		Teaching Guide					
	Identifying	Data			2020/21		
Subject (*)	Analysis of Architectural Forms Code			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		'		<u>'</u>		
Teaching method	Face-to-face						
Prerequisites							
Department	Expresión Gráfica Arquitectónica						
Coordinador	Fraga Lopez, Fernando	ga Lopez, Fernando E-mail fernando.fraga@udc.es			Qudc.es		
Lecturers	Amado Lorenzo, Antonio Gonzalo E-mail antonio.ama		antonio.amado@	do@udc.es			
	Caridad Yañez, Eduardo			eduardo.caridad	@udc.es		
	Fernandez-Gago Longueira, Paula			paula.fernandez	-gago@udc.es		
	Fraga Lopez, Fernando			fernando.fraga@udc.es			
	Fraga Lopez, Francisco Javier	, Francisco Javier		javier.fraga@udc.es			
	Mantiñan Campos, Carlos			carlos.mantinan	@udc.es		
Web	www.ryta-udc.es/	·		·			
General description	The aim of this subject is that the stu	udent acquires sufficier	nt graphic a	ability to face the arc	hitectural project through		
	Freehand Drawing.						
	This capacity will be focused on three aspects that we consider fundamental and previous to the own project: acquisition of						
	knowledge based on drawing the reality, promotion of the ideation and development of ideas (creativity) and, finally,						
	communication of these ideas.						
	All this through the inevitable graphic maturation of the student's freehand drawing.						



Contingency plan

1. MODIFICATIONS IN CONTENTS AND TEACHING PLANNING:

The subject will continue to be taught as normally as possible in non-attendance mode.

- 1.1. CONTENTS: The contents of the course will undergo some minimal adjustments. Due to the impossibility of going out to the street to draw, the sketching part will be eliminated from the subject: "Sketching techniques and freehand notes".
- 1.2. TEACHING PLANNING: Due to the unique circumstances, the percentages of the methodologies are adjusted as specified in the table of "Modifications to the assessment" at the end of this document and teaching is adapted to the telematic methods and platforms provided by the UDC (Moodle and Teams).

2. ADAPTATION OF TEACHING METHODOLOGIES TO TELEMATIC TEACHING

- 2.1. During the period of confinement, the methodologies foreseen for classroom practice and examinations are in line with telematic teaching:
- Master session: developed through TEAMS and Moodle
- Workshop:

Face-to-face practice: through TEAMS and Moodle Non-presential practice: through TEAMS and Moodle Final control drawing: through TEAMS and/or Moodle - Supervised work: through TEAMS and Moodle

3. Mechanisms for personalized attention to students

They are maintained, adapting them to the non-presential mode through the virtual platforms.

Failure to comply with the tutorials set in the planning, which was a minimum of 1 hour, will not result in the consideration of the student as Not Presented.

4. Modifications to the assessment

GRAPHIC PRACTICES 50% Presential and non-presential practices All delivered in Moodle.

TUTORED WORK 15% 3 Tutored Works (TT_X) developed over 5 weeks and delivered by Moodle

OBJECTIVE TEST 35% Various exercises performed over the 4 hours of the objective test. Directly related to the exercises performed

during the course classes.

*Avaluation observations:

- 1. METHODOLOGY: The teachers' meeting (tribunal) for the evaluation of the final control will be carried out through TEAMS.
- 2. If there are special cases, those students who, for whatever reason, do not have access to computer resources to be able to attend classes on-line and hand in their work, will be studied individually.
- 5. Modifications to the bibliography or webgraphy

If necessary, for the work to be done, the bibliography will be provided in PDF format through Moodle.

