		Teachin	ıg Guide				
	ldentifyir	ng Data			2020/21		
Subject (*)	Drawing in Architecture Code			630G02002			
Study programme	Grao en Estudos de Arquitectura						
		Desc	riptors				
Cycle	Period	Ye	ear	Туре	Credits		
Graduate	1st four-month period	Fi	rst	Basic training	6		
Language	SpanishEnglish						
Teaching method	Hybrid						
Prerequisites							
Department	Expresión Gráfica Arquitectónica						
Coordinador	Fernandez-Gago Longueira, Pau	la	E-mail	paula.fernandez-	gago@udc.es		
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Web	http://departamentos.etsa.udc.es	/webryta/		·			
General description	This subject aims to introduce students to the graphic representation of architecture, from two different perspectives:						
	Architectural Drawing and Freeha	and Drawing.					
	Drawing in Architecture in essent	ce, will be taugl	ht under the face-to	face system, including	the theoretical contents in the		
	practical approach or developme	nt. During this a	academic year 202	0_21, and due to the ex	cceptional Covid-19 limitations as		
	well as to the insistence of the fac-	culty leadership	o, there is an isolate	ed hour for theory untie	d from the practice hours.		
	Decision that has been reached a	against the sub	ject teaching staff,	because since forever I	ooth, theory and practice were		
	gathered together to make easier	r their total inte	gration. In addition,	the theoretical hour mu	ust be divided in two parts to		
	attend both methodologies of the	subject. For th	is reason, the keyn	ote speech hours devo	ted for the theoretical contents		
	will be taught under virtual mode	through Teams	s in order to avoid a	a mass of people in the	classroom, and to ease the		
	transition between both theoretical	al blocks of cor	ntents. As soon as t	the threat of the virus is	overcome, it will return to a		
	face-to face teaching mode taking	g up the four ho	ours format that this	s subject has always ha	d.		

Contingency plan

- 1. Modifications to the contents
- No modifications will be made.
- 2. Methodologies
- *Teaching methodologies that are maintained
- Keynote speech
- Supervised projects
- Workshop
- *Teaching methodologies that are modified
- 3. Mechanisms for personalized attention to students
- Email. Temporality: Daily. Use: To ask for virtual appointments (tutorials) and for monitoring the proposed projects/exercises.
- Moodle. Temporality: Daily. Use: According to the student's need to have the materials provided, for the delivery of the different assignments, or for the use of the thematic forums.
- Teams. Temporality: This dynamic will be adjusted to the temporal development of the subject in face-to-face mode with the necessary weekly sessions to be able to carry out all the theoretical and practical classes as well as to carry out tutorials. Use: Hybrid, in such a way as to follow a normalized and adjusted monitoring of the learning needs of the students to develop the work of the subjects.
- 4. Modifications in the evaluation

What is indicated in the subjects teaching guide is maintained, because the change into virtual teaching mode does not imply changes in the procedures or in the way of evaluation.

*Evaluation observations:

Those as indicated in the subject teaching guide are maintained.

5. Modifications to the bibliography or webgraphy

Students will have available in Moodle, a series of sources of information in pdf format. No modifications will be made in relation to this issue.

	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
A5	"Knowledge of the metric and projective geometry 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
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

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
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		
			competences /		
		results			
Ability to apply graphic representation systems.	A1	B1	C1		
Ability to handle projection and section systems.		B4	C2		
Ability to handle the quantitative and selective aspect of the scale.		B5	С3		
Ability to establish the relationship between the plane and depth.		B6	C4		
		B7	C5		
		B12	C6		
			C7		
			C8		
Ability to conceive and represent the figure, color, texture and brightness and also dominate the objects proportion. Knowledge	A2	B1	C1		
of the drawing techniques, all of them fundamental to the correct approach to the projectual skill, a prelude to the project		B4	C2		
representation. Knowledge and understanding of the stages of graphic learning, from the initial preceptual stage to the final		B5	C3		
creative representation.		B6	C4		
		B7	C5		
		B12	C6		
			C7		
			C8		
Knowledge and understanding of systems of spatial representation and their relation to the processes of graphical	А3	B1	C1		
conceptualisation and visualisation of the different stages of architectural and urban design.		B4	C2		
		B5	СЗ		
		В6	C4		
		B7	C5		
		B12	C6		
			C7		
			C8		

