



Teaching Guide

Identifying Data					2020/21
Subject (*)	Architectural Design 4	Code	630G02016		
Study programme	Grao en Estudos de Arquitectura				
Descriptors					
Cycle	Period	Year	Type	Credits	
Graduate	1st four-month period	Third	Obligatory	6	
Language	SpanishGalicianEnglish				
Teaching method	Face-to-face				
Prerequisites					
Department	Proxectos Arquitectónicos, Urbanismo e Composición				
Coordinador	Crespo Gonzalez, Cristobal	E-mail	cristobal.crespo@udc.es		
Lecturers	Crespo Gonzalez, Cristobal Martinez Raido, Jose Luis Mesejo Conde, Mónica Muñoz Fontenla, Luis W Pedros Fernandez, Oscar Prieto López, Juan Ignacio	E-mail	cristobal.crespo@udc.es jose.luis.martinez.raido@udc.es monica.mesejo@udc.es l.w.munoz.fontenla@udc.es oscar.pedros@udc.es juan.prieto1@udc.es		
Web	dpauc.udc.es/				
General description	The aim of this subject is the student's approach to the development of his own project methodology, analyzing and applying the necessary conditions to undertake the fact of creativity from a conceptual point of view. There is a regard over some other activities of an artistic and creative nature, far beyond the specifically architectural issues, as well as the presence of a thematic thread that links and relates the successive works. This framework should allow to work on all exercises of the quarter with innovative tools, in order to stimulate students to diversity in the approach to their own proposals. The groups will share experiences, skills and personal references, gradually enriching their cultural base and improving their work tools around the project.				



Contingency plan	<p>1. Modifications to the contents:</p> <ul style="list-style-type: none"> - No changes will be made to the content. - In the event of a contingency, the necessary measures will be taken to guarantee the quality of the teaching, as well as the integrity of the contents. <p>2. Methodologies</p> <p>*Teaching methodologies that are maintained:</p> <ul style="list-style-type: none"> - Master sessions - Guided discussions - Mentorized projects (with personalized attention - counting for evaluation) - Personalized attention - The same teaching methodologies will be maintained. Both the master sessions, as well as the objective tests and the monitoring of the supervised works, will be adapted to virtual environments and supports, if necessary. <p>*Teaching methodologies that are modified</p> <ul style="list-style-type: none"> - Changes in teaching methodologies are not foreseen. <p>3. Mechanisms for personalized attention to students:</p> <ul style="list-style-type: none"> - Email: Daily use. To make inquiries, request virtual meetings to answer questions and monitor supervised work. - Moodle: According to the needs of the students. They have up-to-date information on the activities of the subject and the contents of the exhibition teaching, as well as thematic forums associated with the modules of the subject. - Teams: - 2 weekly sessions in small groups to monitor the progress of supervised work, in the time slot assigned to the subject in the school calendar of the School. - 1 monthly coordination meeting on the subject and with the rest of the subjects that make up the Workshop, for follow-up and support in carrying out supervised work. This dynamic allows a standardized monitoring and adjusted to the learning needs of the students to develop the work of different subjects. - Tutorials: programmed through the specific task of Moodle, the tutorials will be adapted to the needs of the students, and will be carried out through meetings in Teams, both individually and in small groups of no more than 6 students, attending to the specificities of queries. <p>4. Modifications in the evaluation:</p> <ul style="list-style-type: none"> - No modifications are considered in the objectives or in the evaluation methodologies. <p>Assessment remarks:</p> <ul style="list-style-type: none"> - The objective tests may be carried out on-line. - Foreign students in exchange programs may substitute the objective test for a supervised work proposed by the teacher. - Students will be required to participate actively in online teaching, under similar conditions to those required in this Guide for face-to-face teaching, to guarantee authorship and supervision of the work, and to be able to pass the course. <p>5. Modifications to the bibliography or webgraphy:</p> <ul style="list-style-type: none"> - The bibliographic resources of the subject are available in Moodle. Specific contributions of consultation materials -in digital support- will be provided through the Moodle platform.
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Study programme competences / results	
Code	Study programme competences / results
A34	Ability to design, implement and develop sketches and drafts, concept designs, developed designs and technical designs (T)
A37	Ability to develop functional programs for buildings and urban spaces (T)
A39	Ability to remove architectural barriers (T)
A42	Ability to catalogue the built and urban heritage and plan its protection (T)
A45	Ability to design and execute urban layouts and urbanization, gardening and landscape design projects (T)
A51	Adequate knowledge of the methods of studying the social requirements, living conditions, habitability and basic housing programmes



