

		Teaching Guide				
	Identifying I	Data		2019/20		
Subject (*)	Construction 6			630G02037		
Study programme	Grao en Estudos de Arquitectura	I				
		Descriptors				
Cycle	Period	Year	Туре	Credits		
Graduate	2nd four-month period	Fourth	Obligatory	6		
Language	SpanishEnglish			I		
Teaching method	Face-to-face					
Prerequisites						
Department	Construcións e Estruturas Arquitectó	onicas, Civís e Aeronáuti	cas			
Coordinador	Raya de Blas, Antonio	E-m	ail antonio.raya@u	dc.es		
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Web						
General description	In this course, the students acquire the ability to design interior partition systems, vertical circulation systems and					
	interior/exterior finishes. They will learn the standards requirements in order to choose the appropriate system					
	(performance).					
	Each system will be analysed in order to know how to prescribe every solution, its repair and maintenance, as well as					
	estimate its cost, always in accordance with the architectural project.					

	Study programme competences / results
Code	Study programme competences / results
A13	Ability to conceive, calculate, design, integrate in buildings and urban units and execute interior partition walls, carpentry, stairs and other
	finished work (T)
A17	Ability to apply technical and construction standards and regulations
A19	Ability to maintain the finished work
A20	Ability to assess the construction works
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
A29	Knowledge of administrative, management and professional procedures
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
B1	Students have demonstrated knowledge and understanding in a field of study that is based on the general secondary education, and is
	usually at a level which, although it is supported by advanced textbooks, includes some aspects that imply knowledge of the forefront of
	their field of study
B2	Students can apply their knowledge to their work or vocation in a professional way and have competences that can be displayed by means
	of elaborating and sustaining arguments and solving problems in their field of study
B3	Students have the ability to gather and interpret relevant data (usually within their field of study) to inform judgements that include
	reflection on relevant social, scientific or ethical issues
B4	Students can communicate information, ideas, problems and solutions to both specialist and non-specialist public
B5	Students have developed those learning skills necessary to undertake further studies with a high level of autonomy
B6	Knowing the history and theories of architecture and the arts, technologies and human sciences related to architecture
B7	Knowing the role of the fine arts as a factor that influences the quality of architectural design
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			amme
			es/
		results	
Partition systems: The student must acquire the ability to design interior partition systems and know the standards	A13		C1
requirements in order to chose the appropriate system (performance).	A17		C3
The student must know how to prescribe the solution, the repair and the maintenance in accordance with the architectural	A19		C6
project.			C7
			C8
Interior / Exterior finishes: The student must acquire the ability to use the materials used as interior/exterior finishes and know	A13	B1	C1
the standards requirements in order to chose the appropriate system (performance).	A17	B2	C3
The student must know how to prescribe the solution, the repair and the maintenance in accordance with the architectural	A19	B3	C4
project.	A20	B4	C5
	A25	B5	C6
	A26	B6	C8
	A29	B7	
	A31		
	A32		
	A63		
Vertical circulation systems: The student must acquire the ability to design vertical circulation systems and know the standards	A13	B1	C1
requirements in order to chose the appropriate system (performance).	A17	B2	C5
The student must know how to prescribe the solution, the repair and the maintenance in accordance with the architectural	A25	B3	C6
project.	A26	B4	C7
	A29	B5	C8
	A31	B6	
	A32	B7	
		В9	
		B10	
		B11	
		B12	



The students must acquire the abilities to be a part of a multidisciplinary team (and to be able to lead it) that can design and	A20	B1	C4
build partition systems, vertical circulation systems as well as interior and exterior finishes;	A25	B2	C5
They will learn the standards requirements in order to choose the appropriate system (performance). They will be able to	A26	B3	
prescribe (from a ecological sensitivity point of view) every solution, its repair and its maintenance, as well as estimate its cost,		B4	
always in accordance with the architectural project.		B5	
		B6	
		B9	
		B10	
		B11	
		B12	

	Contents		
Торіс	Sub-topic		
Lesson 01 PARTITION SYSTEMS	Objectives, contents and sources of information.		
	Building-code requirements.		
	Drywalls.		
	Glass walls and movable/demountable partitions.		
	Masonry partitions.		
	Doors.		
Lesson 02 VERTICAL CIRCULATION SYSTEMS	Objectives, contents and sources of information.		
	Introduction.		
	Stairs and ramps.		
	Elevators.		
	Appendices.		
Lesson 03 INTERIOR FINISHES	Objectives, contents and sources of information.		
	Introduction.		
	Building-code requirements.		
	Floor systems.		
	Wall finishes.		
	Ceiling coverings.		
	Appendices.		
Lesson 04 EXTERIOR PAVEMENTS	Objectives, contents and sources of information.		
	Glossary.		
	Technical requirements.		
	Landscape construction.		
	Appendices.		