	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
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 /		
		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.		B3	C2		
		B4	СЗ		
		B5	C4		
		B6	C5		
		B7	C6		
		B12	C7		
			C8		
Ability to conceive and represent the figure, color, texture and brightness and also dominate the objects proportion. Knowlege	A2	B2	C1		
of the drawing techniques -including the computer ones-, all of them fundamental to the correct approach to the projectual skill,		В3	C2		
a prelude to the project representation. Detailed study of the stages of graphic learning, from the initial preceptual stage tthe		B4	СЗ		
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	А3	B2	C1		
conceptualisation and visualisation of the different stages of architectural and urban design.		В3	C2		
		B4	СЗ		
		B5	C4		
		В6	C5		
		B7	C6		
		B12	C7		
			C8		

of colour, and phenomenological analysis of architectural and urban form.		B3 B4 B5 B6	C2 C3 C4 C5
		B5	C4
		В6	C5
		B7	C6
		B12	C7
			C8
Knowledge, understanding and use of graphic surveying and measurement techniques in relation to all stages of the design	A6	B2	C1
process for buildings and natural and urban environments, from sketchpad to scientific restoration.		В3	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		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
		B7	C6
		B12	C7
			C8

	Contents
Topic	Sub-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

Planning				
Methodologies / tests	Competencies /	Teaching hours	Student?s personal	Total hours
	Results	(in-person & virtual)	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
(*)The information in the planning table i	s for quidance only and does not take	into account the k	actorogonoity of the st	udonte

(*)The information in the planning table is for guidance only and does not take into account the heterogeneity of the students.

	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 (45 hours) spent on workshop tasks assigned by the lecturer.
	on none to produce a sound in
	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 / keynote speech	Oral presentation, using audiovisual aids and other resources, intended to convey knowledge and encourage learning.
	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 / keynote speech Supervised projects Workshop

Individualised attention refers to one-to-one meetings between lecturers and students, or small group tutoring sessions, designed to offer guidance, support and motivation to students throughout the learning process, and an opportunity to discuss any questions or difficulties they may have in relation to specific module tasks and activities.

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.

Madeal-laste	Commeterates	Description.	O I'''
Methodologies	Competencies / Results	Description	Qualification
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.	

Assessment comments



Delivery

requirements that shall be met:

-

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.

-

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.

Basic	
Dasic	- Ching, Frank (1989). DRAWING A CREATIVE PROCESS. New York: Van Nostrand Reinhold
	- Ching, Francis (1999). DIBUJO Y PROYECTO México. Ed. G.G. México
	- Ching, Frank (2010). DESIGN DRAWING. New Jersey: John Wiley & Dr. Sons
	- Ching Frank (2012). INTERIOR DESIGN ILLUSTRATED. New Jersey: John Wiley & Design Sons
	- Ching, Frank (2015). ARCHITECTURAL GRAPHICS. New Yersey: John Wiley & Dons
	- Cooper, Douglas (1992). DRAWING AND PERCEIVING Nueva York. Ed. Van Nostrand Reinhold
	- Cullen, Gordon (1964). TOWNSCAPE. London: The Architectural Press
	- 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
	- Fraser, Iain (1994). ENVISIONING ARCHITECTURE: AN ANALYSIS OF DRAWING. New York: John Wiley & Drawing.
	Sons
	- Gosling, David (1996). GORDON CULLEN: VISIONS OF URBAN DESIGN. London: Academy editions
	- Hanks, Kurt (2006). RAPID VIZ: A NEW METHOD FOR VISUALIZATION OF IDEAS. Boston: Thomson Course
	Technology PTR
	- Jacoby, Helmut (1965). ARCHITECTURAL DRAWINGS. Stuttgart: Gerd Hatje
	- Jacoby, Helmut (compilado por:) (1974-1981). EL DIBUJO DE LOS ARQUITECTOS. Barcelona: Gustavo Gili
	- Knoll, W. y Hechinger, M. (1982). MAQUETAS DE ARQUITECTURA: TECNICAS Y CONSTRUCCIÓN México.
	Ed. G.G. México
	- Martin, Judy (1994). APRENDER A ABOCETAR. Barcelona, Ed. Blume
	- Mills, Criss B. (2000). DESIGNING WITH MODELS Nueva York. Ed. John Wiley & Dons
	- 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 & Samp; DISCOVERY. Hoboken: John Wiley & Sons
	- 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
	Campanano, C. (2012). The fixth of CND/III CNE FOR IIIIO. Massacriuscus, Ed. Quarry Books
Complementary	

Recommendations	
Subjects that it is recommended to have taken before	
Descriptive Geometry/630G02003	
Drawing in Architecture/630G02002	
Subjects that 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.