



Teaching Guide

Teaching Guide				
Identifying Data				2015/16
Subject (*)	Proxectos 4		Code	630G01016
Study programme	Grao en Arquitectura			
Descriptors				
Cycle	Period	Year	Type	Credits
Graduate	2nd four-month period	Second	Obligatoria	6
Language	SpanishGalicianEnglish			
Teaching method	Face-to-face			
Prerequisites				
Department	Proxectos Arquitectónicos e Urbanismo			
Coordinador	Lopez Bahut, Maria Emma	E-mail	emma.lopez.bahut@udc.es	
Lecturers	Barge Ferreiros, Santiago Casabella López, Juan José Di Felice Vázquez, Mario Francisco Iglesia Perez, Manuel de la Lopez Bahut, Maria Emma Muñoz Fontenla, Luis W Pedros Fernandez, Oscar Santos Zas, Gabriel Arturo	E-mail	s.barge@udc.es juan.casabella.lopez@udc.es m.difelice@udc.es m.iglesia1@udc.es emma.lopez.bahut@udc.es l.w.munoz.fontenla@udc.es oscar.pedros@udc.es gabriel.santos.zas@udc.es	
Web				
General description	In Project Design 4 we choose a geographical urban area of Galicia for the placement and development of the course exercises, depending on the interest of the place in terms of urban, culture and patrimony and also in terms of its appropriateness and adequacy with the objectives and exercises considered. The fourth-month period exercises, placed in the same geographical area, are ordered in sequential phases related one to another. One of the primary objectives is to teach the students to do project design starting from the urban environment, for which it must develop specific abilities and strategies. The teaching methodologies are based on ?learning by doing? in a concrete placement. The issues of the two exercises proposed for the fourth-month period, will have an increasing difficulty. The objective being that of favoring a progression in the learning capabilities with which the student could fill more stimulated. The concept of architectural space, its formal expression, and its relation with the physical environment should make up an essential part of the acquired knowledge.			

Study programme competences

Code	Study programme competences
A1	PROXECTO BÁSICO ARQUITECTÓNICO E URBANO: aptitude ou capacidade para aplicar os principios básicos formais, funcionais e técnicos á concepción e deseño de edificios e de conxuntos urbanos, definindo as súas características xerais e as prestacións que se acadan.
A4	PROGRAMACIÓN FUNCIONAL: aptitude ou capacidade para elaborar programas de edificios, considerando os requisitos de clientes e usuarios, analizando os precedentes e as condicións de localización aplicando estándares e establecendo dimensións e relacións de espazos e equipos.
A5	INTERVENCIÓN NO PATRIMONIO EDIFICADO: aptitude ou capacidade para intervenir nos edificios de valor histórico, coordinar estudos históricos e arqueolóxicos sobre eles, elaborar os seus plans directores de conservación e redactar e executar os proxectos de restauración e rehabilitación.



