UNIVERSIDADE DA CORUÑA

Teaching Guide				
Identifying Data				2017/18
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	Obligatoria	6
Language	SpanishGalicianEnglish			
Teaching method	Face-to-face			
Prerequisites				
Department	Proxectos Arquitectónicos, Urbanismo e Composición			
Coordinador		E-mail		
Lecturers	Crespo Gonzalez, Cristobal Martinez Raído, Jose Luis Mesejo Conde, Mónica Muñoz Fontenla, Luis W Pedros Fernandez, Oscar Prieto López, Juan Ignacio Rosales Noves, Xose Manuel	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 jose.manuel.rosales.noves@udc.es	
Web				
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.			

Study programme competences	
Code	Study programme competences
A1	"Ability to apply graphical procedures to the representation of spaces and objects (T) "
A2	Ability to conceive and represent the visual attributes of objects and master proportion and drawing techniques, including digital ones (T)
A3	Knowledge of spatial representation systems and projections adapted and applied to architecture
A4	Knowledge of the analysis and the theory of form and the laws of visual perception adapted and applied to architecture and urbanism
A5	"Knowledge of the metric and projective geometry adapted and applied to architecture and urbanism "
A6	"Knowledge of graphic surveying techniques at all stages, from the drawing sketches to scientific restitution, adapted and applied to architecture and urbanism "
A7	"Knowledge of the principles of general mechanics, statics, mass geometry and vector and tensor fields, adapted and applied to architecture and urbanism "
A10	"Knowledge of basic topography, hypsometry, mapping and earthmoving techniques adapted and applied to architecture and urbanism "
A12	Ability to conceive, calculate, design, integrate in buildings and urban units and execute building structures (T)
A13	Ability to conceive, calculate, design, integrate in buildings and urban units and execute interior partition walls, carpentry, stairs and other finished work (T)
A14	Ability to conceive, calculate, design, integrate in buildings and urban units and execute exterior walls and cladding, roofing and other structural work (T)
A17	Ability to apply technical and construction standards and regulations
A25	Adequate knowledge of conventional construction systems and pathology

A34	Ability to design, implement and develop sketches and drafts, concept designs, developed designs and technical designs (T)
A35	Ability to design, implement and develop urban projects (T)
A39	Ability to remove architectural barriers (T)
A41	Ability to solve the passive environmental conditioning, including thermal and acoustic insulation, climate control, energy efficiency and natural lighting (T)
A44	Ability to develop civil work projects (T)
A45	Ability to design and execute urban layouts and urbanization, gardening and landscape design projects (T)
A48	Adequate knowledge of general theories of form, composition and architectural types
A49	Adequate knowledge of the general history of architecture
A50	Adequate knowledge of the methods of studying the processes of symbolization, practical functions and ergonomics
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.
A54	Adequate knowledge of aesthetics and theory and history of fine arts and applied arts
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.

Learning outcomes	
Learning outcomes	**Study programme competences**

	A1 A2 A3 A4 A5 A6 A7 A10 A12 A13 A14 A17 A25 A34 A35 A39 A41 A44 A45 A48 A49 A50 A51 A52 A53 A54 A55 A56 A57 A58		

Contents	
Topic	**Sub-topic**
TEMA 1 - METODOLOXÍA DO PROXECTO II	- Linguaxe Arquitectónica I: Estructura e Forma. - Linguaxe Arquitectónica II: Composición e Material. - Ferramentas organizativas. Programa, uso e función. - Ferramentas culturais. Tradición, historia e cultura do lugar. - O uso colectivo. Espazos comúns, de relación e de reunión. - Tratamento de espazos interiores. Material, cor, iluminación. - Tratamento de espazos exteriores. Pavimentos, axardinamento, patios.
TEMA II - ARQUITECTURA E CIDADE	- Arquitectura pública e institucional. - Arquitectura e patrimonio. A cidade histórica. A cidade herdada

