



Teaching Guide

Teaching Guide				
Identifying Data			2020/21	
Subject (*)	Construction 6	Code	630G02037	
Study programme	Grao en Estudos de Arquitectura			
Descriptors				
Cycle	Period	Year	Type	Credits
Graduate	2nd four-month period	Fourth	Obligatory	6
Language	SpanishEnglish			
Teaching method	Face-to-face			
Prerequisites				
Department	Construcións e Estruturas Arquitectónicas, Cívís e Aeronáuticas			
Coordinador	Antelo Tudela, Enrique	E-mail	enrique.antelo@udc.es	
Lecturers	Amo Perez, Maria Pilar De Antelo Tudela, Enrique Bermudez Graiño, Jose Manuel	E-mail	m.pilar.amo@udc.es enrique.antelo@udc.es jose.bermudez@udc.es	
Web				
General description	<p>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).</p> <p>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.</p>			



Contingency plan

Two contingency plans are designed, based on two scenarios.

SCENARIO 1

A first scenario is proposed in which, due to the capacity of the classrooms or other reasons, face-to-face teaching of expository classes (lectures) is not feasible, while interactive and workshop teaching (groups of fewer number of students), can continue to be taught in person.

In this situation, the lectures will be given in an online format, using the Microsoft Teams platform, included in Office365.

The objective test will be carried out in person, as provided in the teaching guide, as long as the capacity of the classrooms allows it, guaranteeing, in any case, the necessary security measures. If this is not possible, it will be done online, using the Moodle or Microsoft Teams platforms. If this last case occurs, those students who, for justified reasons, related to computer equipment or connection, duly accredited, could not take the exams corresponding to the objective tests online, will have the right to carry out said tests orally, or another alternative mechanism, being an essential requirement to request it by email on the same day as the exam, after which they will be duly summoned for its completion.

There are no changes in the contents of the subject, nor in the mechanisms of personalized attention to the student, nor in the assessment criteria.

SCENARIO 2

A second scenario is proposed in which, in the event of possible confinement, any type of classroom teaching is not feasible. In such case, the planned changes are as follows:

1. Changes in contents

No changes will be made.

2. Methodologies

* Teaching methodologies that are maintained:

All:

- Guest lecture / keynote speech.
- Workshop.
- Objective test.
- Multiple-choice questions.
- Workbook.

* Teaching methodologies that are modified:

When no face-to-face teaching is possible, alternative strategies will be adopted to facilitate and guarantee learning and the proper development of the course. To this end, the following modifications are proposed with respect to the teaching guide:

- Guest lecture / keynote speech: lectures will be taught online, using the Microsoft Teams platform. Within the Moodle platform, as in the case of face-to-face teaching, students will have access to the subject's lessons, as well as various complementary and supporting documentation.

- Workshop: it will be adapted to the telematic form, using the Microsoft Teams platform. In the same way that it happens in face-to-face teaching, tasks will be enabled on the Moodle platform for partial and final deliveries of the course practices.
- Objective test: it will be done online, using the Moodle or Microsoft Teams platforms. Those students who, for justified reasons, related to the computer equipment or connection, duly accredited, could not take the exams corresponding to the objective tests online, will have the right to carry out said tests orally or another alternative mechanism, being a requirement It is essential to request it by email the same day of the exam, after which they will be duly called for.
- Multiple-choice questions: No changes will be made.
- Workbook: No changes will be made.

3. Mechanisms for personalized attention to students

- Email: for daily use to make inquiries and request virtual meetings to solve doubts.
- Moodle: depending on the needs of the student body, resources such as forums, etc. may be enabled to formulate the necessary queries.
- Microsoft Teams: 1 weekly session in the time slot assigned to the subject in the School's class calendar. It can also serve as a communication channel for individual or group attention in the tutoring hours of each teacher.

4. Modifications in the assessment

No changes will be made.

* Assessment notes:

The criteria that appear in the teaching guide are maintained, with the exception of the references to the calculation of attendance, which will only be carried out in relation to the face-to-face sessions that have taken place until the moment in which the classroom activity is suspended. In any case, an excellent percentage of regular participation in telematic activities will be taken into account to pass and grade the subject.

5. Modifications to the bibliography or webgraphy

No changes will be made.



Study programme competences	
Code	Study programme competences
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	Study programme competences	
Partition systems: The student must acquire the ability to design interior partition systems and know the standards requirements in order to chose the appropriate system (performance).	A13	C1
	A17	C3
The student must know how to prescribe the solution, the repair and the maintenance in accordance with the architectural project.	A19	C6
		C7
		C8



<p>Interior / Exterior finishes: The student must acquire the ability to use the materials used as interior/exterior finishes and know the standards requirements in order to chose the appropriate system (performance).</p> <p>The student must know how to prescribe the solution, the repair and the maintenance in accordance with the architectural project.</p>	<p>A13 A17 A19 A20 A25 A26 A29 A31 A32 A63</p>	<p>B1 B2 B3 B4 B5 B6 B7</p>	<p>C1 C3 C4 C5 C6 C8</p>
<p>Vertical circulation systems: The student must acquire the ability to design vertical circulation systems and know the standards requirements in order to chose the appropriate system (performance).</p> <p>The student must know how to prescribe the solution, the repair and the maintenance in accordance with the architectural project.</p>	<p>A13 A17 A25 A26 A29 A31 A32</p>	<p>B1 B2 B3 B4 B5 B6 B7 B9 B10 B11 B12</p>	<p>C1 C5 C6 C7 C8</p>
<p>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 build partition systems, vertical circulation systems as well as interior and exterior finishes;</p> <p>They will learn the standards requirements in order to choose the appropriate system (performance). They will be able to prescribe (from a ecological sensitivity point of view) every solution, its repair and its maintenance, as well as estimate its cost, always in accordance with the architectural project.</p>	<p>A20 A25 A26</p>	<p>B1 B2 B3 B4 B5 B6 B9 B10 B11 B12</p>	<p>C4 C5</p>