A6	PROXECTO DE ESTRUTURAS: aptitude ou capacidade para concibir, deseñar, calcular, integrar en edificios e conxuntos urbanos e executar as solucións estruturais, así como para asesorar tecnicamente sobre estes aspectos.
A7	SUPRESIÓN DE BARREIRAS: aptitude ou capacidade para deseñar e executar edificios e espazos urbanos aptos para as persoas con diferentes capacidades físicas ou para adaptar con este fin os xa existentes.
A9	CRÍTICA ARQUITECTÓNICA: aptitude ou capacidade para analizar morfolóxica e tipoloxicamente a arquitectura e a cidade e para explicar os precedentes formais e programáticos das solucións proxectuais.
A10	REPRESENTACIÓN ESPACIAL: aptitude ou capacidade para aplicar, tanto manual como informaticamente, os sistemas de representación gráfica, dominando os procedementos de proxección e corte, os aspectos cuantitativos e selectivos da escala e a relación entre o plano e a profundidade.
A12	PROXECTO DE ACONDICIONAMENTO AMBIENTAL: aptitude ou capacidade para concibir, deseñar, calcular, integrar en edificios e conxuntos urbanos e executar solucións de acondicionamento ambiental, incluíndo o illamento térmico e acústico, o control climático, o rendemento enerxético e a iluminación natural, así como para asesorar tecnicamente sobre estes aspectos.
A13	IDEACIÓN GRÁFICA: aptitude ou capacidade para concibir e representar graficamente a figura, a cor, a textura e a luminosidade dos obxectos e dominar a proporción e as técnicas de debuxo, incluídas as informáticas.
A16	PROTECCIÓN DO PATRIMONIO EDIFICADO: aptitude ou capacidade para realizar tarefas de catalogación monumental, definir medidas de protección de edificios e conxuntos históricos e redactar plans de delimitación e conservación destes últimos.
A19	ADECUACIÓN MEDIOAMBIENTAL: aptitude ou capacidade para realizar estudos medioambientais e paisaxísticos, e definir medidas de protección fronte ao impacto ambiental.
A20	PROXECTO DE ESPAZOS LIBRES: aptitude ou capacidade para redactar e executar trazados urbanos e proxectos de urbanización e de xardinería, así como os de obra civil e complementaria asociada a eles.
A37	ANÁLISE DE FORMAS: comprensión ou coñecemento das leis da percepción visual e da proporción, as teorías da forma e da imaxe, as teorías estéticas da cor e os procedementos de estudo fenomenolóxico e analítico das formas arquitectónicas e urbanas.
A38	SISTEMAS DE REPRESENTACIÓN: comprensión ou coñecemento dos sistemas de representación espacial e a súa relación cos procedementos de ideación gráfica e de expresión visual das distintas fases do deseño arquitectónico e urbanístico.
A40	XEOMETRÍA: comprensión ou coñecemento da xeometría métrica e proxectiva como fundamentos do trazado, deseño e composición arquitectónicos da comprensión dos sistemas de representación espacial.
A42	TEORÍA XERAL DA ARQUITECTURA: comprensión ou coñecemento das teorías da arquitectura pasadas e presentes, especialmente as relativas á interdependencia de formas, usos e técnicas, á estrutura formal, ao estudo dos tipos e aos métodos de composición de edificios e espazos abertos.
A43	HISTORIA XERAL DA ARQUITECTURA: comprensión ou coñecemento da historia xeral da arquitectura, tanto en si mesma como na súa relación coas artes, as técnicas, as ciencias humanas, a historia do pensamento e os fenómenos urbanos.
A45	BASES DA ARQUITECTURA NATIVA: comprensión ou coñecemento das tradicións arquitectónicas, urbanísticas e paisaxísticas de carácter nacional, local e vernáculo e dos seus fundamentos técnicos, climáticos, económicos, sociais e ideolóxicos.
A47	ECOLOXÍA E SOSTENIBILIDADE: comprensión ou coñecemento da responsabilidade do arquitecto respecto aos principios básicos de ecoloxía, de sostenibilidade e de conservación dos recursos e do medio ambiente na edificación, o urbanismo e a paisaxe.
A48	SOCIOLOXÍA E HISTORIA URBANAS: comprensión ou coñecemento das relacións entre o medio físico e o medio social e as bases da teoría e a historia dos asentamentos humanos, da socioloxía, da economía urbana e da estadística como fundamentos dos estudos territoriais e urbanísticos.
A52	MÉTODOS URBANÍSTICOS: comprensión ou coñecemento dos fundamentos metodolóxicos do planeamento urbano a diferentes escalas e da ordenación territorial e metropolitana, na súa relación co deseño urbano e edificatorio.
B1	Learn how to learn
B2	Resolver problemas de forma efectiva.
B3	Aplicar un pensamento crítico, lóxico e creativo.
B4	Traballar de forma autónoma con iniciativa.
B5	Traballar de forma colaborativa.
B6	Comportarse con ética e responsabilidade social como cidadán e como profesional.
B7	Comunicarse de maneira efectiva nun entorno de traballo.
B8	Visión espacial.
B9	Creatividade.
B10	Sensibilidade estética.



B11	Capacidade de análise e síntese.
B12	Toma de decisións.
B13	Imaxinación.
B14	Habilidade gráfica xeral.
B15	Capacidade de organización e planificación.
B16	Motivación pola calidade.
B17	Cultura histórica.
B18	Razoamento crítico.
B19	Traballo nun equipo de carácter interdisciplinar.
B20	Sensibilidade cara a temas medioambientais.
B21	Intuición mecánica.
B22	Traballo en colaboración con responsabilidades compartidas.
B23	Capacidade de xestión da información.

Learning outcomes			
Learning outcomes		Study programme competences	
Desarrollar las capacidades perceptivas para aprehender las relaciones complejas que se dan en un lugar fomentando la observación y la experimentación in situ, tomando como uno de los puntos de partida del desarrollo proyectual la relación con los elementos preexistentes en el ámbito de actuación		A1	B1
		A4	B2
		A5	B3
		A7	B4
		A10	B5
		A13	B6
		A16	B7
		A19	B8
		A20	B9
		A37	B10
		A38	B11
		A40	B12
		A42	B13
		A43	B14
		A45	B15
		A47	B16
		A48	B17
		A52	B18
			B19
			B20
			B21
			B22
			B23



