		Teachin	g Guide			
Identifying Data				2016/17		
Subject (*)	Expresión Gráfica Arquitectónica II Code		670G01013			
Study programme	Grao en Arquitectura Técnica					
		Desci	riptors			
Cycle	Period	Ye	ear	Туре	Credits	
Graduate	1st four-month period	Sec	ond	Obligatoria	6	
Language	Spanish					
Teaching method	Face-to-face					
Prerequisites						
Department	Tecnoloxía e Ciencia da Represent	ación Gráfica	a			
Coordinador	Perez Doval, Luis E-mail luis.pdoval@udc.e		es			
Lecturers	Gonzalez Sarceda, Manuel		E-mail manuel.gsarceda@udc.es		da@udc.es	
	Perez Doval, Luis			luis.pdoval@ud	al@udc.es	
Web						
General description	When initiating the third cuatrimestr	e, the studer	nt already knows the	rules of the architec	tural language, has surpassed,	
	likewise, other asignaturas parallel,	but fundame	ental for a progress in	n the understanding	of the architectural fact and his	
	graphic expression. It deepens in the	his reality cal	lled Architecture faci	litating to the student	t, the rules and knowledges that	
	allow him cover and solve each concrete architectural problem, from his foundations. For this is precise a				this is precise a	
	desmenuzamiento of the constructive fact, the arrive to his last details, to his expression, to the knowledge of the disti			to the knowledge of the distinct		
constructive solutions, to the Drawing of Constructive Details, to the Drawing anyway.						
	Understand the drawing like a lang	guage, doing	him see to the stude	ent the universality a	nd precision that the Graphic	
	Representation represents like elem	ment of comm	nunication, as well as	s the foundations of t	the graphic representation and his	
	need.					

	Study programme competences
Code	Study programme competences
A2	Adquirir os coñecementos fundamentais sobre os sistemas e aplicacións informáticas específicos e xerais utilizados no ámbito da edificación.
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.
В3	Capacidade para a procura, análise, selección, utilización e xestión da información.
B5	Capacidade para a resolución de problemas.
В6	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	Expresarse correctamente, tanto de forma oral coma escrita, nas linguas oficiais da comunidade autónoma.
C3	Utilizar as ferramentas básicas das tecnoloxías da información e as comunicacións (TIC) necesarias para o exercicio da súa profesión e para a aprendizaxe ao longo da súa vida.
C4	Desenvolverse para o exercicio dunha cidadanía aberta, culta, crítica, comprometida, democrática e solidaria, capaz de analizar a
	realidade, diagnosticar problemas, formular e implantar solucións baseadas no coñecemento e orientadas ao ben común.
C5	Entender a importancia da cultura emprendedora e coñecer os medios ao alcance das persoas emprendedoras.
C6	Valorar criticamente o coñecemento, a tecnoloxía e a información dispoñible para resolver os problemas cos que deben enfrontarse.
C7	Asumir como profesional e cidadán a importancia da aprendizaxe ao longo da vida.



Valorar a importancia que ten a investigación, a innovación e o desenvolvemento tecnolóxico no avance socioeconómico e cultural da sociedade.

Learning outcomes			
Learning outcomes	Stud	y progra	amme
	СО	mpeten	ces
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.			
Capacity of work in team.		B7	
Capacity of organisation and planning.		B2	
Capacity for it searches, analysis, selection, utilization and management of the information.		В3	
Capacity for the resolution of problems.		B5	
Capacity for it takes of decisions.		B6	
Autonomous learning.		B14	
Adaptation to new situations.		B15	
Frock of study and method of work.		B25	
Capacity of communication through the word and of the image		B27	
Sensibility to subjects related with the protection, preservation and put in value of the cultural and architectural heritage.	A6	B2	
		В3	
		B5	
		B6	
		B7	
		B14	
		B15	
		B25	
		B27	
Purchase the fundamental knowledges envelope the systems and applications specific and general computings used within	A2		
the scope of the edificación.			
Capacity of improvisation and adaptation stop to confronted the new situation.		B28	
Prpers expressed correctly, so much of oral form as writing, in the official tongues of the autonomous community.			C1
Use the basic tools of the technologies of the information and the communications (TIC) necessary stop the exercise of the his			С3
profession and stop the learning along the his life.			
Prpers developed stop the exercise of an open citizenship, literate, critical, engaged, democratic and solidary, able to analyze			C4
the reality, diagnose problems, formulate and implant solutions based in the knowledge and geared to the very common.			
Understand the importance of the entrepreneurial culture and know the means to the range of the entrepreneurial people.			C5
Value critically the knowledge, the technology and the available information to resolve the problems with the that owe to			C6
confronted.			
Assume how 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.			