	Planning	g		
Methodologies / tests	Competencies /	Teaching hours	Student?s personal	Total hours
	Results	(in-person & virtual)	work hours	
Guest lecture / keynote speech	A13 A17 A19 A20	28	4	32
	A25 A26 A29 A31			
	A32 A63 B1 B3 B4 B5			
	B6 B7 B9 B10 B11			
	B12 C1 C3 C4 C5 C8			



Workshop	A13 A17 A19 A20	28	56	84
	A25 A26 A29 A31			
	A32 A63 B1 B2 B3 B4			
	B5 B6 B7 B9 B10 B11			
	B12 C1 C3 C4 C5 C6			
	C7 C8			
Case study	A13 A17 A19 A20	3	2	5
	A25 A26 A29 B1 B2			
	B3 B4 B5 B6 B7 B9			
	B10 B11 B12 C1 C3			
	C4 C5 C6 C7 C8			
Objective test	A13 A17 A19 A20	1	11	12
	A25 A26 A29 A31			
	A32 A63 B1 B2 B3 B4			
	B5 B6 B7 B9 B10 B11			
	B12 C1 C3 C4 C5 C6			
	C7 C8			
Multiple-choice questions	A13 A17 A25 A26	0	6	6
	A29 A31 A32 B1 B2			
	B3 B5 B7 B11 B12 C3			
	C6 C7			
Workbook	A17 A25 A26 A29	0	10	10
	A31 A32 B1 B3 B4 B5			
	B6 B7 B10 B11 C4			
	C5 C6 C7			
Personalized attention		1	0	1

(\*)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 /	Lectures aim to provide to the student the knowledge of several building systems (interior partition systems, vertical circulation
keynote speech	systems and interior/exterior finishes). The standards requirements in order to choose the appropriate system (performance)
	will be explained, and each system will be analysed in order to know how to prescribe every solution, its repair and
	maintenance, as well as estimate its cost, always in accordance with the architectural project.
	Reference documentation and several examples of buildings will be provided to learn from the mistakes and the decisions
	took. An intelligent knowledge is sought instead of rote learning.
	The student must pass an objective test and several multiple-choice questions.
Workshop	The workshop is a workspace where students develop their architectural projects, applying the skills learnt during lectures.
	They will learn the relationship between the compositional processes of architecture and its construction. Several subjects
	merge around the idea of architecture, ensuring optimization of teaching resources and streamlining the student's work. The
	workshop aims to establish mechanisms for coordination and mainstreaming across studies, avoiding duplication and
	repetition in the content to facilitate an effective transit between semesters. Different mandatory projects will be developed.
Case study	The professors will show architectural projects of outstanding quality in order to serve as a model to develop the students?
	projects during the workshop. The projects will be shown to teach the relationship between the compositional processes of
	architecture and its construction. It will be assessed within the workshop.
Objective test	The objective tests seek to verify the application of knowledge and the skills acquired by students. Students may use
	documentary support (books, own notes based on a practical case, etc.)
Multiple-choice	Students must complete four mandatory testing about different topics in order to promote learning and continuous
questions	assessment. These tests are carried out within the learning platform UDC Moodle.



Workbook	Specific readings support the lectures. These readings introduce the constructive topic, helping the students to understand
	technical texts. It will be assessed within the objective test.

	Personalized attention				
Methodologies	Description				
Workshop	Besides regular supervision during the workshop and case studies (the projects will be developed in open sessions in the				
Case study	presence of all students), professors offer weekly office hours, and they will encourage students to use them for solving doubts and questions.				

		Assessment	Qualification
Methodologies Competencies		Description	
	Results		
Guest lecture /	A13 A17 A19 A20	In order to pass the subject, attendance required is at least 75%. (First and second	0
keynote speech	A25 A26 A29 A31	opportunities)	
	A32 A63 B1 B3 B4 B5	When attendance is completed, it will be preserved in subsequent opportunities.	
	B6 B7 B9 B10 B11	Students must pass an objective test and several multiple-choice questions tests. The	
	B12 C1 C3 C4 C5 C8	final mark will be the average of them, only if they get at least a 4 score (out of 10) in	
		the objective test.	
Workshop	A13 A17 A19 A20	Attendance required: 80%.	50
	A25 A26 A29 A31	The assessment for compulsory projects is not restricted to content; the authorship	
	A32 A63 B1 B2 B3 B4	must be proved.	
	B5 B6 B7 B9 B10 B11	There will be no compensation between this evaluation and other qualifications of the	
	B12 C1 C3 C4 C5 C6	subject.	
	C7 C8	In the assessment, the delivery of each case study will be considered.	
		Students must get at least a 5 score (out of 10). If so, the final mark will be an average	
		between the workshop and the objective test/multiple-choice questions tests.	
		In order to pass, first year students must deliver every part of the workshop. If not,	
		they will obtain a "NO PRESENTADO" (absent from assessment).	
		According to the documentation from ETSAC degree in Architectural Studies memory,	
		a Board of Assessment will be convened to analyze the results and resolve, if	
		appropriate, specific cases of student assessment.	
		Students who fail the workshop in June will have a second chance in July. If they	
		obtain a "NO PRESENTADO" (absent from assessment), they cannot	
		attend the second opportunity (July).	
		Students who fail the specific part of the subject (Construction 6) (June and July) must	
		develop in consecutive opportunities, with the appropriate adjustments, the project	
		failed.	
		This will happen in all opportunities and calls.	
		Students with partial validations or exchange programs will have a set treatment for	
		each case.	
Case study	A13 A17 A19 A20	The professors will show architectural projects of outstanding quality in order to serve	0
	A25 A26 A29 B1 B2	as a model to develop the students? projects during the workshop. The projects will be	
	B3 B4 B5 B6 B7 B9	shown to teach the relationship between the compositional processes of architecture	
	B10 B11 B12 C1 C3	and its construction. It will be assessed within the workshop.	
	C4 C5 C6 C7 C8		