A53	Adequate knowledge of the architectural, urban and landscape traditions of Western culture, as well as their technical, climatic, economic, social and ideological foundations.
A55	Adequate knowledge of the relationship between cultural patterns and social responsibilities of the architect
A56	Adequate knowledge of the foundations of vernacular architecture
A57	Adequate knowledge of urban sociology, theory, economics and history
A58	Adequate knowledge of the methodological foundations of territorial, metropolitan and urban planning.
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
B9	Understanding the problems of the structural design, construction and engineering associated with building design and technical solutions
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 / results		
By passing this course, students should be able to:	A34	B1	C1
	A37	B2	C3
- Knowing how to manage intellectual and material tools to undertake the conception and development of an architectural design of a small scale and low complexity.	A39	B3	C4
	A42	B4	C5
	A45	B5	C6
- Know how to relate the different scales of analysis and realization of the project, from planning to detail, including certain elements of constructive definition.	A51	B6	C7
	A53	B9	C8
	A55	B12	
- Be able to develop the technical documentation required for a project of low complexity and scale, showing accurately its formal settings and developing certain constructive aspects, and considering basic aspects of technical and planning regulations.	A56		
	A57		
	A58		
	A63		
- Use various tools and techniques to properly handle the processes of creation and ideation.			

Contents	
Topic	Sub-topic



THEME 1 - PROJECT METHODOLOGY I	<ul style="list-style-type: none"> - Conceptual and designing tools. Concept and Project - Contemporary Projects Theory - Methodological Tools. Drawing and Designing - Launch Systems for the Architectural Design - Form, Function and Symbolism
THEME 2 - ARCHITECTURE AND TERRITORY	<ul style="list-style-type: none"> - Design and Architecture: Physical environment and Social context. - Architecture as Landscape, Landscape as Architecture. - Architectures without program, from the referential to the symbolism. - The detached house. The private habitat - The house: building, dwelling, thinking
THEME 3 - INTRODUCTION TO ARCHITECTURAL REGULATIONS	<ul style="list-style-type: none"> - Accessibility and safety of use - Dimensions regulations and habitat, urban conditions and Civil Law - Fire protection in buildings. - Introduction to sustainability and energy efficiency.
EXERCISE 1	<ul style="list-style-type: none"> - Urban Analysis - Draft of a symbolic, referential or useful element at an urban scale, with a non-relevant program. - Development of certain building elements
EXERCISE 2	<ul style="list-style-type: none"> - Urban Analysis - Draft of a family house, in a social, cultural or landscape context of relevance. - Development (structural, construction and materials) of the physical materiality of the project.

Planning				
Methodologies / tests	Competencies / Results	Teaching hours (in-person & virtual)	Student?s personal work hours	Total hours
Introductory activities	A58 B5 B6 C6	2	0	2
Document analysis	A37 A42 B1 B3	0	12	12
Collaborative learning	B2 B4 C4 C5	4	10	14
Directed discussion	A51 A53 A55 C1	5	0	5
Diagramming	A34	0	8	8
Workshop	A34 A39 A45 A63 C3 C8	15	20	35
Guest lecture / keynote speech	A56 A57	15	0	15
Supervised projects	B9 B12 C7	14	20	34