TEMA III - INTRODUCCIÓN Á NORMATIVA DE PROXECTO II	- Acondicionamento dos espazos. Iluminación, ventilación, sistemas. - Instalacións dos edificios. - Condicións de seguridade contra incendios e evacuación. - Patrimonio, restauración e intervención arquitectónica.
IACOBUS PROGRAMME - BUILDING THE EUROPEAN HERITAGE	This course hosts the project resulting from the International Convention IACOBUS, held in collaboration with the Schools of Architecture Regensburg (Germany) and Clermont-Ferrand (France). The agreement is of an annual priodicity and rotating nature. Its object and subject deals with the recovery of the European Architectural Heritage. It is configured by an International Workshop and a final presentation in a project competition format. The proposed project may overlap or replace any of the exercises outlined within the course content. Participation in this program is voluntary for students.
EJERCICIO 1 - O PROXECTO BÁSICO	- Análise urbana. - Proxecto de edificio público ou institucional nun ámbito non consolidado

Planning				
Methodologies / tests	Competencies	Ordinary class hours	Student?s personal work hours	Total hours
Introductory activities	A10 A48 A49 A54	2	0	2
Document analysis	A3 A4 A5 A50 A51	0	12	12
Collaborative learning	A53 A55 A56 A57 A58	4	10	14
Directed discussion	A25 A41 A52	5	0	5
Diagramming	A1 A2	0	8	8
Workshop	A6 A7 A12 A13 A14 A17 A34 A35 A39 A44 A45	15	20	35
Guest lecture / keynote speech	A25 A48 A49 A52 A53 A54	15	0	15
Supervised projects	A1 A2 A10 A12 A13 A14 A17 A25 A34 A35 A41 A44	14	20	34
Objective test	A34 A44 A45 A48	1	0	1
Student portfolio	A48 A49 A50 A51 A52 A53 A54 A55 A56 A57 A58	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	Nas primeiras clases do curso formúlase ao alumno unha proba gráfica que permita coñecer o nivel previo co que parte o alumno. A devandita proba realízase na aula.
Document analysis	Antes de iniciar o desenvolvemento material dos traballos no TALLER, procederase á análise das fontes documentais relacionadas co tema proposto mediante a utilización de documentos audiovisuais, bibliográficos, reportaxes documentais, paneis gráficos, fotografías, maquetas, artigos, textos informativos, normativa de aplicación, etc. Os grupos (profesor - alumnos) analizan a documentación dispoñible e amplíana, elaborando unha síntese das distintas fontes documentais. Compleméntase esta análise con intervencións de profesionais da arquitectura e doutros campos, que serán invitados a efectuar charlas e coloquios con desenvolvemento de temas concretos e experiencias persoais.
Collaborative learning	A clase organízase en pequenos grupos de traballo, onde os alumnos traballan conxuntamente para resolver as tarefas asignadas polo profesor. Organízase ao grupo para obter a máxima información posible e compartila (análise da parcela, busca de exemplos, de normativas, construción da maqueta xeral do emprazamento, toma de datos ou medicións in situ, tratamento infográfico da documentación obtida, etc.). Este traballo está guiado de forma presencial polo profesor asignado. Trátase de optimizar a aprendizaxe individual e o do grupo.
Directed discussion	Tanto o traballo de grupo coma o individual expóñense de xeito público para incitar os membros do grupo a intervir no proceso creativo propio e alleo, de forma libre, informal e espontánea.
Diagramming	Os datos obtidos nas análises, así como as intencións do proxecto, exprésanse de forma gráfica simplificada nas primeiras fases de cada traballo. Son as fases de información previa e anteproxecto.
Workshop	Os proxectos desenvólvense mediante a combinación de diversas metodoloxías e probas: asistencia a exposicións, conferencias, análise de problemas concretos do programa. O alumno realiza tarefas eminentemente prácticas en cada un dos exercicios do curso, sempre baixo o apoio e supervisión do profesorado.
Guest lecture / keynote speech	Periodicamente realízanse conferencias ou exposicións, relacionadas co tema a tratar en cada exercicio. Onde o relator expón de forma oral e/ou gráfica a información aos alumnos.
Supervised projects	Preténdese promover a aprendizaxe autónoma dos estudantes, baixo a tutela do profesor. Refírese á aprendizaxe de "como facer as cousas", é o estudante o que asume a responsabilidade da súa formación. Un claro exemplo do traballo tutelado é o que se desenvolve ao abeiro do PROGRAMA INTERNACIONAL: IACOBUS
Objective test	
Student portfolio	Como resultado do seu traballo ao final do cuadrimestre, o alumno terá elaborado o seu portafolios da materia, accesible a través da plataforma docente Moodle. Este obxecto final, desenvolvido a través das sesións en grupos e no taller, servirá de base á cualificación e curriculuim persoal do alumno.

