		Teaching Guide				
	Identifyir	ng Data			2019/20	
Subject (*)	Analysis of Architectural Forms	Analysis of Architectural Forms			630G02007	
Study programme	Grao en Estudos de Arquitectura					
	·	Descriptors				
Cycle	Period	Year		Туре	Credits	
Graduate	2nd four-month period	First		Basic training	6	
Language	SpanishEnglish	SpanishEnglish				
Teaching method	Face-to-face	Face-to-face				
Prerequisites						
Department	Expresión Gráfica Arquitectónica					
Coordinador	Fraga Lopez, Fernando E-mail fernando.fraga@udc.es		ıdc.es			
Lecturers	Amado Lorenzo, Antonio Gonzalo	Amado Lorenzo, Antonio Gonzalo E-mail antonio.amado@udc.es		udc.es		
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Fraga Lopez, Francisco Javier javier.fraga@udc.es Mantiñan Campos, Carlos carlos.mantinan@udc.es		es				
		udc.es				
Web	www.ryta-udc.es/	'				
General description	The aim of this subject is to conso	olidate student knowledge a	and skills	s in relation to graphic	architectural representation,	
	particular emphasis on FreeHand drawing practice.					

	Study programme competences / results
Code	Study programme competences / results
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)
А3	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
В3	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
В4	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
В6	Knowing the history and theories of architecture and the arts, technologies and human sciences related to architecture
В7	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	Stud	y progra	amme
	cor	competences /	
		results	
Ability to apply graphic representation systems. Ability to handle projection and section systems. Ability to handle the	A1	B2	C1
quantitative and selective aspects of the scale. Ability to establish the relationship between the plane and depth.		В3	C2
		B4	СЗ
		B5	C4
		B6	C5
		B7	C6
		B12	C7
		512	C8
Ability to consolve and represent the figure, color, tayture and brightness and also deminate the objects proportion. Knowledge	A2	B2	C1
Ability to conceive and represent the figure, color, texture and brightness and also dominate the objects proportion. Knowlege	AZ		
of the drawing techniques -including the computer ones-, all of them fundamental to the correct approach to the projectual skill,		B3	C2
a prelude to the project representation. Detailed study of the stages of graphic learning, from the initial preceptual stage tthe		B4	C3
final creative representation.		B5	C4
		B6	C5
		B7	C6
		B12	C7
			C8
Knowledge and understanding of systems of spatial representation and their relation to the processes of graphical	A3	B2	C1
conceptualisation and visualisation of the different stages of architectural and urban design.		В3	C2
		B4	СЗ
		B5	C4
		В6	C5
		В7	C6
		B12	C7
			C8
Knowledge and understanding of the laws of proportion and visual perception, theories of form and image, aesthetic theories	A4	B2	C1
of colour, and phenomenological analysis of architectural and urban form.		B3	C2
, ,		B4	C3
		B5	C4
		B6	C5
		B7	C6
		B12	C6
		012	C7
Knowledge, understanding and use of graphic surveying and measurement techniques in relation to all stages of the design	A6	B2	C8
	AO		C2
process for buildings and natural and urban environments, from sketchpad to scientific restoration.		B3	
		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		В3	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
		В6	C5
		В7	C6
		B12	C7
			C8

	Contents
Topic	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 techniques
	Sketching and drawing on location from direct observation
	Drawing formats
SKETCHING AND GRAPHIC SURVEY	Sketching and freehand drawing techniques
	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

Teaching hours in-person & virtual) 14	Student?s personal work hours 45	Total hours
14		59
	45	59
20		
00		
00		
00		
30	45	75
15	0	15
1	0	1
	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.

	Personalized attention
Methodologies	Description
Guest lecture /	Individualised attention refers to one-to-one meetings between lecturers and students, or small group tutoring sessions,
keynote speech	designed to offer guidance, support and motivation to students throughout the learning process, and an opportunity to discuss
Supervised projects	any questions or difficulties they may have in relation to specific module tasks and activities.
Workshop	
	For this section of the module, as in the other sections, students will be required to keep the lecturer informed as to the
	progress of their assignments, to ensure projects meet the necessary standards in each case.
	Given the emphasis on personalised teaching and learning in this module, students will be strictly required to avail of all
	opportunities for engagement offered by the syllabus. Students who fail to attend the weekly tutorial meetings (at least 1
	hour/four-month period) defined in the timetable will be recorded as ?no-shows? and have their assessment deferred to a
	subsequent examination period.

