

		Teachin	g Guide				
	Identifyi	ng Data			2024/25		
Subject (*)	Construction 7 Code			630G02045			
Study programme	Grao en Estudos de Arquitectura	l					
		Descr	iptors				
Cycle	Period	Ye	ar	Туре	Credits		
Graduate	1st four-month period	Fit	fth	Obligatory	4.5		
Language	Spanish	1					
Teaching method	Face-to-face						
Prerequisites							
Department	Construcións ArquitectónicasCor	nstrucións e Est	ruturas Arquitectón	icas, Civís e Aeronáu	iticasEnxeñaría CivilExpresión		
	Gráfica ArquitectónicaMatemátic	asProxectos Ar	quitectónicos, Urba	nismo e Composiciór	ı		
Coordinador	Quintáns Eiras, Carlos Luis		E-mail	carlos.quintans	carlos.quintans@udc.es		
Lecturers	Quintáns Eiras, Carlos Luis		E-mail	carlos.quintans@udc.es			
	Seoane González, José Carlos			carlos.seoane@udc.es			
Web							
General description	-The relation between the differe	nt parts of the b	uilding as generato	rs of its design.			
	-The terrain and its implications i	n the design.					
	-Relation between roof and facade.						
	-Relation between enclosure and structure.						
	-Systems and structure.						
	-Systems and enclosures.						
-Water and building.							
	-The hollow.						
	-High buildings.						
	-Structures of large spans.						
	-Systematization and Construction						

	Study programme competences / results
Code	Study programme competences / results
A12	Ability to conceive, calculate, design, integrate in buildings and urban units and execute building structures (T)
A17	Ability to apply technical and construction standards and regulations
A25	Adequate knowledge of conventional construction systems and pathology
A26	Adequate knowledge of the physical and chemical characteristics, production procedures, pathology and use of building materials
A27	Adequate knowledge of industrialized building systems
A31	Knowledge of methods of measurement, assessment and expert's report
A32	Knowledge of the project of health and safety at the construction site
A63	Development, presentation and public review before a university jury of an original academic work individually elaborated and linked to any
	of the subjects previously studied
B9	Understanding the problems of the structural design, construction and engineering associated with building design and technical solutions
B10	Knowing the physical problems, various technologies and function of buildings so as to provide them with internal conditions of comfort
	and protection against the climate factors in the context of sustainable development
B11	"Knowing the industries, organizations, regulations and procedures involved in translating design concepts into buildings and
	integrating plans into planning "
B12	Understanding the relationship between people and buildings and between these and their environment, and the need to relate buildings
	and the spaces between them according to the needs and human scale
C1	Adequate oral and written expression in the official languages.
C3	Using ICT in working contexts and lifelong learning.
C4	Exercising an open, educated, critical, committed, democratic and caring citizenship, being able to analyse facts, diagnose problems,
	formulate and implement solutions based on knowledge and solutions for the common good



C5	Understanding the importance of entrepreneurial culture and the useful means for enterprising people.
C6	Critically evaluate the knowledge, technology and information available to solve the problems they must face
C7	Assuming as professionals and citizens the importance of learning throughout life
C8	Valuing the importance of research, innovation and technological development for the socioeconomic and cultural progress of society.

Learning outcomes				
Learning outcomes		Study programme		
	con	npetenc	es/	
		results		
Knowledge of the technical codes related to the specific type of building	A12			
	A17			
	A25			
	A26			
	A27			
	A31			
	A32			
Ability to analyze, identify, assess, and prioritize situations of a physical, psychological and environmental nature that must be	A12			
resolved with the construction design	A25			
	A26			
Integrating design capacity to achieve the compatible coexistence of each one of the different construction systems	A12	B9	C1	
	A17	B10	СЗ	
	A25	B11	C4	
	A26	B12	C5	
	A27		C6	
	A63		C7	
			C8	

	Contents
Торіс	Sub-topic
-The relation between the different parts of the building as	
generators of the design.	
-The terrain, implications in the design.	
-Relations between roof and facade.	
-Relations between enclosure and structure.	
-Systems and structure.	
-Systems and enclosures or partitions.	
-Water and building.	
-The hollow.	
-High buildings.	
-Structures of large spans.	
-Systematization in construction	

