UNIVERSIDADE DA CORUÑA

Teaching Guide					
Identifying Data					**2021/22**
Subject (*)	Architectural Design 5			**Code**	630G02021
Study programme	Grao en Estudos de Arquitectura				
Descriptors					
Cycle	**Period**	**Year**		**Type**	**Credits**
Graduate	2nd 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	
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General description	This subject is designed to consolidate each student's individual methodology to approach the project, allowing them to verify how the launch of the project under a disciplinary and conceptual perspective is useful to cope with diverse programs, both in scale and complexity. This semester will emphasize the role of the building concerning landscape and environment. Mutual influence between the built and its surroundings is considered, under conditions ranging from intervention in a consolidated urban set of heritage value, to new developing areas in the urban fringe. Likewise, students will work on the concepts of collective uses, common and relationship spaces and privacy conditions, circulations, accesses and meeting spaces, aspects of representativeness and image, character of outdoor spaces, pavements, landscaping , courtyards and inner patios, lighting, etc.				

Contingency plan	1. Modifications to the contents:
	- 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.
	2. Methodologies
	*Teaching methodologies that are maintained:
	- 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.
	*Teaching methodologies that are modified
	- Changes in teaching methodologies are not foreseen.
	3. Mechanisms for personalized attention to students:
	- 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.
	4. Modifications in the evaluation:
	- No modifications are considered in the objectives or in the evaluation methodologies.
	Assessment remarks:
	- 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.
	5. Modifications to the bibliography or webgraphy:
	- 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.

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)
A38	"Ability to take part in the preservation, restoration and renovation of the built heritage (T) "
A39	Ability to remove architectural barriers (T)
A40	Ability to practise architectural criticism
A46	Ability to apply standards and urban regulations
A51	Adequate knowledge of the methods of studying the social requirements, living conditions, habitability and basic housing programmes

A52	"Adequate knowledge of ecology, sustainability and the principles of conservation of energy and environmental resources. "
A53	Adequate knowledge of the architectural, urban and landscape traditions of Western culture, as well as their technical, climatic, economic, social and ideological foundationsxicos.
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
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
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

Upon passing this subject, the student must be able to:	A34	B1	C1
	A37	B2	C3
- Know how to handle material tools of a certain complexity and strengthen their cultural and intellectual arguments in order to undertake the ideation and development of a medium-scale and complex architectural project.	A38	B3	C4
	A39	B4	C5
	A40	B5	C6
- Know how to relate the different scales of analysis and concretion of the project, from the urban to the detail, including elements of constructive definition, such as finishes and enclosures, and design and structural definition.	A46	B6	C7
	A51	B9	C8
	A52	B10	
- Be able to develop adequate technical documentation for a project of medium complexity and scale, indicating with precision its formal configuration, its material, constructive, structural and facilities aspects, taking into account aspects of technical and urban regulations.	A53	B12	
	A55		
	A56		
	A57		
- Apply conditioning systems taking into account technical regulations and criteria related to sustainability, passive energy responses and optimization of energy resources.	A58		
	A63		

Contents	
Topic	**Sub-topic**
TOPIC 1 - METHODOLOGY OF THE PROJECT II	- Organizational tools. Program and structure
	- Cultural tools. Tradition, history and culture of the place.
	- Building and environment: energy and passive conditioning.
	- The collective use. Spaces for relationship and meeting.
	- Processing inner spaces. Material, color, lighting.
	- Processing outdoor spaces. Pavements, gardening, courtyards.
TOPIC II - ARCHITECTURE AND THE CITY	- Public and institutional architecture.
	- Architecture and heritage. The historic city. The inherited towns.
	- Architecture and landscape. Physical and cultural environment.
	- Architectural language. Materiality and structure
TOPIC III - INTRODUCTION TO PROJECT REGULATIONS II	- Conditioning of spaces. Lighting, ventilation, systems.
	- Technical facilities in buildings.
	- Fire safety and evacuation infrastructures.
	- Heritage, restoration and architectural intervention.
EXERCISE 1 - ARCHITECTURAL EXECUTIVE PROJECT	- Urban analysis.
	- Project of an urban facility or building with structural relevance in an unconsolidated environment.
	- Development of the materiality of the proposal: construction and structure.