	Contents
Topic	Sub-topic
Concept of constructive section. Types. Criteria of election.	Learn to represent the parts seccionadas of the buildings with unseen parts of these with complex internal composition Differentiate the multiple types of sections that can employ in the definition of the building, executing them in the appropriate place Use the number of necessary sections to define the construction of a building.
Conditioning of the Terrain. You disassemble.	Demoliciones, explanaciones, disassemble, terraplenados, castings, resolve and pozos. Simbologia And representation grafica. Planes of group and of detail.

Saneamientos, drainages and avenamientos.	Elements of drainage, drain superficial and drain linear.
	Caskets, pozos, manifolds, works of drainage
	Types of drainage:
	-Drainage of walls of containment
	-Drainages of cimentaciones
	-Drainages of soleras, of trasdós, etc
	Planes of group and of details.
Cimentaciones.	Containments:
	-Walls of gravity
	-resistant Walls
	-Screens
	-Pilot
	-Superficial: run, losas, beams centradoras, zapatas.
Structures.	Of steel, Space, Forged, Supports, Beams, Zancas, Of factory, of Concrete, of Brick,
	of Stone.
	General planes and of detail.
Carpinterias.	Of steel, of Light Alloys, of Hormigon, wooden, of PVC,
•	general Planes and of detail.
Defences, Rails, Closings.	Persianas: Types and Systems
<b>3</b>	Rails, Fixations,etc Folding
	, extensible, enrollables, etc
	Guides, capialzados, drum, motorisation etc
	general Planes and of detail.
Factories.	Of block
	Of brick
	Of glass
	Prefabricated
	Etc
	general Planes and of detail.
Installations.	Audiovisual
	Climatización
	Electricity
	Fontaneria
	Gas
	Salubridad
	Rubbishes
	Depuración and poured
	Smokes and gases
	saneamiento
	Ventilation
	Of transport
	Simbologia, general planes and of details.
Partitions.	Mamparas: Steel, Light Alloys, Wood, etc
i diddono.	Doors
	Septums: Brick, Prefabricated,
	general Planes and of detail.

Covers.	Azoteas Ladscaped
	Transitables
	No transitables
	Lucernarios
	Roofs of fibrocemento
	Galvanised
	light Alloys
	Synthetic
	Blackboard
	Of Knit
	Of General
	Flat Zinc and of detail.
Revestimientos.	And paramentos vertical and horizontals:
	Tiled, chapados, enfoscados, light, industrial, wooden, laminados, moquetas, of
	ceilings etc.
	General Planes and of detail.
New materials and systems of ultima generation.	Façades trasventiladas: Stone, Marmol, fenolicos. Ceramicos, Aluminium Etc
	Signposts no portantes of coating of the structural plot of a building.
	General planes and of detail.
Global work Specify.	Work realised by groups of students in him cual develops a work that engloba all the
	matter that explain along the course.

	Planning			
Methodologies / tests	Competencies	Ordinary class	Student?s personal	Total hours
		hours	work hours	
Objective test	A2 A6 B5 B6 B28 C1	6	0	6
	C3			
Supervised projects	A2 A6 B2 B3 B5 B6	55	30	85
	B7 B14 B15 B25 B27			
	B28 C1 C3 C8			
Document analysis	A6 B3 C3 C4 C6 C8	0	5	5
Introductory activities	A2 A6 B25 C1 C3	0	25	25
Student portfolio	A2 A6 B2 B14 C6 C7	6	0	6
	C8			
Field trip	B15 B28 C5	8	0	8
Guest lecture / keynote speech	A6 B3 B6 B14 B25	6	0	6
	B27 C1 C3 C4 C6			
Personalized attention		9	0	9

	Methodologies		
Methodologies	Description		
Objective test	Group of practical proofs, and works of architectural elements, of the natural; Used in the evaluation and progress, of the		
	student, of his learning of knowledges, capacities, skills, performances, aptitudes, attitudes, etc.		
Supervised projects	The student will develop different works or specific practices, referents to the distinct explanations given, following the different		
	marked guidelines and controlled by the professor.		
Document analysis	Utilisation of the corresponding bibliography, basic and complementary, facilitated.		
Introductory activities	Realisation of drawings manually heaved in which they reflect the work of documentation realised on architectural details of		
	the corresponding bibliography.		