Objective test	B1 B2	1	0	1
Student portfolio	A34 A39 A42 A45 A51 A53 A55 A56 A57 A58 B1 B3 C3 C6 C8	0	20	20
Personalized attention		4	0	4

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

Methodologies	
Methodologies	Description
Introductory activities	In the first classes of this course, different tests will be posed to students in order to know their level of architectural expression. These tests will be done in the classroom.
Document analysis	Before starting the development work material in the Workshop, will proceed to the analysis of documentary sources related to the theme by using audiovisual documents, bibliographical, documentary reports, graphic panels, photographs, models, articles, informational texts , applicable regulations, etc.. The so formed groups (teacher - student) analyze the available documentation and complete it, producing a synthesis of various documentary sources. This analysis is complemented with interventions and architecture professionals from other fields, to be invited to conduct talks and discussions with development of specific issues and personal experiences.
Collaborative learning	The class is divided into small working groups, where students work together to solve the tasks assigned by the teacher. The group is organized to get the most information possible and share it (analysis of the plot, finding examples of regulations, general construction site layout, data or in situ measurements, infographic treatment documentation obtained, etc..). This work is guided by the teacher. Its objective is to optimize both individual and group learning.
Directed discussion	Both the grupal and individual work is exposed publicly to encourage group members to participate in the creative process of self and others, in a free, informal and spontaneous way
Diagramming	The data obtained in the analysis, as well as the intentions of the project, will be expressed in simplified graphic form in the early stages of each job. These are the phases of background information and draft.
Workshop	Projects are developed by combining different methodologies and tests: attending exhibitions and lectures, by discussion of specific problems of the program, etc. The student works mainly on practical tasks in each exercise, always under the support and supervision of teachers.
Guest lecture / keynote speech	Expository teaching is organized around subject content. Periodically, conferences and / or exhibitions related to the topic at hand in each year will be held, in which the rapporteur will present orally and / or graphical information to students.
Supervised projects	It aims to promote independent learning of students, under the guidance of the teacher. It refers to learning "how to do", where the student is responsible of his own formation.
Objective test	There will be an objective test on the contents presented in the sessions, which form the theoretical and normative framework of the subject.
Student portfolio	As a result of their work at the end of the semester, each student will have developed its own portfolio, accessible through the Moodle teaching platform. This document, elaborated through the group sessions and the workshop, will serve as a basis for personnel qualification and student curriculum vitae.

Personalized attention	
Methodologies	Description



Supervised projects Workshop Student portfolio Directed discussion	<p>The student receives personalized attention by his/her group's teacher, concerning the work that is developing in the subject and in the Workshop. In the Workshop he/she also will be able to comment and get critical revision by the teachers of other subjects and groups, to compare opinions and criteria and confront them with their own.</p> <p>The student's portfolio will be subject to reviews custom to observe its evolution and verify his/hers own.</p> <p>Specific conditions related to mobility for outgoing and incoming students:</p> <ul style="list-style-type: none">- This subject foresees exclusively on-going assessment for all students, even for those in mobility programs, under similar requirements of evaluation and attendance. Specific attention may be provided to incoming students for linguistic reasons or obvious differences between the schools of origin and destination.
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Assessment			
Methodologies	Competencies / Results	Description	Qualification
Student portfolio	A34 A39 A42 A45 A51 A53 A55 A56 A57 A58 B1 B3 C3 C6 C8	<p>The final result of the whole work done in the course will be reflected in the student's personal portfolio, available and accessible through Moodle.</p> <p>The results will be evaluated through a supervised and guided teaching process, where personal effort and intellectual development of the student should appear reflected in the final documentation.</p>	80
Objective test	B1 B2	Instrumental knowledge contained within the agenda of expository teaching of the course will be evaluated through an objective test.	20