Planning					
Methodologies / tests	Competencies /	Teaching hours	Student?s personal	Total hours	
	Results	(in-person & virtual)	work hours		
Guest lecture / keynote speech	A12 A17 A25 A26	15	15	30	
	A27 A31				
Workbook	A12 A17	0	10	10	



A12 A17 A25 A26	0	60	60
A27 A31 A32 A63 B9			
B10 B11 B12 C1 C3			
C4 C5 C6 C7 C8			
A12 A17 A25 A26	0	11.5	11.5
A27			
	1	0	1
	A27 A31 A32 A63 B9 B10 B11 B12 C1 C3 C4 C5 C6 C7 C8 A12 A17 A25 A26	A27 A31 A32 A63 B9 B10 B11 B12 C1 C3 C4 C5 C6 C7 C8 A12 A17 A25 A26 0	A27 A31 A32 A63 B9 B10 B11 B12 C1 C3 C4 C5 C6 C7 C8 A12 A17 A25 A26 0 11.5

(\*)The information in the planning table is for guidance only and does not take into account the heterogeneity of the students.

	Methodologies
Methodologies	Description
Guest lecture /	Theoretical-practical explanation of the basic concepts that affect the coherence of the materials and systems used, of their
keynote speech	adequacy and that affect the design, execution and maintenance of the constructions.
Workbook	Readings. The students will read the books, articles and documentation indicated by the professors. To be able to have a
	record of the readings, students will have to present the requested exercise due in time and form.
Workshop	The Workshop is a space for the student to work and exchange conceived to facilitate the confluence of the different areas
	related to Architecture, guaranteeing the optimization of teaching resources and rationalizing the student's work. The
	Workshop aims to establish mechanisms of coordination and transversality throughout the studies, avoiding duplication and
	reiteration in the requirements. The realization of exercises, as the basis of teaching, in which the student finds an immediate
	identification between the conception of the design and its materialization, applying the knowledge of the lectures and
	readings.
	Partial deliveries are mandatory. Individualized teaching in practical classes. The control of the exercises is done personally
	with corrections and by means of the presentation of students' work in front the class, to be able to generate also a debate
	around them. This course -C7- has 3 credits in the total of the Workshop for the 10th quarter.
Supervised projects	The supervised works seek to verify the application of the knowledge acquired in the course and the acquired skills.

	Personalized attention				
Methodologies	Description				
Supervised projects	The workshop and the tutored work will have personalized attention from the professor for its development by the student in				
Workshop	open sessions with the classmates. The master sessions and exercises will have personalized attention from the professor to				
Guest lecture /	explain concepts and to resolve questions in tutorials.				
keynote speech					

		Assessment	
Methodologies	Competencies /	s / Description	
	Results		
Supervised projects	A12 A17 A25 A26	Supervised exercise	20
	A27		
Workshop	A12 A17 A25 A26	It is a critical exercise to evaluate the student's capacity for the construction detailing,	70
	A27 A31 A32 A63 B9	with the necessary conditions of suitability, adequacy and coherence.	
	B10 B11 B12 C1 C3		
	C4 C5 C6 C7 C8		
Guest lecture /	A12 A17 A25 A26	An independent exercise will have to be developed to complete the supervised	10
keynote speech	A27 A31	exercises	
Others			

Assessment comments



The Continuous Assessment method will be used, which assumes that class attendance will be controlled, and that part of the grade is indicated on the attitude and work of the student during the semester; but it must be completed also with theoretical-practical, conferences, tests to verify that the student assimilated the conceptual and procedural contents of the course. Carrying out and individual presentation of the proposed exercises. Carrying out teamwork and its presentation and individual

and / or team defense. The written tests throughout the course, which will consist of questions related to both the theoretical part and the exercises carried out during the course. Practices developed in class and those carried out under continuous tutoring. Any other activity that is defined in the Teaching Guide of the course, the student's work will be graded in different percentage: theoretical knowledge will be counted like 20% + supervised work10% of the final grade, while practical exercises will suppose the remaining 70%. In any case, the grade of the practical part of the course must be graded at least with a minimum of 5 out of 10 in order to be able to grade the course with a pass. The final grade of the student's work will be taking in account the delivers of the practical part of the course and a single final test, in which the theoretical and practical knowledge will be measured by the professor.

