

		Teaching	Guide			
	Identifying D	ata			2021/22	
Subject (*)	Architectural Graphic Expression I [In extinction]			Code	670G01008	
Study programme	Grao en Arquitectura Técnica					
		Descrip	otors			
Cycle	Period	Yea	r	Туре	Credits	
Graduate	2nd four-month period	First	t	Basic training	6	
Language	Spanish		I			
Teaching method	Face-to-face					
Prerequisites						
Department	Expresión Gráfica Arquitectónica					
Coordinador	Gonzalez Sarceda, Manuel		E-mail	manuel.gsarce	da@udc.es	
Lecturers	Gonzalez Sarceda, Manuel		E-mail	manuel.gsarce	da@udc.es	
Web		I				
General description	The drawing of croquis, as all the tech	hnical drawin	igs, has to fulfi	I with two fundamental a	aims: The expression and the	
	communication of ideas, indispensabl	le conditions	for the correct	follow-up of the that thi	s capacitado to read it or interpre	
	it. The student purchases the necessa	ary knowledg	ges to be able	to communicate with oth	ner professionals related with the	
	constructive process. It is the tool or i	instrument by	/ means of whi	ch go to express the kn	owledges purchased in the rest	
	disciplines given in this degree.					
	On the other hand, the analysis and the	the knowledg	e of the differe	nt systems of represent	ation will allow to select the mos	
	convenient to resolve the problem of	the step of th	ne three dimen	sions of the space to the	e two dimensions of the paper, a	
	vice versa, deepening in the represent	entative pragn	natism of the t	echnical architect.		
	When being an asignatura essentially practical, based in the acquisition of skills and skills, is necessary that the student					
	work of way continued along the course. Thus, it is recommended the realisation of all the works proposed by the				lls, is necessary that the student	
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Contingency plan	work of way continued along the cour				•	
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	Study programme competences / results
Code	Study programme competences / results
A6	Coñecer e aplicar os distintos sistemas de representación así como as técnicas e procedementos de expresión gráfica aplicados á
	edificación e ás construcións arquitectónicas.
B2	Capacidade de organización e planificación.
B3	Capacidade para a procura, análise, selección, utilización e xestión da información.
B5	Capacidade para a resolución de problemas.
B6	Capacidade para a toma de decisións.
B7	Capacidade de traballo en equipo.



B14	Aprendizaxe autónomo.
B15	Adaptación a novas situacións.
B25	Hábito de estudo e método de traballo.
B27	Capacidade de comunicación a través da palabra e da imaxe.
B28	Capacidade de improvisación e adaptación para enfrontarse a novas situacións.
C1	Adequate oral and written expression in the official languages.
C3	Using ICT in working contexts and lifelong learning.
C4	Acting as a respectful citizen according to democratic cultures and human rights and with a gender perspective.
C5	Understanding the importance of entrepreneurial culture and the useful means for enterprising people.
C6	Acquiring skills for healthy lifestyles, and healthy habits and routines.
C7	Developing the ability to work in interdisciplinary or transdisciplinary teams in order to offer proposals that can contribute to a sustainable
	environmental, economic, political and social development.
C8	Valuing the importance of research, innovation and technological development for the socioeconomic and cultural progress of society.
C9	Ability to manage times and resources: developing plans, prioritizing activities, identifying critical points, establishing goals and
	accomplishing them.

