

		Teaching	Guide		
	Identifying	j Data			2016/17
Subject (*)	Análise de Formas Arquitectónicas	3		Code	630G02007
Study programme	Grao en Estudos de Arquitectura				
		Descrip	otors		
Cycle	Period	Yea	r	Туре	Credits
Graduate	2nd four-month period First Obligatoria			6	
Language	SpanishEnglish		I		
Teaching method	Face-to-face				
Prerequisites					
Department	Representación e Teoría Arquitect	ónica			
Coordinador	Mantiñan Campos, Carlos E-mail carlos.mantinan@udc.es			2udc.es	
Lecturers	Amado Lorenzo, Antonio Gonzalo		E-mail	antonio.amado@	udc.es
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	Mantiñan Campos, Carlos			carlos.mantinan@	2udc.es
	Perez Cid, Miguel angel			miguel.pcid@udd	c.es
Web	http://www.ryta-udc.es/				
General description	The aim of this subject is to consol	idate student kr	nowledge and sk	ills in relation to graphic	architectural representation, v
	particular emphasis on FreeHand drawing practice.				

	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
A6	"Knowledge of graphic surveying techniques at all stages, from the drawing sketches to scientific restitution, adapted and applied to
	architecture and urbanism "
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
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	Expressing themselves correctly, both orally and in writing, in the official languages of the autonomous region
C2	Mastering the expression and comprehension of a foreign language both orally and in writing
C3	Using basic tools of information technology and communications (ICT) necessary for the exercise of the profession and for 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 entrepreneurship and knowing the means available to the enterpreneur
C6	Critically evaluate the knowledge, technology and information available to solve the problems they must face



Assuming as professionals and citizens the importance of learning throughout life

C7

C8	Assessing the importance of research, innovation and technological development in the socio-economic advance of	society	and cult	ture
	Learning outcomes			
	Learning outcomes		y progra mpeteno	
Ability to a	apply graphic representation systems. Ability to handle projection and section systems. Ability to handle the	A1	B2	C1
quantitativ	ve and selective aspects of the scale. Ability to establish the relationship between the plane and depth.		B3	C2
			B4	СЗ
			B5	C4
			B6	C5
			B7	C6
			B12	C7
				C8
Ability to a	conceive and represent the figure, color, texture and brightness and also dominate the objects proportion. Knowlege	A2	B2	C1
	wing techniques -including the computer ones-, all of them fundamental to the correct approach to the projectual skill,		B3	C2
	to the project representation. Detailed study of the stages of graphic learning, from the initial preceptual stage tthe		B4	C3
final creat	ive representation.		B5	C4
			B6	C5
			B7	C6
			B12	C7
				C8
-	e and understanding of systems of spatial representation and their relation to the processes of graphical	A3	B2	C1
conceptua	alisation and visualisation of the different stages of architectural and urban design.		B3	C2
			B4	C3
			B5	C4
			B6 B7	C5
			Б7 B12	C6 C7
			DIZ	C7 C8
Knowledg	e and understanding of the laws of proportion and visual perception, theories of form and image, aesthetic theories	A4	B2	C8
-	and phenomenological analysis of architectural and urban form.	74	B3	C2
or colour,			B4	C3
			B5	C4
			B6	C5
			B7	C6
			B12	C7
				C8
Knowledg	e, understanding and use of graphic surveying and measurement techniques in relation to all stages of the design	A6	B2	C1
-	or buildings and natural and urban environments, from sketchpad to scientific restoration.		B3	C2
			B4	C3
			B5	C4
			B6	C5
			B7	C6
			B12	C7
				C8



Ability to apply knowledge and skills in relation to Systems of Representation, Spatial Representation, Graphical	A63	B2	C1
Conceptualisation, Analysis of Forms and Graphical Restoration, for the production, presentation and defence before a		B3	C2
University Board of Examiners of an original piece of academic work based on the student?s own research in relation to any of		B4	C3
the areas covered by the course.		B5	C4
		B6	C5
		B7	C6
		B12	C7
			C8

	Contents
Торіс	Sub-topic
ANALYSING ARCHITECTURAL FORM THROUGH	Laws of proportion and visual perception.
FREEHAND DRAWING	Theories of form and image, and aesthetic theories of colour.
	Analysis and description of architectural forms and spaces, with examples from
	contemporary and historical architecture.
	The human figure in architectural representation.
	Graphical research, analysis and representation of architectural and urban forms.
	Freehand drawing and sketching .
	Empleo y manejo de distintas técnicas y formatos.
SKETCHING AND GRAPHIC SURVEY	Sketching and freehand drawing techniques
	Sketching and drawing on location from direct observation
	Graphic survey and measurement techniques: from sketchpad to scientific restoration
CREATIVE REPRESENTATION AND GRAPHICAL	Graphical learning and creative representation
CONCEPTUALISATION	Architectural design presentations
	Laying out drawings