Knowledge and understanding of the laws of proportion and visual perception, theories of form and image, aesthetic theories	A4	B1	C1
of color and phenomenological analysis of architectural and urban form.		B4	C2
		B5	СЗ
		B6	C4
		В7	C5
		B12	C6
			C7
			C8
Knowledge and understanding of the metric and projective geometry as the foundations of the layout, design and architectural	A5	B1	C1
composition.		B4	C2
		B5	СЗ
		В6	C4
		В7	C5
		B12	C6
			C7
			C8
Ability to apply knowledge and skills in relation to Systems of Representation, Graphical Conceptualisation, Analysis of forms	A63	B1	C1
and Graphical Restoration, for the production, presentation and defense before a University Board of Examiners of an original		B4	C2
piece of academic work based on the student's own research in relation to any of the areas covered by the course.		B5	С3
		В6	C4
		В7	C5
		B12	C6
			C7
			C8

	Contents
Topic	Sub-topic
FREEHAND DRAWING	Graphic learning methodology applied to architectural perception.
Workshop Methodology	Expressive representation as a first step concerning graphic learning.
	Lineal perspective applied to freehand drawing.
	Expressive volume representations: axonometric, perspectives, models
INTRODUCTION TO ARCHITECTURAL DRAWING	Graphic conventions.
Supervised Projects methodology	Scale and proportions.
	Plans, elevations and architectural sections.

	Plannin	g		
Methodologies / tests	Competencies /	Teaching hours	Student?s personal	Total hours
	Results	(in-person & virtual)	work hours	
Introductory activities	A1 A2 A3 A4 A5 A63	2	0	2
	B1 B4 B5 B6 B7 B12			
	C1 C2 C3 C4 C5 C6			
	C7 C8			
Supervised projects	A1 A2 A3 A4 A5 A63	22	45	67
	B1 B4 B5 B6 B7 B12			
	C1 C2 C3 C4 C5 C6			
	C7 C8			

Workshop	A1 A2 A3 A4 A5 A63	22	45	67
	B1 B4 B5 B6 B7 B12			
	C1 C2 C3 C4 C5 C6			
	C7 C8			
Guest lecture / keynote speech	A1 A2 A3 A4 A5 A63	13	0	13
	B1 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 guidance only and does not take	into account the k	neterogeneity of the st	Idents

	Methodologies
Methodologies	Description
Introductory activities	With these activities, it is aimed to approach the students into the different type of contents, methodologies, and the learning
	outcomes of this subject (and Analysis of Architectural Forms belonging to the second four-month period) and how they will be
	evaluated.
Supervised projects	This methodology is based on competences and contents of Architectural Technical Drawing; students will be required to
	complete several assignments during both class time practice sessions and non-class time hours allocated for these activities,
	always under the supervision of the teaching staff
	Some of the assignments will consist of exams.
	This section of the course focuses on learning ?how things are done? and the promotion of supervised independent learning
	(this is why the flipped classroom teaching strategy for the theoretical contents is used).
	Class contact hours will be used for:
	1)The proposal and discussion of project topics and related theoretical considerations.
	2)Class time will also include a series of group and/or individual project monitoring sessions, and time for carrying out
	particular tasks on the project in process.
	3)The exams included in the planning, will be done during part of the class hours as well.
Workshop	The workshop section of the module includes both class time practice sessions and non-class time spent on workshop tasks
	assigned and supervised by the professor. This methodology is based on competences and contents of Freehand Drawing,
	and it is focused on learning ?how things are done? (therefore the suitability of the interspersion of the theory into ?condensed
	pills? within the practice) and encouraging supervised independent learning under the supervision of the teaching staff.
	Students will be required to produce a set amount of graphical work (defined in advance by the professor) during the hours
	allocated for workshop activities that the students must perform on a mandatory basis.
	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) Class work (ordinary class hours)
	2) Weekly practical tasks (student's personal work hours)
	3) Final test drawings (final exam)



