

What and Why

The **1st year** (1st level) provides the necessary knowledge of materials choice, health and safety conditions, economical and architectural quality. It concentrates on the understanding of different architectural structures, by explaining and by drawing details.

Materials of construction, Elements of construction

The **2nd year** (1st level) concentrates on assuring professional quality in architectural design, principles, instructions, requirements of quality, execution and utilization of buildings, building site practice.

Elements of construction, Finishing in architecture, Mechanics

The **3rd year** (1st level) studies in detail how a construction and its load-bearing structure are inseparable. The importance of a structure in a built ensemble is deeply known and this is to be gathered by an architect, as well.

Finishing in architecture, Equipments, Theory of structures, Public utilities

During the **4th year** (2nd level) the structural elements, the sub-ensembles and structural-ensembles are thought. The main objective is to introduce the structural concept in the vision of the architectural students and to expand their structural intuition.

Building physics, Theory of structures, Structure and form

The **5th year** (2nd level) concentrates on knowing the applied work procedures on sites, some machinery and technology equipment, making connections between structural forms and execution technology applied. This year provides also knowledge about the function and leading ways of firms, in the market. One more subject of study is the ability of damage analysis and rehabilitation methods.

Construction technology, Special structures, Management, Building pathology and rehabilitation

The **6th year** (2nd level) provides knowledge about the stages in making an investment and the main techno-economic indicators that control the investment activity, and also about formation and accumulation of experience on structural building design.

Economical efficiency, new technologies.

How

Pedagogic strategy. The basis of the pedagogic strategy is on the one hand the progression of acquisition of knowledge and on the other hand, the fact that constructive conception and architectural conception of a project must go on simultaneously.

1st year. To initiate in constructive culture. To initiate in various constructive principles by using and representing materials.

2nd year. Technical training for architectural design.

3rd year. Structure and its role in the building.

4th year. Structural analysis.

5th year. Acquiring knowledge regarding civil and industrial construction execution. Learning about managing firms, with details in the designing and execution of construction. Maintenance, repair, and rehabilitation of building structures.

6th year. Acquiring knowledge about the economic-financial investment domain. The influence of technology on structural building design.

Relation to studio teaching. The directed works are done at the same time with the architectural projects – specific exercises, picked up from the architectural project, may allow to precise certain answers of purely constructive order.

Who

Materials of construction (compulsory)	1st year	theory, laboratory	1 lecturer architect
Elements of construction (compulsory)	1st - 2nd year	theory, laboratory	1 lecturer architect
Mechanics (compulsory)	2nd year		
Finishing in architecture (compulsory)	2nd - 3rd year	theory, project	1 lecturer architect
Equipments (compulsory)	3rd year		
Theory of structures (compulsory)	3rd - 4th year	theory, seminars	1 prof engineer, PhD
Public utilities (compulsory)	3rd year		
Building physics (compulsory)	4th year		
Structure and form (optional)	4th year		
Construction technology (compulsory)	5th year	theory, project	1 lecturer engineer
Special structures (compulsory)	5th year		
Management (elective)	5th year	theory	1 lecturer engineer
Building pathology and rehabilitation (elective)	5th year	theory, individual work	1 lecturer engineer, PhD
New technologies (elective)	6th year	theory	1 lecturer engineer
Economical efficiency (compulsory)	6th year	theory, laboratory, individual work	1 lecturer engineer

Timing and teaching hours

When and to What Extent

Level	Year	Knowledge	Sequence	Hours per week
1	1	Materials of construction	semester	3
1	1+2	Elements of construction	1 semester for each year	3
1	2	Mechanics	year	
1	2+3	Finishing in architecture	1 semester for each year	5
1	3	Equipments	semester	
1	3	public utilities	Semester	
1	3	Theory of structures	year	
2	4	Theory of structures	year	3
2	4	Building physics	year	
2	5	Construction technology	semester	3
2	5	Special structures	semester	
2	5	Management	year	2
2	5	Building pathology and rehabilitation	year	2
2	6	Economical efficiency	semester	3
2	6	New technologies	semester	