

What and Why

The teaching of construction has two courses: Structures and Construction.

Construction I (2nd Year)

The topics taught are materials (e.g., stone, wood, glass, lime, plaster, sand, argil, bricks, iron, concrete and plastic). All materials are studied in order to understand their constitution, properties, applications and pathology.

The constitutive elements of construction are also studied (e.g., roof-tiles, types of walls, wall channels, insulation systems, surfaces).

Construction II (3rd Year)

1. Foundations
2. Walls and their evolution until industrialization
3. Pavements
4. Casting roofs
5. Elements of comfort, acoustics and thermal/thermics.
6. Technical installations, waters and sewage system.
7. Construction pathology.

Construction III (4th Year)

- The relationship of the materials and constructive techniques with the architectonics of language and poetics – Study of the detailed and constructive techniques of the work of Keil do Amaral.
- The construction of steel, glass, stone, wood, concrete and prefabricated plastics.
- The relationship between architecture with environmental comfort.
- Technologies that can provide environmental comfort.
- Architecture and the environment
- The execution project- definition and concepts.
- The construction work and the shipyard.
- Simulation of the execution project.
- Match between the project and the existing legislation.
- General drawings of the execution project of a building.
- Finishing maps, covering maps and building details.

Structures I (3rd Year)

- Static.
- The buildings as structures.
- Forces acting on structures.
- Characteristics and the behavior of building/construction materials.
- Structural conception of buildings and steel structures.
- Theory and conception of structures.

Structures II (4th Year)

- Function and conception of structures.
 - Wooden structures.
 - Steel structures.
 - Concrete.
 - Reinforced concrete.
 - Pre-dimensioning
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- Theoretical lectures.
 - Applied/practical lectures.
 - Study trip to shipyards.
 - Study of the work of very important architects.
 - Thematically organized seminars.

The teaching of constructions and structures are always related with the Lab Project.

Construction: one PhD, three Masters, seven architects' lectures.

Structures: one PhD, two Masters, five engineers' lectures.

Doctors are coordinators, Masters deliver the theoretical lectures and give the applied/practical lectures.

In each academic year, the programs are remade as a function of the relation with: the lab of project, the practical/applied exercises and the updating of the bibliography.

