

|                     |   | Teaching Gu          | ide                |                        |                         |  |
|---------------------|---|----------------------|--------------------|------------------------|-------------------------|--|
|                     | Identifying   | Data                 |                    |                        | 2020/21                 |  |
| Subject (*)         | Construction 6  |                      |                    | Code                   | 630G02037               |  |
| Study programme     | Grao en Estudos de Arquitectura   |                      |                    |                        | '                       |  |
|                     |   | Descriptors          | 3                  |                        |                         |  |
| Cycle               | Period  | Year                 |                    | Туре                   | Credits                 |  |
| Graduate            | 2nd four-month period   | Fourth               |                    | Obligatory             | 6                       |  |
| Language            | SpanishEnglish  |                      |                    |                        |                         |  |
| Teaching method     | Face-to-face  |                      |                    |                        |                         |  |
| Prerequisites       |   |                      |                    |                        |                         |  |
| Department          | Construcións e Estruturas Arquitectónicas, Civís e Aeronáuticas   |                      |                    |                        |                         |  |
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| Web                 |   |                      |                    |                        |                         |  |
| General description | In this course, the students acquire  | the ability to desig | gn interior partit | tion systems, vertical | circulation systems and |  |
|                     | interior/exterior finishes. They will le  | arn the standards    | requirements i     | 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.   |                      |                    |                        |                         |  |



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:

AII:

- 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.
- 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 mean  |
|      | of elaborating and sustaining arguments and solving problems in their field of study   |
| В3   | 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   |
| В6   | Knowing the history and theories of architecture and the arts, technologies and human sciences related to architecture   |
| В7   | Knowing the role of the fine arts as a factor that influences the quality of architectural design  |
| В9   | 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 pr   |     |           |
|  | COI | mpetences |
| 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  | С3 |
| The student must know how to prescribe the solution, the repair and the maintenance in accordance with the architectural              | A19 | В3  | 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 | В3  | C6 |
| project.  | A26 | B4  | C7 |
|   | A29 | B5  | C8 |
|   | A31 | В6  |    |
|   | A32 | В7  |    |
|   |     | 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 | В3  |    |
| 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  |    |
|   |     | В6  |    |
|   |     | В9  |    |
|   |     | B10 |    |
|   |     | B11 |    |
|   |     | B12 |    |

| Contents                               |  |  |  |  |
|--|--|--|--|--|
| Topic                                  | Sub-topic 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                         |                      |                           |             |
|--|----------------------------------|----------------------|---------------------------|-------------|
| Methodologies / tests                          | Competencies                     | Ordinary class       | Student?s personal        | Total hours |
|  |                                  | hours                | work hours                |             |
| Guest lecture / keynote speech                 | A13 A17 A19 A20                  | 30                   | 8                         | 38          |
|  | A25 A26 A29 A31                  |                      |                           |             |
|  | A32 A63 B1 B3 B4 B5              |                      |                           |             |
|  | B6 B7 B9 B10 B11                 |                      |                           |             |
|  | B12 C1 C3 C4 C5 C8               |                      |                           |             |
| Vorkshop                                       | A13 A17 A19 A20                  | 30                   | 60                        | 90          |
|  | A25 A26 A29 A31                  |                      |                           |             |
|  | A32 A63 B1 B2 B3 B4              |                      |                           |             |
|  | B5 B6 B7 B9 B10 B11              |                      |                           |             |
|  | B12 C1 C3 C4 C5 C6               |                      |                           |             |
|  | C7 C8                            |                      |                           |             |
| Objective test                                 | A13 A17 A19 A20                  | 2                    | 10                        | 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                  | 1                    | 0                         | 1           |
|  | A29 A31 A32 B1 B2                |                      |                           |             |
|  | B3 B5 B7 B11 B12 C3              |                      |                           |             |
|  | C6 C7                            |                      |                           |             |
| Workbook                                       | A17 A25 A26 A29                  | 0                    | 8                         | 8           |
|  | 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 fo | or guidance only and does not to | ake into account the | heterogeneity of the stud | lents.      |

|               | 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.   |
|                 | Within the Moodle platform, students will have access to the subject's lessons, as well as various complementary and               |
|                 | supporting documentation.  |
|                 | 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     |
|                 | (workshop + interactive classes).  |
| 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 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. |  |  |  |

| Assessment      |                     |  |               |  |
|-----------------|---------------------|--|---------------|--|
| Methodologies   | Competencies        | Description  | Qualification |  |
| 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 only restricted to content; the              |    |
|                 | A32 A63 B1 B2 B3 B4 | authorship 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 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.   |    |
| 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               | 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.  |    |
|                 | 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

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  |

| 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.