The evaluation criteria of the first and second opportunity are identical, they will have the same coefficients and the same minimum grade requirement as those indicated for the First Chance. The definition of the minimum requirements, schedule of deliveries, as well as the rest of the details, will be defined with more detail with the course schedule that is delivered at the beginning of the semester. The intermediate pass grades will be kept for the second opportunity, in which the students should complete those parts that were not graded with a pass, part of the course. Teaching to students that are part of mobility programs is adapted to the pedagogical conditions and special supervised exercises, as well as the different tests and exams. FIRST CHANCE: To be able to pass the practical part of the course.

-Classroom Practice and Shared Workshop Practice- students must make all the scheduled deliveries on time throughout the course. The total non-presentation of the exercises will suppose the qualification of NO-ATTEND. It is mandatory to attend the in-person

test. It is necessary to obtain at least a grade of 5 out of 10. A minimum attendance of 80% will be required to be able to attend the Classroom Practice part and the Shared Workshop Practice part of the course.

SECOND CHANCE: If the student does not pass the course at the first opportunity, he/she will present the same work required at the first opportunity on a scheduled date, making the corrections indicated by the professor and attending also the in-person test. All the parts will be assessed with the same coefficient for the final grade as has been defined for the first opportunity test.

	Sources of information
Basic	? Abalos y Herreros - TÉCNICA Y ARQUITECTURA EN LA CIUDAD CONTEMPORÁNEA . Ed. Nerea? Andrea
	Deplazes (2005) . CONSTRUIR LA ARQUITECTURA. Del material en bruto al edificio. Un manual. Ed. GG? Araujo,
	Ramón. LA ARQUITECTURA COMO TÉCNICA (1). ATC ediciones? Araujo, Ramón. CONSTRUIR EN ALTURA. Ed.
	Reverte? Araujo y Seco LA CASA EN SERIE (ETSAM). Escuela Técnica Superior Arquitectura Madrid? Baixas,
	Juan Ignacio. FORMA RESISTENTE. Ed. Arq. Santiago de Chile? Bruce Martin. LAS JUNTAS EN LOS EDIFICIOS.
	GG? Ford, Edward R. THE DETAILS OF MODERN ARCHITECTURE Vol 1/2, MIT press? Kenhet Frampton.
	ESTUDIOS DE UNA CULTURA TECTÓNICA- Akal? M. Fengler . ESTRUCTURAS RESISTENTES Y ELEMENTOS
	DE FACHADA . Gustavo Gili? Paricio Ansuategui, I - (1984) 1 LAS TECNICAS, 2 LOS ELEMENTOS 3 LA
	COMPOSICIÓN. ITEC? Paricio, Ignacio. LAS CUBIERTAS CON CHAPA LAS CLARABOYAS LA
	PROTECCIÓN SOLAR LA FACHADA DE LADRILLO. ed Bisagra.? Prieto, Eduardo. HISTORIA
	MEDIOAMBIELTAL DE LA ARQUITECTURA. Ed, Catedra ?Stike, James. DE LA CONSTRUCCIÓN A LOS
	PROYECTOS.Ed Reverte? Studer, Daniel, ETH Zürich - BUK . Construction: Manual. ISBN-13: 978-3035622263?
	Revista "TECTÓNICA" Nº 1 al 41 o bien en versión digital http://www.tectonica-online.com/?. https://atlas.archi/?
	Ministerio de la Vivienda. CODIGO TECNICO DE LA EDIFICACION
Complementary	

	Recommendations
	Subjects that it is recommended to have taken before
Construction 6/630G01037	
Facilities 2/630G01039	
Projects 9/630G01041	
	Subjects that are recommended to be taken simultaneously



Projects 10/630G01044

Subjects that continue the syllabus

## **Other comments**

The student is supposed to possess the knowledge of the previous Construction subjects, in order to address the passing of this subject. According to the documentation of the ETSAC Architect's Degree: "Students will have to simultaneously take all the subjects of the Workshop, so if it is the first time they enroll in subjects of a workshop they will have to do it in all the subjects of the same. Students will have to take prior to or simultaneously with a workshop all the subjects linked to previous workshops that they have not completely passed.

(\*)The teaching guide is the document in which the URV publishes the information about all its courses. It is a public document and cannot be modified. Only in exceptional cases can it be revised by the competent agent or duly revised so that it is in line with current legislation.