Objective test	A13 A17 A19 A20	The objective tests seek to verify the application of knowledge and the skills acquired	25
	A25 A26 A29 A31	by students. Students may use documentary support (books and own notes). Students	
	A32 A63 B1 B2 B3 B4	must pass an objective test and several multiple-choice questions tests. The final	
	B5 B6 B7 B9 B10 B11	mark will be the average of them, only if they get at least a 4 score (out of 10) in the	
	B12 C1 C3 C4 C5 C6	objective test.	
	C7 C8	Objective test: when students get at least a 5 score (out of 10), mark will be preserved	
		until July (included). Students will not pass the objective test if they made serious	
		mistakes such:	
		Acoustical bridges; finishes: absence of expansion joints; stairs: wrong dimensions;	
		contact between incompatible materials.	
Workbook	A17 A25 A26 A29	Workbook will be assessed within the objective test.	0
	A31 A32 B1 B3 B4 B5		
	B6 B7 B10 B11 C4		
	C5 C6 C7		
Multiple-choice	A13 A17 A25 A26	Students must complete four mandatory testing about different topics. They must get	25
questions	A29 A31 A32 B1 B2	at least a 5 score (out of 10) in each test (including penalizations). Three attempts in	
	B3 B5 B7 B11 B12 C3	each are allowed with cumulative penalty of two points (first attempt: 0 points penalty,	
	C6 C7	second attempt: 2 points, third attempt: 4 points, etc.).	
		When students get at least a 5 score (out of 10), mark will be preserved until July	
		(included) (for each test independently).	
		These tests are carried out within the learning platform UDC Moodle.	

Assessment comments

The program of the subject, delivered at the beginning of the course,

will include information about minimum contents, delivery dates, dates of

multiple choice tests, lessons, partial deliveries and everything needed to

study the subject.

In order to promote continuous assessment, attendance will be

controlled and the final mark will depend on the attitude and the work of the

student. Students must pass theoretical and practical tests (Objective test,

Multiple-choice questions tests), the workshop and case study. This will

confirm if the student assimilated the concepts, the competences, and methods

of work of the subject.

Students will pass the subject when they get the minimum attendance and the next scores: workshop, at least a 5 score (out of 10); multiple-choice questions, at least 5 (out of 10); objective test, at least 4 score (out of 10). If they do so, the final mark will be an average between the workshop score and the average between objective test +model score and multiple-choice question tests average.

If students do not get the minimum attendance or do not deliver every part of the subject (Objective test, Multiple-choice questions tests, Workshop and Case study), then they will obtain a "NO PRESENTADO" (absent from assessment) (in each opportunity).

Students who failed in June will be able to pass the subject at the

second opportunity (July), but if they obtain a "NO PRESENTADO"

(absent from assessment), they cannot attend the second opportunity.

Sources of information		
Basic	Las indicadas en cada lección	
Complementary	Las indicadas en cada lección	

Recommendations

Subjects that it is recommended to have taken before



Urbanism 4/630G02032 Systems 1/630G02030 Structures 4/630G02034 Architectural Design 6/630G02026
Structures 4/630G02034
Architectural Design 6/630G02026
Construction 5/630G02033
Subjects that are recommended to be taken simultaneously
Systems 2/630G02039
Structures 5/630G02038
Architectural Design 7/630G02031
Subjects that continue the syllabus
Construction 7/630G02045
Legal Architecture/630G02046
Other comments
According to the documentation from ETSAC degree in Architectural
Studies: "Students must study simultaneously all the subjects within the
workshop if it is the first time they sign up" "Students must
study (previously or simultaneously) all subjects related to previous workshops
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.