Assessment comments
<p>In order to pass the course, the student must meet the following requirements:</p> <ol style="list-style-type: none">1- Submit all proposed work, in good time and in an appropriate manner.2- Attend classes and workshop on a regular basis. (A minimum attendance of 80% is required) <p>The students in any of the following circumstances will be considered as ABSENT:</p> <ol style="list-style-type: none">1. By not submitting work in good time and in an appropriate manner, or submitting it incomplete. Work not matching the documentation required in the workshop shall be considered as incomplete.2. Not accomplishing minimum attendance requirements.3. Not attending the final test exam. <p>IMPORTANT: To overcome the subject, a minimum mark will be required in each one of the works and tests.</p> <p>Tests of different opportunities may allow students to complete and modify all or part of their work to overcome part or all the subject.</p>

Sources of information



<p>Basic</p>	<ul style="list-style-type: none"> - VVAA (2003). Teoría de la Arquitectura. Del Renacimiento a la actualidad. Taschen - ASCHNER ROSELLI, Juan Pablo (2009). ¿Cómo concebir un proyecto arquitectónico?. deArq (Revista digital) num. 05 - NEUFERT, Ernst (2007). Arte de Proyectar en Arquitectura. Barcelona, G.G. - TANIZAKI, Junichiro (1933). El elogio de la sombra. Siruela - ZUMTHOR, Peter (). Thinking architecture. Birkhäuser - AUGÉ, Marc (). Los no lugares. Gedisa - Aldo Rossi (1966). La Arquitectura de la Ciudad. Barcelona, GG - VVAA (2009). O río no urbano: do Umia ao Danubio. A Coruña, UDC - VVAA (2007). Normas do hábitat galego. http://igvs.xunta.es/ipecos-opencms-portlet/export/sites/default/PortalVivenda/Biblioteca/normashabi - VVAA (2010). Código Técnico de la Edificación. http://www.codigotecnico.org/web/recursos/documentos/ - Ábalos, Iñaki (2000). La buena vida: visita guiada a las casas de la modernidad. Barcelona: Gustavo Gili - Smithson, Alison; Smithson, Peter (2001). Cambiando el arte de habitar. Barcelona: Gustavo Gili - Banham, Reyner (1960). Teoría y diseño arquitectónico en la era de la máquina . Barcelona: Paidós - Steadman, Philip (1982). Arquitectura y naturaleza: las analogías biológicas en el diseño. Madrid:Hermann Blume - PEDRÓS FERNÁNDEZ, Óscar (2020). El Motor de los Sueños. Diez momentos en la génesis del proyecto arquitectónico. A Coruña: Labirinto de Paixóns <p>Breves lecturas de carácter xeral.</p>
<p>Complementary</p>	<ul style="list-style-type: none"> - DAZA, Ricardo (2000). Buscando a Mies. Barcelona, Actar Publishers - KOOLHAAS, Rem (2007). Conversaciones con estudiantes. Barcelona, G.G. - MONTEYS, X., FUERTES, P. (2001). Casa Collage. Barcelona, G.G. - LE CORBUSIER (2005). Una pequeña casa. Buenos Aires, Ediciones Infinito - PEREC, Georges (2004). La vida, instrucciones de uso. Barcelona, Anagrama - PAWSON, John (1998). Minimum. Londres, Phaidon - HERZOG, J., DE MEURON, P. (2002). Natural History. Baden, Lars Müller - TORRES TUR, Elías (2005). Luz cenital. Barcelona, Col·legi d'Arquitectes de Catalunya - RYBCZYNSKI, Witold (2003). La casa, historia de una idea. Madrid, Nerea - Albers, Josef (1979). La interacción del color. Alianza, Madrid <p>Diversos ensayos sobre las componentes específicas del proyecto.</p>

Recommendations

Subjects that it is recommended to have taken before

Architectural Analysis 2/630G01017
 Urban Planning 1/630G01018
 Construction 2/630G02020
 Architectural Design 3/630G02011
 Structures 1/630G02019

Subjects that are recommended to be taken simultaneously

Construction 3/630G01022
 Urban Planning 2/630G01024
 Structures 2/630G02023

Subjects that continue the syllabus

Projects 6/630G01026

Other comments



(*)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.