



Teaching Guide

Teaching Guide				
Identifying Data				2015/16
Subject (*)	Análise Arquitectónico 1		Code	630G01012
Study programme	Grao en Arquitectura			
Descriptors				
Cycle	Period	Year	Type	Credits
Graduate	1st four-month period	Second	FB	6
Language	SpanishGalicianEnglish			
Teaching method	Face-to-face			
Prerequisites				
Department	Representación e Teoría Arquitectónica			
Coordinador	Castro García, Óscar	E-mail	oscar.castro@udc.es	
Lecturers	Amado Lorenzo, Antonio Gonzalo Castro García, Óscar Doce Porto, Juan Manuel Llano Cabado, Pedro de Lorenzo Duran, Margarita Ventura Real, Jose Maria Nicolas Zas Gomez, Evaristo	E-mail	antonio.amado@udc.es oscar.castro@udc.es juan.doce@udc.es pedro.llano@udc.es margarita.lorenzo@udc.es jose.ventura@udc.es evaristo.zas@udc.es	
Web				
General description	ARCHITECTURAL ANALYSIS 1. METHODOLOGY PROJECT. THEORY OF ARCHITECTURE. ADVANCED ARCHITECTURAL GRAPHICS. The aim of this course focuses on the acquisition of skills and abilities for the representation of architecture, graphically and using descriptive models, allowing the student to approach the study of various aspects of architectural design, its relationship with the environment and the adequacy to the needs of users, acquiring specific skills of technical and project areas.			

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.
A2	PROXECTOS DE EXECUCIÓN: aptitude ou capacidade para elaborar proxectos integrais de execución de edificios e espazos urbanos en grao de definición suficiente para a súa completa posta en obra e equipamento de servizos e instalacións.
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.
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.
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.
A34	FUNCIÓNS PRÁCTICAS E SIMBÓLICAS: comprensión ou coñecemento dos métodos de estudo dos procesos de simbolización da ergonómia e das relacións entre o comportamento humano, o entorno natural ou artificial e os obxectos, de acordo cos requirimentos e a escala humanos.
A35	SOCIOLOXÍA RESIDENCIAL: comprensión ou coñecemento dos métodos de estudo das necesidades e demandas sociais, dos compoñentes da calidade de vida, das condicións de habitabilidade e dos programas básicos de vivenda.



A36	SOCIOLOXÍA CULTURAL: comprensión ou coñecemento das implicacións que nas funcións e responsabilidades sociais do arquitecto ten as necesidades, valores, normas de conduta e de organización e patróns espaciais e simbólicos determinados pola pertenza a unha cultura.
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.
A39	RESTITUCIÓN GRÁFICA: comprensión ou coñecemento das técnicas de medición e levantamento gráfico de edificios e de ámbitos urbanos e naturais en todas as súas fases, dende o debuxo de apuntamentos á restitución científica.
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.
A44	BASES DA ARQUITECTURA OCCIDENTAL: comprensión ou coñecemento das tradicións arquitectónicas, urbanísticas e paisaxísticas da cultura occidental e dos seus fundamentos técnicos, climáticos, económicos, sociais e ideolóxicos.
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.
A46	BASES DA ARQUITECTURA NON OCCIDENTAL: comprensión ou coñecemento das tradicións arquitectónicas, urbanísticas e paisaxísticas do mundo non occidental, os seus fundamentos técnicos, climáticos, económicos, sociais e ideolóxicos e as súas semellanzas e diferencias coas propias da cultura occidental.
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.
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.
B30	Comunicación oral e escrita na lingua nativa.
B31	Coñecemento doutras culturas e costumes.
C1	Expresarse correctamente, tanto de forma oral coma escrita, nas linguas oficiais da comunidade autónoma.
C2	Dominar a expresión e a comprensión de forma oral e escrita dun idioma estranxeiro.
C3	Utilizar as ferramentas básicas das tecnoloxías da información e as comunicacións (TIC) necesarias para o exercicio da súa profesión e para a aprendizaxe ao longo da súa vida.