	Planning			
Methodologies / tests	Competencies	Ordinary class	Student?s personal	Total hours
		hours	work hours	
Supervised projects	A1 A2 A3 A4 A6 A63	14	45	59
	B2 B3 B4 B5 B6 B7			
	B12 C1 C2 C3 C4 C5			
	C6 C7 C8			
Workshop	A1 A2 A3 A4 A6 A63	30	45	75
	B2 B3 B4 B5 B6 B7			
	B12 C1 C2 C3 C4 C5			
	C6 C7 C8			
Guest lecture / keynote speech	A1 A2 A3 A4 A6 A63	15	0	15
	B2 B3 B4 B5 B6 B7			
	B12 C1 C2 C3 C4 C5			
	C6 C7 C8			
Personalized attention		1	0	1

Methodologies		
Methodologies	Description	



Supervised projects	Students will be required to complete one or more assignments during the non-class hours (45) allocated for these activities.
	This section of the course focuses on learning ?how things are done? and the promotion of supervised independent learning.
	Class contact hours (14) will be used for the proposal and discussion of project topics and related theoretical considerations.
	Class time will also include a series of group and/or individual project monitoring sessions.
Workshop	The workshop section of the module includes both class time practice sessions (30 hours) and non-class time (54 hours) spent
	on workshop tasks assigned by the lecturer.
	As in the case of supervised project work, workshop tasks are focused on learning ?how things are done? and encouraging
	supervised independent learning.
	Students will be required to produce a set amount of graphical work (defined in advance by the lecturer) during the hours
	allocated for workshop activities.
	Workshop activities will be based on the following categories and assessed individually, with each task accounting for a
	specific portion of the overall mark:
	1) Presential class work (ordinary class hours)
	2) Weekly practical tasks (student's personal work hours)
	3) Final assessment control drawings (final exam)
Guest lecture /	Oral presentation, using audiovisual aids and other resources, intended to convey knowledge and encourage learning.
keynote speech	
	Theoretical content will be divided according to the module?s two main subject areas and taught using a non-linear approach,
	based on the make-up of the group and the learning objectives proposed by the lecturer.

Bestription meetings between lecturers and students, or small group tutoring sessions, tivation to students throughout the learning process, and an opportunity to discust n relation to specific module tasks and activities. er sections, students will be required to keep the lecturer informed as to the ojects meet the necessary standards in each case.
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er sections, students will be required to keep the lecturer informed as to the
pjects meet the necessary standards in each case.
ng and learning in this module, students will be strictly required to avail of all syllabus. Students who fail to attend the weekly tutorial meetings (1
be recorded as ?no-shows? and have their assessment deferred to a subsequer
be rec

		Assessment	
Methodologies	Competencies	Description	Qualification



Guest lecture /	A1 A2 A3 A4 A6 A63	Class attendance is compulsory for this section of the subject.	5
	B2 B3 B4 B5 B6 B7	Students will be required to attend a minimum 80% of all classes; absences due to	5
keynote speech	B12 C1 C2 C3 C4 C5		
		illness or other unforeseen circumstances should not exceed the remaining 20%.	
	C6 C7 C8	Students who fail to attend this 80% to all classes will be recorded as ?Absent (NP)?.	
		Assessment for this section of the module will will be averaged to give the student?s	
		overall mark for this section of the module based on questionnaires (MCQ, short	
		answer questions, etc.) done at the end of the theoretical sessions. These	
		questionnaires will check student's academic progress in this methodology.	
		The mark for this section will account for 5% of the total final mark for the module	
Supervised projects	A1 A2 A3 A4 A6 A63	Class attendance is compulsory for this section of the subject.	15
	B2 B3 B4 B5 B6 B7	Students will be required to attend a minimum 80% of all classes; absences due to	
	B12 C1 C2 C3 C4 C5	illness or other unforeseen circumstances should not exceed the remaining 20%.	
	C6 C7 C8	However 100% of all assigned work in this methodology should be done.	
		Aggregated marks for all supervised projects will be weighted to give the student?s	
		overall mark for this section of the module.	
		Supervised projects will account for 15% of the total final mark for the module.	
Workshop	A1 A2 A3 A4 A6 A63	Class attendance is compulsory for this section of the subject.	80
	B2 B3 B4 B5 B6 B7	Students will be required to attend a minimum 80% of all classes; absences due to	
	B12 C1 C2 C3 C4 C5	illness or other unforeseen circumstances should not exceed the remaining 20%.	
	C6 C7 C8	However 100% of all assigned work in this methodology should be done.	
		Total aggregated marks for workshop tasks in each category will account for the	
		following percentages of the total final mark for the module:	
		1) Class work (ordinary class hours) and weekly practical tasks (student's personal	
		work hours): 30%	
		2) Final assessment control drawings (final exam): 50%.	
		The content of the final exam will be agreed jointly between all teachers on the	
		interactive portion of the module. All practical work (tests) will be evaluated by the	
		whole staff of lecturers of the subject to guarantee the homogeneity of the level in all	
		the subgroups.	
		Workshop activities will account for 80% of the total final mark for the module.	

