



Teaching Guide

Teaching Guide				
Identifying Data				2019/20
Subject (*)	Architectural Analysis 2		Code	630G02017
Study programme	Grao en Estudos de Arquitectura			
Descriptors				
Cycle	Period	Year	Type	Credits
Graduate	2nd four-month period	Second	Basic training	9
Language	SpanishGalicianEnglish			
Teaching method	Face-to-face			
Prerequisites				
Department	Expresión Gráfica Arquitectónica			
Coordinador	Amado Lorenzo, Antonio Gonzalo		E-mail	antonio.amado@udc.es
Lecturers	Amado Lorenzo, Antonio Gonzalo Castro García, Óscar Doce Porto, Juan Manuel Fraga Lopez, Francisco Javier Lizancos Mora, Plácido López Chao, Vicente Adrián Lorenzo Duran, Margarita		E-mail	antonio.amado@udc.es oscar.castro@udc.es juan.doce@udc.es javier.fraga@udc.es placido.lizancos@udc.es v.lchao@udc.es margarita.lorenzo@udc.es
Web				
General description	ARCHITECTURAL ANALYSIS 2. The aim of this subject is to develop students' abilities to analyze architecture as an object through analogue and digital tools for the production of graphic documents or models.			

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
A40	Ability to practise architectural criticism
A48	Adequate knowledge of general theories of form, composition and architectural types
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
A64	Coñecemento avanzado de aspectos específicos da materia de Expresión Gráfica Arquitectónica no contemplados expresamente na Orde EDU/2075/2010
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
B7	Knowing the role of the fine arts as a factor that influences the quality of architectural design
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.



C2	Mastering oral and written expression in a foreign language.
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	
Adquirir coñecementos técnicos para a análise da arquitectura por medio de ferramentas gráficas e maquetas.		A1	B1 C1
		A2	B2 C2
		A3	B3 C3
		A4	B4 C4
		A40	B5 C5
		A48	B6 C6
		A63	B7 C7
		A64	B12 C8

Contents	
Topic	Sub-topic
A. ARCHITECTURAL ANALYSIS	Graphic Analysis of Architecture
A.1. PRESENTATION OF THE MATTER	Detailed explanation of the Teaching Guide. Agenda, organization, objectives and methodology. Working material and bibliography. Spaces of matter: the classrooms. Matter times: calendar. The evaluation system. The importance of the subject in the Curriculum and in Architecture.
A.2. INTRODUCTION TO THE COURSE	Explanation of the course's argument: work dynamics, objectives. Presentation of the case studies.
A.3. GRAPHIC ANALYSIS OF ARCHITECTURE: MATERIALITY	Architectural analysis procedures. Graphic methods for architectural analysis.
A.4. TOPOLOGICAL ANALYSIS	Relationship between architecture and its surroundings. Relationship between interior and exterior spaces Graphic methods for topological analysis.
A. 5. FUNCTIONAL ANALYSIS	The functional content of the architectural fact. The functional structure as the basis of architecture. Typology. Type and Model. Graphic methods for functional analysis.
A.6. CONSTRUCTIVE ANALYSIS	The constructive systems in the materialization and the construction of the meaning of the architecture. Graphic methods for constructive analysis.
A.7. STRUCTURAL ANALYSIS	Structural systems in the materialization and construction of the meaning of architecture. The skin in the tectonic conformation of architecture. Graphic methods for the technological analysis.



A.8. FORMAL ANALYSIS	The generative process of the form as a relationship between mass, space and surface. Graphic methods for formal analysis.
A.9. GEOMETRIC ANALYSIS	The geometric analysis The concept of module. Graphic methods for formal analysis.
A.10. THE PARTI	Analytical synthesis procedures. Graphic methods for the realization of the "parti" and the communication of the architectural analysis.
B. TRAINING IN DIGITAL GRAPHIC TOOLS	Digital graphic tools in the representation and analysis of architecture.
B.1 Digital tools for the representation of architecture	The implementation of the information society. The digital versus the analog and its effect on the professional work of architecture. The digital work environment: information management and concurrent work.
B.2. Digital tools I	Tools for architectural ideation. The sensible drawing programs
B.3. Digital tools II	Tools for architectural analysis. The programs of illustration, edition and layout. The programs of spatial modeling.
B.4. Digital tools III	Tools for architectural communication. The programs of delineation, rendering and augmented reality.
B.5. Digital tools IV	Tools for the execution of the architecture. The building modeling programs.

Planning				
Methodologies / tests	Competencies	Ordinary class hours	Student?s personal work hours	Total hours
Guest lecture / keynote speech	A40 A48 A64 B6 B7 C5 C8	14	7	21
Workshop	A1 A2 A3 A4 A40 A64 B1 B2 B3 B4 B5 B6 B7 B12 C1 C2 C3 C4 C7	15	13	28
Supervised projects	A1 A2 A3 A4 A40 A63 B1 B5 B12	30	66	96
ICT practicals	A1 A2 A3 A4 B4 B5 C3 C6	30	45	75
Objective test	A63	4	0	4
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
Guest lecture / keynote speech	Introduction of fundamental theoretical concepts, graphical methodologies and presentation of case studies.
Workshop	Confluence space with the materials Proxectos 3 and Urbanística 1
Supervised projects	The students will apply the concepts and methodologies to the proposed cases of study, supervised by the teaching staff. This includes the oral presentation of the work developed, the response to tests of control of the training process and the production of a document with the resulting materials.
ICT practicals	The students will develop specific practices in which they will apply the knowledge acquired about digital graphic tools.
Objective test	Students must pass, with a minimum grade of 5, the test or specific tests that are proposed to justify knowledge of the subject. Without passing them, the course can not be approved.