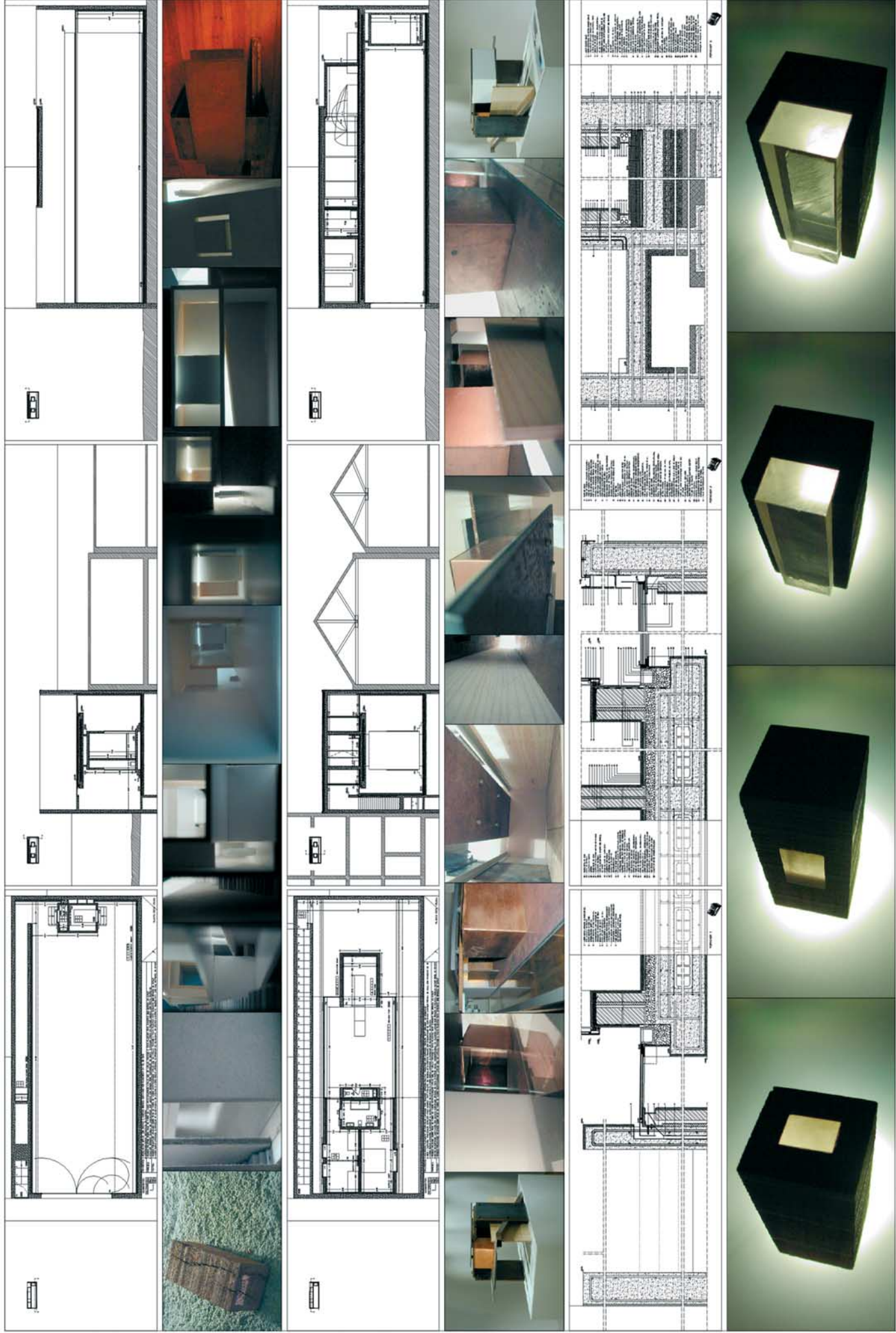
How

Who

Virtual Reforms

When and to What Extent

Ciclo	Ano	Curso	N.º de Discip.	Disciplinas	Tipo	Carga Horária			Total Sem/A	U.C.	
						T	T/P	P			
1º	1º	1	ARQUITECTURA I	A	2	10		12	18		
		2	DESENHO I	A		6		6	8		
		3	GEOMETRIA DESCRITIVA	A		4		4	5		
		4	HISTORIA DE ARTE I	A	2			2	4		
		5	CAD / Tecnologias Digitais I	S		4		2	2,5		
		6	MATEMATICA	S		4		2	2,5		
					4	24	-	28	40		
	2º	1	ARQUITECTURA II	A	2	10		12	18		
		2	DESENHO II	A		6		6	8		
		3	HISTORIA DE ARTE II	A	2			2	4		
		4	CAD / Tecnologias Digitais II	A		2		2	2,5		
		5	CONSTRUCOES I	A		4		4	5		
		6	ANTROPOLOGIA DO ESPACO I	S		4		2	2,5		
					4	24	-	28	40		
2º	3º	1	PROJECTO I	A	2	10		12	18		
		2	ANTROPOLOGIA DO ESPACO II	A		2		2	2,5		
		3	TEORIA DA ARQUITECTURA	A	2			2	4		
		4	HISTORIA DE ARQUITECTURA I	A	2			2	4		
		5	ESTRUTURAS I	A		4		4	5		
		6	CONSTRUCOES II	A		4		4	5		
		7	GEOGRAFIA FISICA	A		2		2	2,5		
					6	22	-	28	41		
4º		1	PROJECTO II	A	2	10		12	18		
		2	HISTORIA DE ARQUITECTURA II	A	2			2	4		
		3	ESTRUTURAS II	A		4		4	5		
		4	CONSTRUCOES III	A		4		4	5		
		5	GEOGRAFIA URBANA	A		2		2	2,5		
		6	URBANISMO	A		2		2	2,5		
		7	SOCIOLOGIA	S	2			1	2		
		8	ECONOMIA	S	2			1	2		
					6	22	-	28	41		
3º	5º	PROJECTO III (TESE)			A						
		Opção ARQUITECTURA PROJECTO CONSTRUCOES PLANEAMENTO URBANO DIREITO				8	10	-	18	30	
		Opção PLANEAMENTO PROJECTO PLANEAMENTO URBANO PLANEAMENTO REGIONAL DIREITO				6	10	-	16	26	
		Opção RECUPERACAO ARQª e URBANA PROJECTO CONSTRUCOES PLANEAMENTO URBANO DIREITO				2	-	-	2	4	
						8	10	-	18	30	
						6	10	-	16	26	
						2	-	-	2	4	
						8	10	-	18	30	
						6	10	-	16	26	
						2	-	-	2	4	
							28	102	-	130	192



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