Capacidad para conceptualizar sistemas organizativos a partir de procesos de búsqueda para desvelar las estructuras de nuestro entorno y facilitar la adaptabilidad del objeto proyectado al medio.	A1 A4 A5 A7 A9 A10 A12 A13 A16 A37 A38 A40 A42 A45 A47 A48	B8 B9 B10 B11 B12 B13 B14 B15 B16 B17 B18 B19 B20	
Capacidad para acometer pequeños proyectos arquitectónicos de carácter académico, en los que se ven reflejados, de forma sintética, programas, emplazamientos y contextos de la realidad cotidiana	A1 A4 A5 A6 A9 A10 A13 A16 A37 A38 A40 A42 A43 A45 A47 A48	B8 B9 B10 B11 B12 B13 B14 B15 B16 B17 B18 B19 B20	
Capacidad para desarrollar el proyecto en torno a su lógica funcional, programática y espacial.	A1 A4 A5 A6 A9 A10 A13 A16 A37 A38 A40 A42 A43 A45 A47 A48	B8 B9 B10 B11 B12 B13 B14 B15 B16 B17 B18 B19 B20 B21	



Capacidad para adoptar las primeras decisiones sobre aspectos materiales y constructivos del proyecto	A1	B8	
	A4	B9	
	A5	B10	
	A6	B11	
	A7	B12	
	A9	B13	
	A13	B14	
	A16	B15	
	A37	B16	
	A38	B17	
	A40	B18	
	A42	B19	
	A43	B20	
	A45		
	A48		
Capacidad para relacionar las medidas antropométricas con las dimensiones del espacio y de los objetos.	A1	B8	
	A4	B9	
	A7	B10	
	A10	B11	
	A12	B12	
	A13	B13	
	A16	B14	
	A37	B15	
	A38	B16	
	A42	B17	
	A43	B18	
	A45	B19	
	A47	B20	
	A48		
Desarrollar las capacidades perceptivas para aprehender las relaciones complejas que se dan en un lugar fomentando la observación y la experimentación in situ, tomando como uno de los puntos de partida del desarrollo proyectual la relación con los elementos preexistentes en el ámbito de actuación	A1	B2	
	A4	B8	
	A5	B9	
	A9	B10	
	A10	B11	
	A13	B12	
	A16	B13	
	A37	B14	
	A38	B15	
	A40	B16	
	A42	B17	
	A43	B18	
	A47	B19	
	A48	B20	

Contents	
Topic	Sub-topic



1. UNDERSTANDING/KNOWING A PLACE IN GALICIA To understand the territory contextually as a support complex constructed realities.	1.1. On site knowledge of the place assigned. -Place identity 1.2. Spatial analysis from different perspectives: geographical, landscape, cultural and historical. -Sources and methods. 1.3. Personal synthesis of the place.
2. PLACE COMPREHENSION Relations between context and architecture. Relations between urban and environment.	2.1. Pre-existing elements 2.2. Scale as a resource. -Sense of scale in the natural field. 2.3. Community space and private space. Spatial categories.
3. TO DESIGN A PLACE The experience of inhabiting of public and private urban space.	3.1 Objectives. -Development of elements typical of the urban environment. -Determining factors of relation: preexisting natural/artificial elements, landscape, place structure (topography, climate, scale, tectonic materiality, roads, etc.) 3.2 Architectonic space exterior-interior. -Grids, textures, limits, proportions, modulations, rhythms, forms, scales, haptic perceptions, natural light. 3.3. Tasks. -Space as social medium. -Space as functional medium.
4. PROCESSES Development of a set of tools for the implementation of the architectural project.	4.1 Development of the architectural project thru sketches, outlines, diagrams, plans, models. -Ideation as articulation. -Formalization as concretion.

Planning				
Methodologies / tests	Competencies	Ordinary class hours	Student's personal work hours	Total hours
Workshop	A1 A4 A5 A6 A7 A9 A10 A12 A13 A16 A19 A20 A37 A38 A40 A42 A43 A45 A47 A48 A52 B1 B2 B3 B4 B5 B6 B7 B8 B9 B10 B11 B12 B13 B14 B15 B16 B17 B18 B19 B20 B21 B22 B23	53	79.5	132.5



Student portfolio	A1 A9 A10 A13 A37 A38 A42 A43 A45 A48 B8 B9 B11 B12 B13 B14 B16 B18	3	4.5	7.5
Objective test	A1 A4 A10 A13 A38 A48 B8 B9 B10 B11 B12 B13 B14	4	0	4
Personalized attention		6	0	6
(*)The information in the planning table is for guidance only and does not take into account the heterogeneity of the students.				

Methodologies	
Methodologies	Description
Workshop	The workshop is the basic formative mode of the subject Design Project 4. It is oriented to the implementation of trainings in which we can combine different methodologies (individual or group practices, work exhibition and work practices, debates and commentaries as well as individual teaching). Thru the workshop the student will develop design proposals with the help and guidance off the teaching stuff. The workshop will be organized in small groups of students. Complementary oral presentations will take place to introduce the theoretical issues related to each phase of the exercise being developed that will allow the student to face the subject and develop the workshop works and practices.
Student portfolio	The student will develop, as a second opportunity and in the classroom, a design practice that will show in a synthetic way the abilities and competences acquired around issues related to the themes and places undertaken in the course exercises.
Objective test	It will summarize the data that the student has produced from the theoretical sections as well as the personal thoughts related to the architectural project; graphic data, images, drawings, bibliography and notes related to the place of work as well as to the development of each one of the exercises proposed.