Assessment				
Methodologies	Competencies /	Description	Qualification	
	Results			

Guest lecture /	A1 A2 A3 A4 A6 A63	Class attendance is compulsory for this section of the subject.	0
keynote speech	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	Students who fail to attend this 80% to all classes will be recorded as ?Absent (NP)?.	
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.	85
	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): 35%	
		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. Students should get more than 5 in the exam to pass the subject.	
		Workshop activities will account for 85% of the total final mark for the module.	

Assessment comments



Delivery

requirements that shall be met:

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Workshop: Class work assignments will be handed in weekly at the end of the class session; non-class assignments will be handed the week following the proposal. Deliveries cannot be postponed. Late delivery is not allowed.

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Supervised Projects: Assignments will be collected on the day set. Deliveries cannot be postponed. Late delivery is not allowed. Students who fail to meet this requirement will be recorded as ?Absent?.

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 will be 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. Consequently the following shall be met:

1)

Students recorded as ?Absent? in the first opportunity, will be required to deliver all the assigned work of the different methodologies (not delivered in the first opportunity) to be evaluated in the second opportunity.

2) Students

who only sit for the second opportunity (in July), will be strictly required to do all the assigned work during the course with particular emphasis to the lecturer supervision of all these tasks.

3)

Students who need to sit for the second opportunity and hadn't got the minimum mark for the supervised projects, should develop a new 'development assignment' posed by the lecturers at the beginning of the second semester, to give students enough time to do it and to have it supervised by their teachers. The deadline to deliver this task will be the date of the exam of the second opportunity. The mark of this new task will be considered instead of the previous one obtained during the first semester for this methodology.

4)

Students who need to sit for the second opportunity and hadn't got the minimum mark for the workshop, should develop a new 'sketchpad' posed by the lecturers at the beginning of the second semester, to give students enough time to do it and to have it supervised by their teachers. The deadline to deliver this task will be the date of the exam of the second opportunity.

Class

attendance is compulsory for both methodologies workshop and supervised projects (theoretical and practical sessions). Students who fail to attend to the 80% to all classes will be recorded as ?Absent?.



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 (at the minimum 1 hour), will be recorded as ?Absent?.

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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	- Cooper, Douglas (1992). DRAWING AND PERCEIVING Nueva York. Ed. Van Nostrand Reinhold			
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	- D'Amelio, Joseph (1964). PERSPECTIVE DRAWING HANDBOOK. New York: León Amiel			
	- De Grandis, Luigina (1985). TEORIA Y USO DEL COLOR Madrid, Ed. Cátedra			
	- Edwards, Brian W. (1994). UNDERSTANDING ARCHITECTURE THROUGH DRAWING. London: E & Don			
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	Sons			
	- Gosling, David (1996). GORDON CULLEN: VISIONS OF URBAN DESIGN. London: Academy editions			
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	Politecnica Cataluña			
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	- Porter y Goodman (1983-84-85). MANUAL DE TÉCNICAS GRÁFICAS PARA ARQUITECTOS. VOL 1,2,3 Y 4.			
	Barcelona. Ed. G.G.			
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	- Richards, James (2013). FREEHAND DRAWING & DISCOVERY. Hoboken: John Wiley & Discovery &			
	- Uddin, M.S. (2000). DIBUJO AXONOMÉTRICO México. Ed. McGraw Hill			
	- Uddin, M.S. (2000). DIBUJO DE COMPOSICIÓN México. Ed. McGraw Hill			
	- Campanario, G. (2012). THE ART OF URBAN SKETCHING. Massachusetts, Ed. Quarry Books			
Complementary				

Recommendations Subjects that it is recommended to have taken before	
Drawing in Architecture/630G02002	
Subjects that	t are recommended to be taken simultaneously
Architectural Design 1/630G02001	
Architectural Form Geometry/630G02014	
	Subjects that continue the syllabus
Architectural Analysis 1/630G02012	
Architectural Analysis 2/630G02017	
	Other comments

Sería recomendable para el alumno que accede a esta asignatura que previamente, en la ESO, hubiese cursado asignaturas de representación gráfica y dibujo a mano alzada.



(*)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.