C4	Desenvolverse para o exercicio dunha cidadanía aberta, culta, crítica, comprometida, democrática e solidaria, capaz de analizar a realidade, diagnosticar problemas, formular e implantar solucións baseadas no coñecemento e orientadas ao ben común.
C5	Entender a importancia da cultura emprendedora e coñecer os medios ao alcance das persoas emprendedoras.
C6	Valorar criticamente o coñecemento, a tecnoloxía e a información dispoñible para resolver os problemas cos que deben enfrontarse.
C7	Asumir como profesional e cidadán a importancia da aprendizaxe ao longo da vida.
C8	Valorar a importancia que ten a investigación, a innovación e o desenvolvemento tecnolóxico no avance socioeconómico e cultural da sociedade.

Learning outcomes			
Learning outcomes		Study programme competences	
Acquire skills for proper architectural analysis through graphical tools and models.		A1	B1 C1
		A2	B2 C2
		A4	B3 C3
		A9	B4 C4
		A10	B5 C5
		A13	B6 C6
		A34	B7 C7
		A35	B8 C8
		A36	B9
		A37	B10
		A38	B11
		A39	B12
		A42	B13
		A44	B14
		A45	B15
		A46	B16
		A47	B17
		A48	B18
			B19
			B30
			B31

Contents	
Topic	Sub-topic
A. Introduction	Introduction. Organization, objectives and methodology. Statement of course work.
B. Advanced Architectural Drawing	Drawing in architecture. Techniques and systems of representation. Three-dimensional analogical and digital representation.
1. Secondary languages of architecture	Secondary languages of architecture Intentions in representation 3D projections
2. Graphic conventions	Application of multiview orthographic, topographic and conic projections to architectural communication
4. The three-dimensional models as systems of representation	Spatial, volumetric, detailed and environmental models... The work model



3. The infographic	Drawing and electronic image The digital models Animation Digital presentations of architectural projects
5. Graphiation for the analysis of architecture	Reading an architectural project. Communicating an architectural project- Basic concepts for an introduction to analysis. Drawing to create, analyze, communicate an idea and communicate a project. Procedures and resources of analytical graphiation.

Planning				
Methodologies / tests	Competencies	Ordinary class hours	Student?s personal work hours	Total hours
Introductory activities	B1 C7	2	0	2
Oral presentation	B4	3	0	3
Guest lecture / keynote speech	A4 A9 A10 A13 A34 A35 A36 A38 A42 A44 B7 B8 C6 C7	15	1	16
Workshop	A4 A9 A10 A13 A34 A42 A44 A45 A46 A47 C3	40	48	88
Events academic / information	C7	6	0	6
Field trip	A4	8	8	16
Directed discussion	B1 B3 B9 B10 B11 B13 B14 B17 B18 B19 C3 C6	6	12	18
Personalized attention		1	0	1
(*)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	Prior to starting the process of architectural analysis, the student will be subject to a process of improving drawing and computing, instrumental aspects considered essential.
Oral presentation	Students do presentations, with the support of ICT, of the results of their work, interacting with teachers and other students.
Guest lecture / keynote speech	Aimed at the conceptual introduction and providing the information necessary for the development of workshop exercises.
Workshop	In the workshops all methodologies (presentations, simulations, debates, problem solving, supervised exercises, etc.) are combined simultaneously on practical tasks, with the assistance of the teacher.
Events academic / information	To deepen the knowledge of specialized aspects of the subject that can provide new information to the general aspects of the course.
Field trip	The field trip helps to know the buildings to be analyzed.
Directed discussion	Debates in which exercises done by students will be presented in order to discuss the results.