Personalized attention	
Methodologies	Description
Workshop Student portfolio	The professor in charge of the workshop will guide simultaneously the group work as well as the work of each student assuring the individual evolution thru the project process. This personalized attention will be extended to the partially shared teaching task that takes place in Project Design 4 with the professors of Architectural Analysis 2 and Urban 1, who will join the tutoring of the group at the collective as well as at the individual level.

Assessment			
Methodologies	Competencies	Description	Qualification



Workshop	A1 A4 A5 A6 A7 A9 A10 A12 A13 A16 A19 A20 A37 A38 A40 A42 A43 A45 A47 A48 A52 B1 B2 B3 B4 B5 B6 B7 B8 B9 B10 B11 B12 B13 B14 B15 B16 B17 B18 B19 B20 B21 B22 B23	Project Design 4 will be taught in the workshop during approximately 30 meetings, of which 15 have shared teaching. It will be graded thru continued evaluation for which the student will develop continuous work with partial results that will show a rising progress. Besides the good quality and the rising progression of the courses work, it is an indispensable requirement to have turned in all the exercises on time and in accordance with the courses guidelines as well as having complied with the minimum assistance , in the workshop as well as in the shared teaching, of 80% in each one. The student personal work will be graded taking into account the two exercises developed thru the four-month period in the workshop. It will be graded as Non Presented any student that falls into the following circumstances: -it has not completed the minimum assistance required. -it has turned in work that lacks prepositive content and incomplete. It will be forbidden to complete or modify the courses work beyond the date of completion if it lacks sufficient development.	90
Objective test	A1 A4 A10 A13 A38 A48 B8 B9 B10 B11 B12 B13 B14	The first exam is mandatory for all students. It will be a practice that will show in a direct manner the abilities and knowledge acquired by the student around the issues given during the exercises of the course. It will not be admissible to amplify the periods of course work between the first and the second exam. The grades, which will only be given to those students who have presented all the exercises on time given in the course and that have completed the required assistance which is obligatory, must reach the minimum grade of four. On the contrary the subject will be failed. The courses final evaluation will match the following percentages: 80% corresponds to the workshop (workshop+potfolio) 20% corresponds to the exam.	0
Student portfolio	A1 A9 A10 A13 A37 A38 A42 A43 A45 A48 B8 B9 B11 B12 B13 B14 B16 B18	It will summarize the data that the student has produced from the theoretical sections as well as the personal thoughts related to the architectural project; graphic data, images, drawings, bibliography and notes related to the place of work as well as to the development of each one of the exercises proposed. This methodology will be obligatory for the evaluation of the Project Design Workshop	10

Assessment comments

Sources of information



Basic	- LYNCH, K., (). La imagen de la ciudad. Barcelona, Gustavo Gili - MARTÍ ARÍS, C., (). Santiago de Compostela: la ciudad histórica como presente. Barcelona, Ed. El Serbal - MARTÍ ARÍS, C., (). Las variaciones sobre la identidad. Barcelona, Ed. El Serbal - MONEO, R., (). Inquietud teórica y estrategia proyectual. Barcelona, Gustavo Gili - MONTANER, J. M., (). Sistemas arquitectónicos contemporáneos. Barcelona, Gustavo Gili - NORBERG-SCHULZ, Ch (). Genius Loci. Gustavo Gili - RISSELADA, M., (). Team X. Rotterdam, NAI Publishers - ROWE, C., (). Ciudad collage. Barcelona, Gustavo Gili - SOLÁ-MORALES, M., (). Las formas de crecimiento urbano. Barcelona, UPC - ABALOS, I. (). Naturaleza y artificio.
Complementary	

Recommendations
Subjects that it is recommended to have taken before
Proxectos 3/630G01011 Análise Arquitectónico 1/630G01012 Xeometría da Forma Arquitectónica/630G01014 Historia da Arte/630G01015
Subjects that are recommended to be taken simultaneously
Análise Arquitectónico 2/630G01017 Urbanística 1/630G01018 Estruturas 1/630G01019 Construción 2/630G01020
Subjects that continue the syllabus
Proxectos 5/630G01021
Other comments
Specific conditions related to mobility for incoming and outgoing students. Since Project Design 4 pursues a continued evaluation for all students, including those who are in outgoing or incoming mobility, the same conditions of evaluation will be applied for all students, notwithstanding the fact that specific attention will be given to incoming students because of language or other clear differences between the schools of origin and destiny.

(*)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.