Learning outcomes			
Learning outcomes	Stud	y progra	imme
	cor	npetenc	es/
		results	
Capacity to apply the development of the croquis, the proporcionalidad, the language and the technicians of the graphic	A6		
representation of the elements and constructive processes.			
Interpretation, preparation, normative and normalisation of the graphic document.	A6		
Capacity to realise taking of data, lifting of planes and the verification of measures that can be of interest for the project, the	A6		
direction and materialisation of the edificación, as well as, the conception, design, definition and technical and technological			
solution of elements, processes and constructive systems.			
Basic rule of application.	A6		
Capacity of organisation and planning.		B2	
Capacity of research, analysis and selection of information.		B3	
Resolution of problems.		B5	
Taking of decisions.		B6	
Work in team.		B7	
Autonomous learning.		B14	
Adaptation to new situations.		B15	
Habit and method of work.		B25	
Capacity of communication through the word and the image.		B27	
Capacity of adaptation and improvisation to confront with new situations		B28	
Express properly, so much of oral form as written, in the official tongues of the autonomous community.			C1
Use the basic tools of the technologies of the information and the communications (TIC) necessary for the exercise of his			C3
profession and for the learning along his life			
Develop for the exercise of an open citizenship, literate, critical, committed, democratic and solidaria, able to analyse the			C4
reality, diagnose problems, formulate and implant solutions based in the knowledge and oriented to the very common.			
Understand the importance of the culture emprendedora and know the means near at hand of the people emprendedoras.			C5
Value criticamente the knowledge, the technology and the available information to resolve the problems with which have to			C6
confront.			1
Assume like professional and citizen the importance of the learning along the life.			C7
Value the importance that has the investigation, the innovation and the technological development in the socioeconomic and			C8
cultural advance of the society.			
Ability to manage times and resources: developing plans, prioritizing activities, identifying critical points, establishing goals and			C9
accomplishing them.			1



	Contents
Торіс	Sub-topic
Systems of representation. Application.	Analyse and learn to perceive simple three-dimensional objects and represent them,
	already was by his seen in the system diédrico as in volume in the axonometric
	Learn to use the system of representation more adapted for each case Capacitar To
	the student with the end to transmit and define objectively the volumetry of an object,
	as well as his constructive sequence (despieces) by means of the systems
	perspectivos isometric, military, cavalier or conical Know the procedures to
	represent curves in the distinct systems Learn to use the system of representation
	adapted to define a constructive detail.
Concept of architectural drawing. Graphic language.	Learn to communicate through the architectural graphic language - Learn, practising,
	the processes of graphic representation in the architecture and his materialisation, so
	much to general level as in his details - Learn to interpret by means of the thought and
	the geometrical syntax-constructive Learn the codes of architectural graphic
	representation.
Instruments of drawing.	Achieve that the student develop in the handle of the instrumental and in the
<u> </u>	knowledge and use of the material of support for the graphic representation
Normalisation. Formats, cajetín.	Know, learn and use the different formats of paper normalised and the election of the
·····	most adapted for the graphic product to realise Identify the element represented, as
	well as the author and other data of interest of an architectural drawing by means of a
	cajetín normalised.
Systems of presentation: grafismo, rotulación.	Know and learn to trace and value the lines with quality, incidiendo in the tone and the
Cystems of presentation. gransmo, rotalación.	weight according to the intentionality.
	 Know the classification of the lines and his correct utilisation in each case.
	- Purchase skills and skills by means of a synchronisation psico-manual that conclude
	in a precision and a rigour in the traced.
	- Know the conventional symbols of the architectural representation.
	- Purchase a discipline and some habits by means of the traced of the form of the
-	letters and know and use his normalisation. The rotulación, letters and figures.
The geometry in the classical orders.	Know and learn to trace and value the classical orders Geometry and modulation
	Graphic and geometrical precision Geometrical study of the forms Geometrical
	constructions of the molduras.
Analysis of the form. Geometrical analysis. Proportional	Learn to perceive the architectural fact by means of the geometrical analysis
analysis. Concept of module.	- Learn to perceive the form and the proportion of the objects
	- Reach a fast perception of the volume of the object to represent.
	- Learn to read the diagram of traced of an architectural fact controlling the process of
	preparation.
	- Learn to decompose geometrically each one of the seen diédricas. Establish
	modules of comparison to determine the proportional laws that determine a sight
	diédrica.
Concept of croquis. Methodology.	- Establish the complete definition of an object by means of his seen diédricas
	Comprise and practise the orthogonal cylindrical projection (the plant, the heaved and
	the profile) and the oblicua - Learn the codes of architectural graphic representation
	Learn to deliver the seen in the paper so that the drawing maintain a balance between
	spaces graficados and spaces in white.
Concept of section. Types. Criteria of election.	Learn to represent the unseen parts in the objects with complex internal composition
	realising ace necessary sections to define them Differentiate the multiple types of
	sections that can employ in the definition of the object Use the number of necessary
	sections to define an object situating them in the appropriate place Represent
	properly the sections differentiating the lines of section of the lines of projection.



