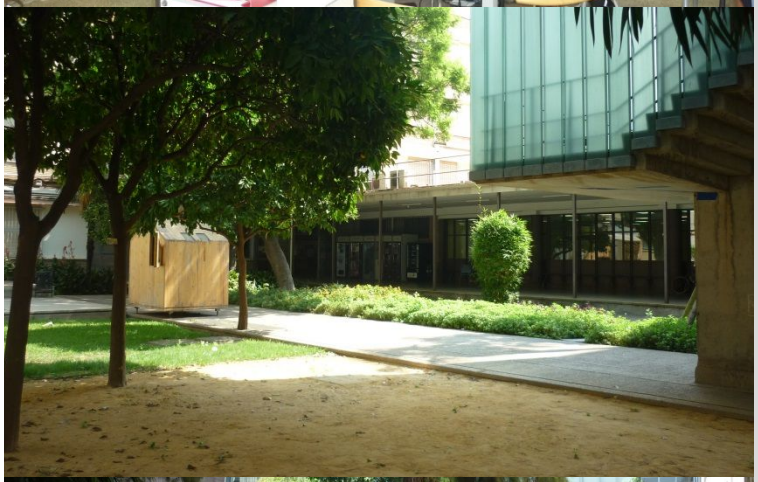
- **2330027 Geotechnical Engineering and Foundations:**
  6 credits. 60 hours. February-June. 3th academic year
  The course is focused on foundations and soil properties. Topics are: geotechnical testing, laboratory work on soli properties, deep foundations and terrain conditioning. It will be taught by professors from building structures department.

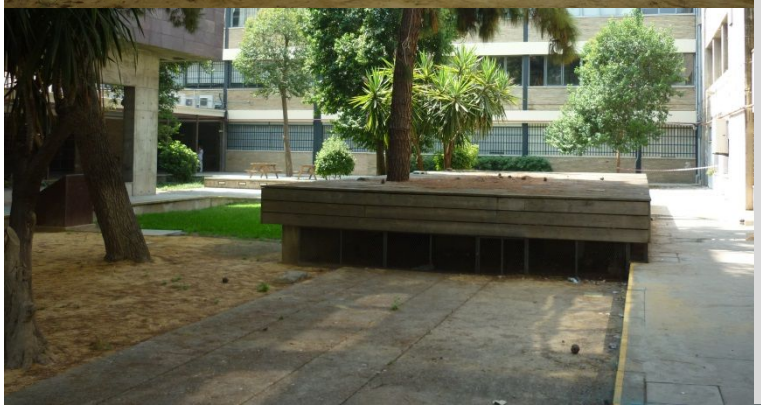
- **2330026 Building systems and facilities 3:**
  6 credits. 60 hours. September-February. 4th academic year
  Course topics are: Energy demand and efficiency in buildings. Air conditioning facilities and services. Thermal balance in buildings. It will be taught by professors from building constructions department.

- **2330036 Building construction 6:**
  6 credits. 60 hours. February-June. 5th academic year
  Course topics are: professional activity, regulations, supervision and control in professional practice, building reports and assessments. It will be taught by professors from building constructions department.

Master Degree “Innovation in Architecture: technology and design” 1 year 60 ECTS







Graduate (from 2021-22 on):

- **51690002 Architecture and innovation: models**
  8 credits. 20 hours theoretic classes+20 hours workshop. February-June
  The course is based on the analysis of 4 architectural models with these themes:
  01 Product management with digital manufacturing
  02 Skyscrapers
  03 Heritage: tools to know about it and to act on it
  04 Assembled dwellings: fast building and lightness
  It will be taught by professors from different fields of knowledge such as building constructions, structures, architectonic representation or architectural projects.

- **51690004 Materiality: Architectural Project as tool for technology based solutions.**
  15 credits. 60 hours theoretical classes+15 hours workshop. February-June
  The course is focused on developing a light, fast built and assembled dwelling Project. Passive conditioning strategies and renewable energy must be included in the design. Classes will help students to get used to last generation construction systems and structures. Workshops will involve professors from different fields of knowledge such as building constructions, structures, architectonic representation, architectonic composition or architectural projects, to develop students´ practical work.

- **51690003 BIM: Prediction, modeling and prototyping procedures. Transversal work in BIM to get a unique, integrative, tool for architectural projects.**
  12 credits. 60 hours. October-February
  The course will test the possibilities of BIM as a tool that is able to be linked to simulation and optimization software in order to guide the architectonic design. Special emphasis will be held on light and quick assembled models, according to passive strategies and renewable energy. We also use Life Cycle Analysis software linked to BIM tool. It will be taught by professors from different fields of knowledge such as building constructions, structures, architectonic representation or mathematic researchers.