Personalized attention	
Methodologies	**Description**
Supervised projects Workshop Directed discussion	O alumno recibe atención personalizada concernente ao traballo que está a desenvolver na materia e no Taller, a través do profesor do grupo ao que fose asignado. No Taller, ademais, terá a posibilidade de comentar e obter revisións críticas por parte dos profesores dos demais grupos e materias, para poder contrastar opinións e criterios e confrontalos cos propios. O portafolios do alumno será obxecto de revisións personalizadas, para observar a súa evolución e constatar a súa autoría.

Assessment			
Methodologies	**Competencies**	**Description**	**Qualification**
Student portfolio	A48 A49 A50 A51 A52 A53 A54 A55 A56 A57 A58	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.	80

Objective test	A34 A44 A45 A48	Os coñecementos instrumentais contidos no temario de docencia expositiva do curso serán avaliados mediante unha proba oxectiva.	20

Assessment comments
In order to pass the course, the student must meet the following requirements: 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) The students in any of the following circumstances will be considered as ABSENT: 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 minimun attendance requirements. 3. Not attending the final test exam. IMPORTANT: To overcome the subject, a minimum mark will be required in each one of the works and tests. Tests of different opportunities may allow students to complete and modify all or part of their work to overcome part or all the subject.

Sources of information	
Basic	- NEUFERT, Ernst (2007). Arte de Proyectar en Arquitectura. Barcelona, G.G. - TANIZAKI, Junichiro (1933). El elogio de la sombra. Siruela - ASCHNER ROSELLI, Juan Pablo (2009). ¿Cómo concebir un proyecto arquitectónico?. deArq (Revista digital) num. 05 - ZUMTHOR, Peter (). Thinking architecture. Birkhäuser - AUGÉ, Marc (). Los no lugares. Gedisa - PROYECTOS III (Plan Antiguo) (). IACOBUS: Rehabilitación del Patrimonio Europeo. http://blogiacobus.wordpress.com/ - VVAA (2007). La plaza de Pontevedra y el frente marítimo del Orzán. A Coruña, UDC - VVAA (2009). Escuela de música y albergue en St. Klara, Regensburg. A Coruña, UDC - VVAA (2008). Un complejo hotelero en Randan. A Coruña, UDC - VVAA (2010). Código Técnico de la Edificación. http://www.codigotecnico.org/web/recursos/documentos/ - VVAA (2007). Normas do hábitat galego. http://igvs.xunta.es/ipecos-opencms-portlet/export/sites/default/PortalVivenda/Biblioteca/normashabi
Complementary	- DELEUZE, Gille, GUATTARI, Félix (1994). Mil Mesetas. Capitalismo y esquizofrenia. Pre-textos - SLOTERDIJK, Peter (1998-2004). Esferas . Siruela - 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. - TORRES TUR, Elías (2005). Luz cenital. Barcelona, Collegi d´Arquitectes de Catalunya - 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

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

(*)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.