Concept of detail. Criteria of selection and seen minimum.	Learn to perceive an object in all his details, transmitting the exact form and his
	dimensions - Learn to classify the different types of details and represent them
	properly Learn to use the system of representation adapted to define a constructive
	detail.
Acotación. Types. Rule. Utensilios Of measure. Taking of	Learn to perceive the dimensions of the object by means of the taking of data
measures. Methodology. Errors.	- Differentiate between taking of measures and acotación.
	- Learn to choose the most adapted sights to have the distinct heights.
	- Learn to have the heights in the distinct seen, according to these find or no
	contained in the parallel planes to the ones of projection.
	- Apply the general principles of the acotación.
	- Learn to choose the elements that define the origin for referenciar objects and parts
	to measure and limit.
	- Learn to have determinate types of height that, by singularity, require a particular
	attention.
	- Learn to situate points by the systems of coordinates and triangulation to determine
	angles and radios.
The drawing by heart.	Learn to represent, trace and value the drawing of implicit ideas in the mind of the
	author The virtual drawing like a half to discover and express the creative or
	constructive intentions The drawing like a basic element of the representation and
	the reinterpretación of the architectural work-constructive.
The put to scale. Types	Learn to comprise and establish the length of the segment drawn and the length of the
	object represented.
	- Learn to decide the size of the object to represent, in function of the intentions that
	govern the traced of the drawing: the far surroundings (vision of group) and the
	immediate surroundings (the details) with the complete definition of the form.
	- Learn to make graphic scales.
Concept of lifting of planes. The taking of data. Methodology.	Learn to perceive and characterise the different materials that take part in the
Systems of measurement. The drawing of cabinet.	construction of the object
	- Learn to value the rigour in the procedure and the accuracy in the work of lifting of
	planes.
	- Analyse an architectural group, splitting of the globalidad and developing it through
	the detail.
	- Learn to decompose in spaces more reduced a building of some complexity.
	- Learn to use instruments advanced of taking of data based in the photographic
	restitution.
	- Learn to establish methods of work in accordance with the architecture that goes to
	be raised gráficamente.

	Plannin	g		
Methodologies / tests	Competencies /	Teaching hours	Student?s personal	Total hours
	Results	(in-person & virtual)	work hours	
Introductory activities	A6 B2 B3 B5 B6 B14	0	40	40
	B15 B25 B28 C3 C7			
Document analysis	A6 B2 B3 B7 B14 B15	0	5	5
	B25 C1 C3 C4 C5 C6			
	C7 C8			
Laboratory practice	A6 B2 B5 B6 B7 B15	40	5	45
	B25 B27 B28 C1 C4			
	C6 C7 C9			



Personalized attention		4	0	4
	C7 C8			
	B28 C1 C3 C4 C5 C6			
Guest lecture / keynote speech	A6 B3 B7 B15 B27	8	0	8
	C4 C7 C8			
Student portfolio	A6 B2 B7 B15 B27 C1	4	0	4
	C6 C7 C9			
	B25 B27 B28 C1 C4			
Dbjective test	A6 B2 B3 B5 B6 B15	4	0	4
	C4 C6 C7 C9			
	B15 B25 B27 B28 C1			
Field trip	A6 B2 B3 B5 B6 B7	0	40	40

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

	Methodologies
Methodologies	Description
Introductory activities	Weekly realisation of drawings manually heaved, in plates DIN A-3, on board, copying and expanding leaves with graphic
	outlines, facilitated in DIN A-4, using hours no face-to-face in classroom.
	Weekly realisation of a practice of rotulación in leaf DIN A-4, using hours no face-to-face in classroom.
Document analysis	Utilisation of the corresponding bibliography, basic and complementary, facilitated.
Laboratory practice	Weekly realisation, using the face-to-face hours in classroom, of croquis manually heaved, in direct, of the university academic
	surroundings, specifically centred in diverse zones of the interior of the E.U. Of Technical Architecture and his external outline,
	square, parkings etc.
Field trip	Weekly realisation of croquis manually heaved, in direct, in an external context to the university academic surroundings,
	sobretodo in the urban zones of Widen, Fishmonger and Ancient Helmet, using hours no face-to-face in classroom, in where
	they developed the capacities related with the direct and systematic observation, collected of information and desarrolo of
	outlines, etc.
Objective test	Group of practical proofs, and works: Croquizaciones of architectural elements, of the natural, manually height; Used in the
	evaluation and progress, of the student, of his learning of knowledges, capacities, skills, performances, aptitudes, attitudes,
	etc.
Student portfolio	In the folder or archivador of the student iran classifying his practical works: Plates of croquizaciones and rotulaciones, by
	dates. And regularly they will have personal sessions, tutorias personalised, with each one for realisations of autoevaluación
	and comments of the professor on his progress.
Guest lecture /	Weekly, before or at the same time that they expose the practical exercises, will realise a presentation or oral explanation
keynote speech	and in blackboard of contents by part of a professor, that will treat the subjects that tackle the practice.