Guest lecture / keynote speech

Although according to the Annual Teaching Plan (PDA in Spanish) there is an hour devoted for the theoretical contents assigned in this subject (due to an administrative and homogenizer UDC matter), for years theoretical lessons have never been taught in a traditional way. The theoretical contents have always been included within the practice, as it is evidenced by multiple evidences and communications for teaching innovation conferences. However, this academic year, and due to the insistence of the faculty leadership, and against the teaching staff, there is an isolated hour for theory untied from the practice hours, that will have to be divided in two parts to attend both methodologies of the subject.

Theoretical contents 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 teaching staff.

- In the Supervised project methodology, theoretical contents will be taught following the instructional strategy called ?flipped classroom?. That strategy reverses the traditional learning environment by delivering instructional content outside of the classroom. At the beginning of the class-hours, possible doubts on the contents given in advance will be solved; after that, a test will be carried out to check whether everything has been understood.
- On the other hand, the theoretical contents in the Workshop methodology will be developed in theoretical-practical sessions. In general, oral presentations will be carried out, using audiovisual aids and other resources, intended to convey knowledge and encourage learning.

This academic year and due to the exceptional Covid-19 limitations, and to avoid infections, the theoretical contents will be taught under virtual mode through Teams.

The only in-person theoretical session will be held, if possible, for developing the Introductory Activities the first week of the four-month period.

	Personalized attention
Methodologies	Description
Introductory activities	Personalized attention refers to one-to-one meetings between teachers and students, or small group tutoring sessions,
Guest lecture /	designed to offer guidance, support and motivation to students throughout the learning process, and an opportunity to discuss
keynote speech	any questions or difficulties they may have in relation to specific module tasks and activities.
Supervised projects	For this section of the module, as in the other sections, students will be required to keep the professor informed as to the
Workshop	progress of their assignments, to ensure projects meet the necessary standards in each case.
	Given the emphasis on personalized teaching and learning in this module, students will be strictly required to avail of all
	opportunities for engagement offered by the syllabus. Students will ask their teachers for an appointment by email, to
	guarantee both, compliance and temporary provision and avoid unnecessary waiting for students.
	This academic activity, will be carried out by the teaching staff, individually or in a small group, and may be virtual by Teams o
	in person at the choice of each teacher.

		Assessment	
Methodologies	Competencies /	/ Description	
	Results		
Guest lecture /	A1 A2 A3 A4 A5 A63	As already indicated, the theoretical contents of this subject, are focused on how are	0
keynote speech	B1 B4 B5 B6 B7 B12	they put into practice. For this reason, it is not assessed independently and therefore it	
	C1 C2 C3 C4 C5 C6	does not count in the evaluation.	
	C7 C8		
Supervised projects	A1 A2 A3 A4 A5 A63	The final grade in this methodology will be the sum of the following marks:	50
	B1 B4 B5 B6 B7 B12	-The weighted average of all the practical work and exams carried out during the	
	C1 C2 C3 C4 C5 C6	four-month period, will account for the 60% of the global mark of this module	
	C7 C8	- The mark obtained in the final exams (official schedule January and or July) will	
		account for the 40% of the global mark of this module. A mark under 5 in the final	
		exam will result in a failing grade in this module of the subject.	