IACOBUS Erasmus+ PROGRAMME - BUILDING THE EUROPEAN HERITAGE	- This course includes one of the projects of the IACOBUS Erasmus + International Convention, which is carried out with the OTH Architecture Schools of Regensburg (Germany), ENSACF of Clermont-Ferrand (France) and NUACA of Yerevan (Armenia)
	- The agreement has an annual and rotating nature. Its object and theme affect the recovery of European Architectural Heritage and attention to refugees, and is configured through an International Workshop and a final presentation in the format of an architecture competition.
	- This project may overlap or replace any of the exercises proposed within the contents of the subject.
	- Students participate on a voluntary involvement basis.
EXERCISE 2 - ARCHITECTURAL BLUEPRINT	- Contextual analysis.
	- Project of intervention on the natural and / or built heritage.

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	A40 A37 B1 B3	0	12	12
Collaborative learning	B4 C3 C1	4	10	14
Directed discussion	B1 B4 C1 C3 C4	5	0	5
Diagramming	A34 A37 A58 B3 B4	0	8	8
Workshop	A34 A37 A38 A39 A46 A51 A52 A53 A63	15	20	35
Guest lecture / keynote speech	A56 A57 B9 B10 B12 C8	15	0	15
Supervised projects	A34 A38 A46 A52 A55 B9 C6	14	20	34
Objective test	A53 A55 A57 B6 C3	1	0	1
Student portfolio	A34 A37 A38 A39 A46 A51 A52 A55 A56 A58 A63 B2 B4 B5 B9 B10 B12 C3 C4 C5 C7 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	Students are divided into small working groups, in which they work together to solve the tasks assigned by the teacher. The group is organized to obtain and elaborate the information 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 group and the individual works are exposed in public, to encourage group members to intervene in their own and others' creative process in a free, informal and spontaneous context.
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 is intended to promote the autonomous learning of students, under the guidance of the teacher. It refers to the learning of "how to do things"; it is the student who assumes responsibility for his training.
Objective test	There will be an objective test on the contents presented in the expository sessions, which configure 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**
Workshop Directed discussion Supervised projects Student portfolio	Students will receive personalized attention by their group's teacher, concerning the work developed in the subject and in the Workshop. In the Workshop students will also 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. The student's portfolio will be discussed through periodical and personalized reviews, to observe its evolution and verify its authorship. Specific conditions related to mobility for outgoing and incoming students: - 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.

Assessment			
Methodologies	**Competencies / Results**	**Description**	**Qualification**
Objective test	A53 A55 A57 B6 C3	Os coñecementos instrumentais contidos no temario de docencia expositiva do curso serán avaliados mediante unha proba oxectiva.	15

Student portfolio	A34 A37 A38 A39 A46 A51 A52 A55 A56 A58 A63 B2 B4 B5 B9 B10 B12 C3 C4 C5 C7 C8	O resultado final dos traballos realizados na materia plasmarase no portafolios persoal do alumno, dispoñible e accesible a través da plataforma docente Moodle. Avalíanse os resultados, pero a través dun proceso docente tutelado e guiado, onde o esforzo persoal e a evolución intelectual do alumno deberán aparecer reflectidos na documentación final.	85