	Personalized attention
Methodologies	Description
Student portfolio	In the folder or archivador of the student iran classifying his practical works: Plates of croquizaciones and rotulaciones, by
	dates. And regularly they will have personal sessions, tutorias personalised, with each one for realisations of autoevaluación
	and comments of the professor on his progress.
	The "Alumnado with recognition of dedication part time and dispenses academician of exemption of assistance", will have to
	put in knowledge of the corresponding professor, said circumstance, to be able to concretise the development of this activity
	as it consider more suitable.

		Assessment	
Methodologies	Competencies /	Description	Qualification
	Results		



Guest lecture /	A6 B3 B7 B15 B27	Weekly, before or at the same time that they expose the practical exercises, will	2
keynote speech	B28 C1 C3 C4 C5 C6	realise a presentation or oral explanation and in blackboard of contents by part of a	
	C7 C8	professor, that will treat the subjects that tackle the practice.	
Student portfolio	A6 B2 B7 B15 B27 C1	In the folder or archivador of the student iran classifying his practical works: Plates of	2
	C4 C7 C8	croquizaciones and rotulaciones, by dates. And regularly they will have personal	
		sessions, tutorias personalised, with each one for realisations of autoevaluación and	
		comments of the professor on his progress.	
Objective test	A6 B2 B3 B5 B6 B15	Group of practical proofs, and works: Croquizaciones of architectural elements, of the	15
	B25 B27 B28 C1 C4	natural, manually height; Used in the evaluation and progress, of the student, of his	
	C6 C7 C9	learning of knowledges, capacities, skills, performances, aptitudes, attitudes, etc.	
Field trip	A6 B2 B3 B5 B6 B7	Weekly realisation of croquis manually heaved, in direct, in an external context to the	15
	B15 B25 B27 B28 C1	university academic surroundings, sobretodo in the urban zones of Widen,	
	C4 C6 C7 C9	Fishmonger and Ancient Helmet, using hours no face-to-face in classroom, in where	
		they developed the capacities related with the direct and systematic observation,	
		collected of information and desarrolo of outlines, etc.	
Document analysis	A6 B2 B3 B7 B14 B15	Utilisation of the corresponding bibliography, basic and complementary, facilitated.	2
	B25 C1 C3 C4 C5 C6		
	C7 C8		
Laboratory practice	A6 B2 B5 B6 B7 B15	Weekly realisation, using the face-to-face hours in classroom, of croquis manually	51
	B25 B27 B28 C1 C4	heaved, in direct, of the university academic surroundings, specifically centred in	
	C6 C7 C9	diverse zones of the interior of the E.U. Of Technical Architecture and his external	
		outline, square, parkings etc.	
Introductory activities	A6 B2 B3 B5 B6 B14	Realisation of drawings manually heaved, in plates DIN A-3, on board, copying and	13
	B15 B25 B28 C3 C7	expanding leaves with graphic outlines, facilitated in DIN A-4, using hours no	
		face-to-face in classroom.	
		Weekly realisation of a practice of rotulación in leaf DIN A-4, using hours no	
		face-to-face in classroom.	
Others			

Assessment comments



The students will have to show, to be evaluated positively, that have reached the necessary knowledges in the contents, mentioned previously, to dominate this matter, and that they would be the following:

1 -Analyse and learn to perceive simple three-dimensional objects and represent them, already was by his seen in the system diédrico as in volume in the axonometric. -Learn to use the system of representation more adapted for each case. -Capacitar To the student with the end to transmit and define objectively the volumetry of an object, as well as his constructive sequence (despieces) by means of the systems perspectivos isometric, military, cavalier or conical. -Know the procedures to represent curves in the distinct systems. -Learn to use the system of representation adapted to define a constructive detail.