Contents	
Topic	Sub-topic
Lesson 01 PARTITION SYSTEMS	<p>Objectives, contents and sources of information.</p> <p>Building-code requirements.</p> <p>Drywalls.</p> <p>Glass walls and movable/demountable partitions.</p> <p>Masonry partitions.</p> <p>Doors.</p>
Lesson 02 VERTICAL CIRCULATION SYSTEMS	<p>Objectives, contents and sources of information.</p> <p>Introduction.</p> <p>Stairs and ramps.</p> <p>Elevators.</p> <p>Appendices.</p>



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				
Methodologies / tests	Competencies	Ordinary class hours	Student?s personal work hours	Total hours
Guest lecture / keynote speech	A13 A17 A19 A20 A25 A26 A29 A31 A32 A63 B1 B3 B4 B5 B6 B7 B9 B10 B11 B12 C1 C3 C4 C5 C8	30	8	38
Workshop	A13 A17 A19 A20 A25 A26 A29 A31 A32 A63 B1 B2 B3 B4 B5 B6 B7 B9 B10 B11 B12 C1 C3 C4 C5 C6 C7 C8	30	60	90
Objective test	A13 A17 A19 A20 A25 A26 A29 A31 A32 A63 B1 B2 B3 B4 B5 B6 B7 B9 B10 B11 B12 C1 C3 C4 C5 C6 C7 C8	2	10	12
Multiple-choice questions	A13 A17 A25 A26 A29 A31 A32 B1 B2 B3 B5 B7 B11 B12 C3 C6 C7	1	0	1
Workbook	A17 A25 A26 A29 A31 A32 B1 B3 B4 B5 B6 B7 B10 B11 C4 C5 C6 C7	0	8	8
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 / keynote speech	<p>Lectures aim to provide to the student the knowledge of several building systems (interior partition systems, vertical circulation 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.</p> <p>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.</p> <p>Within the Moodle platform, students will have access to the subject's lessons, as well as various complementary and supporting documentation.</p> <p>The student must pass an objective test and several multiple-choice questions.</p>
Workshop	<p>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 (workshop + interactive classes).</p>
Objective test	<p>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.)</p>
Multiple-choice questions	<p>Students must complete four mandatory testing about different topics in order to promote learning and continuous assessment. These tests are carried out within the learning platform UDC Moodle.</p>
Workbook	<p>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.</p>

Personalized attention

Methodologies	Description
Workshop	<p>Besides regular supervision during the workshop and practical classes (the projects will be developed in open sessions in the presence of all students), professors offer weekly office hours, and they will encourage students to use them for solving doubts and questions.</p>

Assessment

Methodologies	Competencies	Description	Qualification
Guest lecture / keynote speech	<p>A13 A17 A19 A20 A25 A26 A29 A31 A32 A63 B1 B3 B4 B5 B6 B7 B9 B10 B11 B12 C1 C3 C4 C5 C8</p>	<p>In order to pass the subject, attendance required is at least 75%. (First and second opportunities)</p> <p>When attendance is completed, it will be preserved in subsequent opportunities.</p> <p>Students must pass an objective test and several multiple-choice questions tests. The final mark will be the average of them, only if they get at least a 4 score (out of 10) in the objective test.</p>	0



Workshop	A13 A17 A19 A20 A25 A26 A29 A31 A32 A63 B1 B2 B3 B4 B5 B6 B7 B9 B10 B11 B12 C1 C3 C4 C5 C6 C7 C8	Attendance required: 80%. The assessment for compulsory projects is not only restricted to content; the authorship must be proved. There will be no compensation between this evaluation and other qualifications of the subject. In this assessment, all the tasks related to the subject 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.	50
Objective test	A13 A17 A19 A20 A25 A26 A29 A31 A32 A63 B1 B2 B3 B4 B5 B6 B7 B9 B10 B11 B12 C1 C3 C4 C5 C6 C7 C8	The objective tests seek to verify the application of knowledge and the skills acquired by students. Students may use documentary support (books and own notes). Students must pass an objective test and several multiple-choice questions tests. The final mark will be the average of them, only if they get at least a 4 score (out of 10) in the objective test. 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.	25
Workbook	A17 A25 A26 A29 A31 A32 B1 B3 B4 B5 B6 B7 B10 B11 C4 C5 C6 C7	Workbook will be assessed within the objective test.	0
Multiple-choice questions	A13 A17 A25 A26 A29 A31 A32 B1 B2 B3 B5 B7 B11 B12 C3 C6 C7	Students must complete four mandatory testing about different topics. They must get at least a 5 score (out of 10) in each test (including penalizations). Three attempts in each are allowed with cumulative penalty of two points (first attempt: 0 points penalty, 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.	25

Assessment comments



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) in each; 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 + 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.

Students with partial validations or exchange programs will have a set treatment for each case.

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.

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
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.