Workshop	A1 A2 A3 A4 A5 A63	The final grade in this methodology will be the sum of the following marks:	50
	B1 B4 B5 B6 B7 B12	- Class work and Weekly practical tasks will account for a 60% of the total final mark	
	C1 C2 C3 C4 C5 C6	for the module	
	C7 C8	- Final assessment control drawings (final exam) will account for a 40% of the total	
		final mark for the module (official schedule January and or July)-	

Assessment comments



1) Class attendance is compulsory for both methodologies workshop and supervised projects (theoretical and practical sessions) as well as the tutoring attendance. Students who fail to attend to the 80% to all classes will be recorded as ?Absent?. Absences due to illness or other unforeseen circumstances should not exceed the remaining 20%.

Attendance will be recorded by the completion of a series of tests in time and form, exercises and all the scheduled deliveries for the different methodologies.

Students under part-time commitment and other UDC academic exemptions, will not have to meet the previous attendance requirement. However, they will have to meet, everything in relation to the delivery of all the assignments.

- 2) In both methodologies, all the exams will be evaluated by the whole staff of lecturers of the subject to guarantee the homogeneity of the level in all the subgroups.
- 3) The final grade for the course will be the arithmetic mean of the marks achieved by the students in both methodologies, according to the criteria established in each case and obtained according to the percentages (%) indicated above.

Weighted average in the Supervised Projects intends to express the desire to give more value to the latest projects so that to allow the students to mature their graphic skills towards the end of the four-month period.

VERY IMPORTANT: A mark under 5 in one of the methodologies (workshop or Supervised Projects), will result in a failing grade in this subject. In an extraordinary way, students who have passed one of the methodologies and failed the other at the first opportunity, will not have to repeat the approved part at the second opportunity.

Students who have to take the subject again the next year, will have to pass both methodologies again.

- 4) In relation to the delivery of all the assignments, the following requirements, will be taken into account:
- 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.
- Supervised Projects: Assignments will be collected on the day set in the planning or in the proposal.

Late delivery is not allowed. Students who fail to meet this requirement will be recorded as ?Absent?.

For both methodologies, Students under part-time commitment and other UDC academic exemptions, will have to meet the delivery dates of all the assignments. In case this is not possible, they will have to agree with their teachers a new delivery date in advance, as well as for doing the exam (control exercise) if it is needed.

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 professor. 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. Students who fail to attend the weekly tutorial meetings (at the minimum 1 hour), will be recorded as ?Absent?.

5) Second Opportunity (July)

Students who need to sit for the second opportunity, should develop all the assignments assessed as ?absent? and/or those that hadn't got the minimum mark to get a pass in the first opportunity.

In addition, they should take into account the following requirements:

- In relation to the Supervised Projects methodology, they should develop a new ?development assignment? posed by the professors 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 15 days before the date of the exam of the second opportunity. The weighted average of all the practical work will be part for the 60% of the global mark of this module.
- In relation to the Workshop methodology, students should develop a new 'sketchpad' posed by the professors 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.
- For both methodologies, the weighted average of all the practical work will be part for the 60% of the global mark of this module.

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 teacher supervision of all these tasks.

- 7) 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?. Students under part-time commitment and other UDC academic exemptions, will also have to meet the previous requirement.
- 8) 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, Francis (1982). MANUAL DE DIBUJO ARQUITECTÓNICO. México. Ed. G.G. México
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	- Richards, James (2013). FREEHAND DRAWING AND DISCOVERY. New Jersey. Ed. Wiley and Son
	- Uddin, M.S. (2000). DIBUJO AXONOMÉTRICO. México. Ed. McGraw Hill
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	- VanDyke, Scott (1984). DE LA LINEA AL DISEÑO. México. Ed. G.G. México
Complementary	

Subjects that it is recommended to have taken before

Subjects that are recommended to be taken simultaneously

Descriptive Geometry/630G02003

Introduction to Architecture/630G02005

Subjects that continue the syllabus

Analysis of Architectural Forms/630G02007

Other comments

It would be advisable for new students before joining this subject, that previously had completed courses in high school on technical and freehand drawing.

(*)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.