2 -Learn to communicate through the architectural graphic language. -Learn, practising, the processes of graphic representation in the architecture and his materialisation, so much to general level as in his details. -Learn to interpret by means of the thought and the geometrical syntax-constructive. -Learn the codes of architectural graphic representation.

3 -Achieve that the student develop in the handle of the instrumental and in the knowledge and use of the material of support for the graphic representation.

4 -Know, learn and use the different formats of paper normalised and the election of the most adapted for the graphic product to realise. -Identify the element represented, as well as the author and other data of interest of an architectural drawing by means of a cajetín normalised.

5 -Know and learn to trace and value the lines with quality, incidiendo in the tone and the weight according to the intentionality. -Know the classification of the lines and his correct utilisation in each case. -Purchase skills and skills by means of a synchronisation psico-manual that conclude in a precision and a rigour in the traced. -Know the conventional symbols of the architectural representation. -Purchase a discipline and some habits by means of the traced of the form of the letters and know and use his normalisation. The rotulación, letters and figures.

6 -Know and learn to trace and value the classical orders. -Geometry and modulation. -Graphic and geometrical precision. -Geometrical study of the forms. -Geometrical constructions of the molduras.

7 -Learn to perceive the architectural fact by means of the geometrical analysis. -Learn to perceive the form and the proportion of the objects. -Reach a fast perception of the volume of the object to represent. -Learn to read the diagram of traced of an architectural fact controlling the process of preparation. -Learn to decompose geometrically each one of the seen diédricas. Establish modules of comparison to determine the proportional laws that determine a sight diédrica.

8 -Establish the complete definition of an object by means of his seen diédricas. -Comprise and practise the orthogonal cylindrical projection (the plant, the heaved and the profile) and the oblicua. -Learn the codes of architectural graphic representation. -Learn to deliver the seen in the paper so that the drawing maintain a balance between spaces graficados and spaces in white.

9 -Learn to represent the unseen parts in the objects with complex internal composition realising ace necessary sections to define them. -Differentiate the multiple types of sections that can employ in the definition of the object. -Use the number of necessary sections to define an object situating them in the appropriate place. -Represent properly the sections differentiating the lines of section of the lines of projection.

10 -Learn to perceive an object in all his details, transmitting the exact form and his dimensions. -Learn to classify the different types of details and represent them properly. -Learn to use the system of representation adapted to define a constructive detail.

11 -Learn to perceive the dimensions of the object by means of the taking of data. -Differentiate between taking of measures and acotación. -Learn to choose the most adapted sights to have the distinct heights. -Learn to have the heights in the distinct seen, according to these find or no contained in the parallel planes to the ones of projection. -Apply the general principles of the acotación. -Learn to choose the elements that define the origin for referenciar objects and parts to measure and limit. -Learn to have determinate types of height that, by singularity, require a particular attention. -Learn to situate points by the systems of coordinates and triangulation to determine angles and radios.

12 -Learn to represent, trace and value the drawing of implicit ideas in the mind of the author. -The virtual drawing like a half to discover and express



the creative or constructive intentions. -The drawing like a basic element of the representation and the reinterpretación of the architectural work-constructive.

13 -Learn to comprise and establish the length of the segment drawn and the length of the object represented. -Learn to decide the size of the object to represent, in function of the intentions that govern the traced of the drawing: the far surroundings (vision of group) and the immediate surroundings (the details) with the complete definition of the form. -Learn to make graphic scales.

14 -Learn to perceive and characterise the different materials that take part in the construction of the object. -Learn to value the rigour in the procedure and the accuracy in the work of lifting of planes. -Analyse an architectural group, splitting of the globalidad and developing it through the detail. -Learn to decompose in spaces more reduced a building of some complexity. -Learn to use instruments advanced of taking of data based in the photographic restitution. -Learn to establish methods of work in accordance with the architecture that goes to be raised gráficamente.