Assessment comments
To pass the course, the student must meet thefollowing requirements: 1- Submit all proposed works, within the time limits and by correct means. 1- Submit all proposed works, within the time limits and by correct means. 2- Attend classes and workshop on a regular basis. (A minimum attendance of 80% is required) Students in any of the following circumstances will be considered as ABSENT: 1. By not submitting works in scheduled terms, or incomplete. Works not matching the documentation required in the workshop shall be considered as incomplete. 2. Not complying the minimum attendance requirements. 3. Not attending the final test exam. NOTE: TO BE ABLE TO PASS THE SUBJECT, THE FOLLOWING MINIMUM GRADES WILL BE REQUIRED: 3 POINTS IN THE OBJECTIVE TEST AND 4 POINTS IN EACH ONE OF THE WORKS TO BE EVALUATED. In accordance with the contents of the Architectural Bachelor's Degree memory, a Workshop Evaluation Board may be convened to analyze the overall results of the Workshop and decide, where appropriate, on specific cases of students? evaluation. In accordance with the memory of the Degree in Architecture, students who do not overcome this subject within the two opportunities of each call, must attend the Workshop the following year. The tests of the different opportunities will allow students to complete and/or totally or partially modify the works presented in the Workshop, in order to pass the subject.

Sources of information	
Basic	- 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/ - VVAA (2008). Un complejo hotelero en Randan. A Coruña, UDC - VVAA (2009). Escuela de música y albergue en St. Klara, Regensburg. A Coruña, UDC - VVAA (2007). La plaza de Pontevedra y el frente marítimo del Orzán. A Coruña, UDC - PROYECTOS III (Plan Antiguo) (). IACOBUS: Rehabilitación del Patrimonio Europeo. http://blogiacobus.wordpress.com/ - AUGÉ, Marc (). Los no lugares. Gedisa - ZUMTHOR, Peter (). Thinking architecture. Birkhäuser - ASCHNER ROSELLI, Juan Pablo (2009). ¿Cómo concebir un proyecto arquitectónico?. deArq (Revista digital) num. 05 - TANIZAKI, Junichiro (1933). El elogio de la sombra. Siruela - NEUFERT, Ernst (2007). Arte de Proyectar en Arquitectura. Barcelona, G.G. - DAZA CAICEDO, Ricardo (2008). Buscando a Mies. Barcelona: ACTAR - PEDRÓS FERNÁNDEZ, Óscar (2020). El Motor de los Sueños. Diez momentos en la génesis del proyecto arqutiectónico. A Coruña: Labirinto de Paixóns - DEPLACES, Andrea (2010). Construir la arquitectura: del material en bruto al edificio. Barcelona: Gustavo Gili

Complementary	- TORRES TUR, Elías (2005). Luz cenital. Barcelona, Collegi d´Arquitectes de Catalunya
	- MONTEYS, X., FUERTES, P. (2001). Casa Collage. Barcelona, G.G.
	- KOOLHAAS, Rem (2007). Conversaciones con estudiantes. Barcelona, G.G.
	- DAZA, Ricardo (2000). Buscando a Mies. Barcelona, Actar Publishers
	- SLOTERDIJK, Peter (1998-2004). Esferas . Siruela
	- DELEUZE, Gille, GUATTARI, Félix (1994). Mil Mesetas. Capitalismo y esquizofrenia. Pre-textos
	- BANHAM, Reyner (1965). TEORIA Y DISEÑO ARQUITECTONICO EN LA ERA DE LA MAQUINA . Buenos Aires: Nueva Visión
	- BACHELARD, Gaston (). LA POETICA DE LA ENSOÑACION . Madrid: Fondo de Cultura Económica de España
	- BAÑA HEIM, José (1980). COSTA DE LA MUERTE. Historia y anecdotario de sus naufragios. A Coruña: Gráficas Venus

Recommendations
Subjects that it is recommended to have taken before
Construction 3/630G01022
Urban Planning 2/630G01024
Architectural Design 4/630G02016
Structures 2/630G02023
Subjects that are recommended to be taken simultaneously
Construction 4/630G01027
Urban Planning 3/630G01029
Structures 3/630G02028
Subjects that continue the syllabus
Projects 7/630G01031
Architectural Design 6/630G02026
Other comments