Assessment comments



In order to pass the module, either during the first-opportunity term exams in June, or during the second-opportunity examination period in July, students required to have done 100% of all assigned work in each methodology, and achieve the minimum specified mark for each of the compulsory assignments, under the appropriate direction and supervision of the lecturer. Students who fail to meet this requirement will be recorded as ?Absent (NP)? and have their assessment deferred to a subsequent examination period.

Project supervision will only be deemed to have taken place where the supervising lecturer can confirm that student work on projects during class time is consistent with work completed outside of class hours. This condition will apply particularly in the case of students assessed during the second-opportunity examination period only (in July); they will be strictly required to do all the assigned work during the course with particular emphasis to the lecturer supervision of all these tasks.

Students who fail to attend at least 80% of lectures and practical (workshop and supervised project) classes will be recorded as ?Absent (NP)? and have their assessment deferred to a subsequent examination period.

Given the emphasis on personalized teaching and learning in this module, students will be strictly required to avail of the opportunities for engagement offered by the syllabus. Students who fail to attend the weekly tutorial meetings (1 hour/semester) defined in the timetable will be recorded as ?Absent (NP)? and have their assessment deferred to a subsequent examination period.

Teaching, testing and assessment in respect of mobility programme students will be adapted to meet any special circumstances or supervision needs these students may have.

Sources of information



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	- Ching, Frank (2010). DESIGN DRAWING. New Jersey: John Wiley & amp; Sons
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	- Ching, Frank (2015). ARCHITECTURAL GRAPHICS. New Yersey: John Wiley & amp; Sons
	- Cooper, Douglas (1992). DRAWING AND PERCEIVING Nueva York. Ed. Van Nostrand Reinhold
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	Barcelona, Ed. G.G.
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	- Edwards, Brian W. (1994). UNDERSTANDING ARCHITECTURE THROUGH DRAWING. London: E & amp; FN Spor
	- Fraser, Iain (1994). ENVISIONING ARCHITECTURE: AN ANALYSIS OF DRAWING. New York: John Wiley & amp;
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	- Gosling, David (1996). GORDON CULLEN: VISIONS OF URBAN DESIGN. London: Academy editions
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	- Jacoby, Helmut (1965). ARCHITECTURAL DRAWINGS. Stuttgart: Gerd Hatje
	- Jacoby, Helmut (compilado por:) (1974-1981). EL DIBUJO DE LOS ARQUITECTOS. Barcelona: Gustavo Gili
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	- Mills, Criss B. (2000). DESIGNING WITH MODELS Nueva York. Ed. John Wiley & amp; amp; Sons
	- Moneo, R. y Cortés, J. (1982). COMENTARIO SOBRE 20 ARQUITECTOS DEL SIGLO XX. Barcelona. Ed. U.
	Politecnica Cataluña
	- Nikolaides, Kimon (). THE NATURAL WAY TO DRAW Boston, Ed. Houghton Mifflin
	- Porter y Goodman (1983-84-85). MANUAL DE TÉCNICAS GRÁFICAS PARA ARQUITECTOS. VOL 1,2,3 Y 4.
	Barcelona. Ed. G.G.
	- Redondo, E. y Delgado, M. (). DIBUJO A MANO ALZADA PARA ARQUITECTOS Barcelona. Ed. Parramón
	- Richards, James (2013). FREEHAND DRAWING & amp; DISCOVERY. Hoboken: John Wiley & amp; Sons
	- Uddin, M.S. (2000). DIBUJO AXONOMÉTRICO México. Ed. McGraw Hill
	- Uddin, M.S. (2000). DIBUJO DE COMPOSICIÓN México. Ed. McGraw Hill
Complementary	

	Recommendations
	Subjects that it is recommended to have taken before
Keometría Descritiva/630G02	003
Debuxo de Arquitectura/630G	02002
	Subjects that are recommended to be taken simultaneously
Proxectos 1/630G02001	
Keometría da Forma Arquited	tónica/630G02014
	Subjects that continue the syllabus
Análise Arquitectónico 1/6300	02012
Análise Arquitectónico 2/6300	302017
	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.