IMPORTANT NOTE:

For the evaluation of the asignatura demands an assistance regulate so much to the classes expositivas as to the interactive, with a minimum of 80% of assistance in each one of them.

The teaching of the asignatura of Graphic Expression I bases in a methodology of learning, subject to a system of continuous evaluation.

To surpass the asignatura, by course will owe to fulfil the following condition:

1.-Have been delivered all the practices and individual works and each one/or of them/will have to have you been considered/or how apt/or.

The students that do not surpass the asignatura by course will have to present to the examination, in the date fixed for the First Opportunity of evaluation (MAY/JUNE) or, in his case, in the date fixed for the Second Opportunity of evaluation (JUNE/JULIO)

IMPORTANT: it will have the condition of NO PRESENTED (BY COURSE) the student that find in any of the following circumstances:

- Not fulfilling with the minimum of assistance demanded.

- Not delivering any of the works proposed.

It will not allow complete or modify the works out of the dates of distinguished delivery.



	Sources of information
Basic	- Llorens, S. (1989). Iniciación al croquis arquitectónico. Madrid. Escuela Universitaria Arquitectura Técnica
	- Iranzo, A (1992). Croquización arquitectónica. Barcelona. Ediciones Rey
	- Rodríguez de Abajo, F.J.; Álvarez Bengoa, V. (1992). Curso de dibujo geométrico y de croquización. San Sebastián.
	Ed. Donostiarra
	- Laprada, A. (). Croquis de arquitectura. Barcelona. Ed. Gustavo Gili
	- Marin Hote, Llerie, J.L. (1982). Introducción al dibujo técnico arquitectónico. México. Ed. Trillas
	- Revilla Blanco, A. (1993). Acotación. San Sebastián. Ed. Donostiarra
	- Sainz, J. (1990). El dibujo de arquitectura teoría e historia de un lenguaje gráfico. Madrid. Ed. Nerea
	- Porter, T.; Goodman, S (1986). Manual de técnicas gráficas para arquitectos, diseñadores y artistas (4 volumenes).
	Barcelona. Ed. Gustavo Gili
Complementary	- Ching, F. (2002). Arquitectura: forma, espacio y orden. Barcelona. Ed. Gustavo Gili
	- Panero, J. (1983). Las dimensiones humanas en los espacios interiores estándares antropométricos. Barcelona. Ed.
	Gustavo Gili
	- Chithan, R. (1982). La arquitectura histórica acotada y dibujada. Barcelona. Ed. Gustavo Gili
	- Hansmann, Christine-Ruth (1994). Las escaleras en la arquitectura. Barcelona. Ed. Gustavo Gili
	- Ching, F. (1995). Diccionario visual de arquitectura. México. Ed. Gustavo Gili
	- Ching, F. (1977). Manual de dibujo arquitectónico . Barcelona. Ed. Gustavo Gili
	- Giacomo Barozzio de VIGNOLA (1981). El vignolas de los propietarios. Regla de los cinco ordenes de arquitectura.
	Murcia. C.O.A. Y A.T.
	- Ghyka Matila, C. (1992). El número de oro ritos y ritmos pitagóricos en el desarrollo de la civilización occidental.
	Barcelona. Ed. Poseidón
	- Ghyka Matila, C. (1983). Estética de las proporciones en la naturaleza y en las artes. Barcelona. Ed. Poseidón

Recommendations	
Subjects that it is recommended to have taken before	
Descriptive Geometry [In extinction]/670G01004	
Subjects that are recommended to be taken simultaneously	
Descriptive Geometry [In extinction]/670G01004	
Subjects that continue the syllabus	
Architectural Graphic Expression II [In extinction]/670G01013	
Geometry of Illustrations [In extinction]/670G01018	
Technical Projects I/670G01023	
Technical Projects II/670G01027	
Interior, Garden and Landscape Design/670G01042	
Other comments	
It could be convenient, but no necessary, have approved the asignatura of descriptive geometry. It could also be recommended to have realised some	
course/you of graphic design. Necessary knowledges: -flat GeometrySystem diédrico to basic level: plant, heaved and profile/section.	
-Normalisation: rotulación and acotaciónScales	

(*)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.