Personalized attention

Methodologies	Description
Guest lecture / keynote speech Workshop Supervised projects ICT practicals Objective test	The evaluation is a continuous process in which the activity that the student develops is controlled and registered. Periodically and -in any case, whenever the student so requires- he is informed of the adequacy of the level reached by his activities in relation to the programmatic objectives of the subject. A period is established, at the end of the course, free of theoretical sessions and workshops, in which the attention is developed exclusively on an individual basis, so that each student is oriented in order to reach the final objectives of the subject or, in your case, excellence. At all times during the course, the teachers provide the students with additional support to the teacher individually, at a known time.

Assessment

Methodologies	Competencies	Description	Qualification
Guest lecture / keynote speech	A40 A48 A64 B6 B7 C5 C8	The contents of the theoretical sessions are fundamental to know the analysis techniques and objectives that will be used in the development of the work.	5
Workshop	A1 A2 A3 A4 A40 A64 B1 B2 B3 B4 B5 B6 B7 B12 C1 C2 C3 C4 C7	The Workshop is the field of synthesis of the subject. Here, the intellectual development of the student and the knowledge of the objectives of the course, the mastery of the subject matter and the communicative resources of the architect are evidenced simultaneously.	15
Supervised projects	A1 A2 A3 A4 A40 A63 B1 B5 B12	The objective of the subject is to train the student in the analysis of the architecture and in the management of information sources applied to real assumptions. All this is structured in a Tutored Work, which must be carried out throughout the teaching period in accordance with a scientific methodology, matching the theoretical knowledge imparted by the teaching staff. A final document will be produced where all its contents are expressed with advanced communicative strategies, typical of architecture professionals.	45
ICT practicals	A1 A2 A3 A4 B4 B5 C3 C6	Practices that demonstrate skills in the use of digital tools exposed during classes will be developed.	15
Objective test	A63	Specific control tests will be proposed to justify the knowledge acquired during the course.	20

Assessment comments

1. Assistance. The students must attend the lectures and present the graphic works, models, etc. proposed, with the quality level required to overcome the subject. Attendance is compulsory at least 80% to the theoretical and practical classes, as well as to the shared workshops. Without this requirement, no student will be able to pass by course to subject. The delivery of less than 100% of the practices, in its term, will mean that the course was not followed and a note of "Not Submitted" at the first opportunity. To be able to attend the second opportunity, the students must have delivered 100% of the course practices duly supervised, they may also have to perform additional work.

2. Late registration. 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 recovery of the practices carried out until that date.

3. Opportunities. To overcome the subject, the student will have two opportunities: June and July. Anyone who does not pass the first opportunity may present himself to the second. In both cases it is practical graphic evidence.

4. Mobility. Teaching to students from mobility programs, will refer to specific pedagogical, linguistic and calendar conditions and the performance of special tutored works.

Sources of information



Basic	- Baker, Geoffrey H. (1989). Le Corbusier. Análisis de la forma. - Clark & Pause (1984). Arquitectura. Temas de composición. Aalto, Kahn, Moore, Stirling, Le Corbusier, Paladio, Venturi. - Ching, Frank (1988). Arquitectura: forma, espacio y orden.. - Ching, Frank (1989). Dibujo y proyecto. - Curtis, Wilian (1987). Le Corbusier, Ideas y formas.. - Fraser & Henmi (1994). Envisioning architecture. An analysis of drawing.. - Michel, Lou (1996). Light. The shape of space.. - Moo Zell (2008). The architectural Drawing Course.. - Moore /Allen & Lyndon (1974). La casa:forma y diseño.. - Norberg- Schulz, Christian (1967). Intenciones en arquitectura.. - Wittkower, Rudolf (1995). Los fundamentos de la arquitectura en la edad del humanismo.. - Varios autores (2014). Cadernos PFC. ETSAC, A Coruña. - Franco Taboada, Juan Manuel (2014). Arquitecturas para la Moda. URI: http://hdl.handle.net/2183/14685 - Amado Lorenzo, Antonio y Franco Taboada, Juan Manuel (2013). Frank Lloyd Wright: Debuxo II, Análisis Gráfico Arquitectónico 2º, memoria docente 2003/2004. http://hdl.handle.net/2183/10020 - Amado Lorenzo, Antonio y Franco Taboada, Juan Manuel (2017). Alvar Aalto: Debuxo II, Análisis Arquitectónico 2º, memoria docente 2004/2005. http://ruc.udc.es/dspace/handle/2183/18341 - Amado Lorenzo, Antonio y Franco Taboada, Juan Manuel (2017). Tadao Ando + Toyo Ito: Debuxo II, Análisis Arquitectónico 2º, memoria docente 2005/2006. http://ruc.udc.es/dspace/handle/2183/18342 - De Llano Cabado, Pedro; Vizcaíno Monti, Javier; Rosales Noves, José Manuel; Lizancos Mora, Plácido; (2000). Dibujo II (grupos A y C): Análise Gráfica da Arquitectura.. https://ruc.udc.es/dspace/handle/2183/5321 - Franco Taboada, Juan Manuel y Castro García, Óscar (2018). Casas 16 y 17 de Walter Gropius para la Weissenhof Siedlung de Stuttgart, 1927. http://hdl.handle.net/2183/21620
Complementary	

Recommendations

Subjects that it is recommended to have taken before

Architectural Analysis 1/630G02012

Drawing in Architecture/630G02002

Analysis of Architectural Forms/630G02007

Architectural Design 2/630G02006

Subjects that are recommended to be taken simultaneously

Subjects that continue the syllabus

Other comments

The use of mobile phones in the theoretical classes for non-academic purposes is not allowed. Failure to comply with this rule may result in 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.