Personalized attention	
Methodologies	Description



Workshop Introductory activities Oral presentation	Evaluation is a continuous process, in which the activity in each of the sessions of the course developed by the student is monitored and recorded. Periodically and whenever the student requires, he is informed of the level reached by his exercises in relation to the objectives of the subject. There is a period at the end of the course, free of theoretical sessions and workshops, in which the care is provided exclusively individually, so that each student is oriented in order to achieve the objectives of the subject and even the excellence. At all times of the semester teachers provide students individually with additional support in a suitable schedule.
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Assessment			
Methodologies	Competencies	Description	Qualification
Guest lecture / keynote speech	A4 A9 A10 A13 A34 A35 A36 A38 A42 A44 B7 B8 C6 C7	The contents of the theoretical sessions are essential to know the techniques and objectives of analysis which will then be used in the course work.	30
Workshop	A4 A9 A10 A13 A34 A42 A44 A45 A46 A47 C3	The workshop is the area of synthesis of the subject and confluence with Projects, where knowledge and skills acquired are put into practice. The Workshop simultaneously demonstrate the intellectual development of students and the knowledge of the course objectives, the mastery of the subject and the communication resources essential for an architect.	65
Oral presentation	B4	As AA1 is a very practical subject, oral presentations done by the students are the best way to assess both knowledge and skills that are the objective of the subject.	5
Others			

Assessment comments
The student must attend the keynote sessions and present the graphic works, models, etc. put forward in the workshops, with the level of quality required to pass the course. Attendance to the theoretical and practical sessions and workshops is compulsory at least 80%. Without this requirement, the student will not pass the course. In order to pass the subject, the student will have two opportunities: January and July. The first one coincides with the date of submission of the last job, and may enable students to pass the course. Students who do not pass this first opportunity, may take a second one, which will consist of a practical exam in July. The submission of exercises below 80% implies a grade of "Absent" in the two assessment opportunities. Therefore, the student must repeat the course from start to finish. It is essential to deliver the specific practices of the subject, including the 3rd semester workshop with Projects 3 in order to pass each of the subjects that make up the workshop. This will amount to 20% of the final grade. Students who do not submit practices -wholly or partly- required in the workshop will be graded with an "Absent" in all subjects of the workshop. Students who do not pass the subject Projects 3 on the two opportunities, must attend the workshop the following year. In that case, students will do all the course work of the subjects that they did not pass. Students who passed the subject Projects 3 but did not pass any of the other subjects of the workshop, will have to redo their exercises with the corrections suggested by their teachers. Students enrolled after the start of the academic year, must attend the theoretical and practical classes from the date of enrollment, with the possibility of new dates of submission. MOBILITY: Teaching students on mobility programs will be adapted to teaching conditions as well as supervised exercises and tests.

Sources of information	
Basic	- Ching, Frank (1988). Arquitectura: forma, espacio y orden. GG. Barcelona - Moo, Zell (2008). The Architectural Drawing Course. Thames & Hudson. Londres - Moore, Allen & Lyndon (1974). La casa: Forma y Diseño. GG. Barcelona - Norberg-Schulz, Christian (1967). Intenciones en Arquitectura. Nerea - Wittkower, Rudolf (1995). Los fundamentos de la arquitectura en la edad del humanismo. Alianza Editorial - Zevi, Bruno (1948). Saber ver la arquitectura. Apóstrofe. Barcelona - Varios Autores (2011-). Cadernos de Fin de Carreira. ETSAC, A Coruña
Complementary	Aparte de estas entradas bibliográficas, cada ano a asignatura incorpora bibliografías específicas, que serán suxeridas ós estudantes.

Recommendations



Subjects that it is recommended to have taken before

Architectural Projects 1/630G01001
Architectural Drawing/630G01002
Descriptive Geometry/630G01003
Analysis on Architectural Form/630G01007
Proxectos 3/630G01011
Xeometría da Forma Arquitectónica/630G01014

Subjects that are recommended to be taken simultaneously

Proxectos 3/630G01011

Subjects that continue the syllabus

Proxectos 4/630G01016
Análise Arquitectónico 2/630G01017
Urbanística 1/630G01018

Other comments

The student needs basic knowledge of CAD. Having passed the subjects that take part in the 2nd semester workshop is recommended. This subject should not be taken simultaneously with superior workshops. This subject must be attended in conjunction with Projects 3 of the same semester. Mobile phones, tablets or computers in theoretical classes are not allowed for non academic purposes. Violation of this rule may result in the immediate expulsion from the classroom.

(*)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.