Student portfolio	In the folder or archivador of the student will go classifying his practical works by dates. And regularly they will have personal sessions, tutorías personalised, with each one for realisations of autoevaluación and comments of the professor on his progress
Field trip	Inside the possibilities, will try some visit guided to a company or factory of recognised prestige, where the student will be able to observe of direct form, cuales are the processes of manufacture of a material or of a concrete constructive system, as well as of his back put in work.
Guest lecture / keynote speech	Weekly, before or the time that expose the practical exercises that they will have to develop the students, will realise an oral presentation in the blackboard and supported with audiovisual means of the contents of the practice or exercises to realise.

	Personalized attention
Methodologies	Description
Field trip	In the folder or archivador of the student will go classifying his practical works by dates. And regularly they will have personal
Guest lecture /	sessions, tutorías personalised, with each one for realisations of autoevaluación and comments of the professor on his
keynote speech	progress.
Supervised projects	
Introductory activities	To the "Alumnado with recognition of dedication part time and dispenses academician of exemption of assistance",
Student portfolio	recommends them 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	Methodologies Competencies Description		Qualification
Field trip	B15 B28 C5	Specified in the section 5.	10
Objective test	A2 A6 B5 B6 B28 C1	It will value the work developed by the student regarding the quality of the graphic	10
	C3	representation, to the constructive appearance, to the presentation and organisation of	
		the plate, to the rotulación and to the term.	
Supervised projects	A2 A6 B2 B3 B5 B6	They will supervise all and each one of the works developed by the student to	70
	B7 B14 B15 B25 B27	personal level, and will orient him regarding his quality of grafismo, constructive	
	B28 C1 C3 C8	appearances and presentation and where has to incidir to improve the appearances	
		indicated previously.	
Student portfolio	A2 A6 B2 B14 C6 C7	In the folder or archivador of the student iran classifying his practical works: And	10
	C8	regularly they will have personal sessions, tutorias personalised, with each one for	
		realisations of autoevaluación and comments of the professor on his progress.	

Assessment comments	Assessment comments
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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.-Concept of constructive section. Types. Criteria of election.
- 2.-Conditioning of the Terrain. You disassemble.
- 3.-Saneamientos, drainages and avenamientos.
- 4.-Cimentaciones.
- 5.-Structures.
- 6.-Carpentries.
- 7.-Defences, Rails, Closings.
- 8.-Factories.
- 9.-Installations.
- 10.-Partitions.
- 11.-Covers.
- 12.-Revestimientos.
- 13.-New materials and systems of ultima generation.

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 II 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.

This criterion also is applicable so much to the First how to the Second Opportunity:

The students that do not surpass the asignatura by course will have to deliver the corresponding works in the date fixed for the First Opportunity of evaluation (JANUARY) or, in his case, in the date fixed for the Second Opportunity of evaluation (JUNE-JULIO). In these deliveries will have to follow obligatoriamente the indications, fixed in the tutorías corresponding, of the responsible professor of the matter.

IMPORTANT: it will have the condition of NO PRESENTED 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 EL DELINEADO EN LA COSTRUCCIONENRIQUE ANGURA CAMA MANUAL DEL DIBUJO ARQUITECTONICOF.CHIG PRACTICA DEL DIBUJO ARQUITECTONICOF.GARCIA RAMOS NORMAS TECNOLOGICAS DE LA EDIFICACION PREFABRICADOS DE HORMIGONFERNANDO VILAGUR EL LADRILLO Y SUS FABRICASF. CASINELLO LA MADERA EN LA CONSTRUCCIONH. KULLMAN ARQUITECTURA EN MADERA Y SUS TECNICASHAUS JURGEN HAUSEN ANALISIS DE DETALLES CONSTRUCTIVOS PARA OBRA DE NUEVA PLANTA / AUTOR : ROMÁNGONZÁLEZ ÁLVAREZ : TUTOR : SANTIAGO LÓPEZ PIÑEIRO.2001.APROXIMACIONES DE LA ARQUITECTURA AL DETALLE / EDITOR ALEJANDRO CRISPIANI.Santiago de Chile: ARQ, [2001].ATLAS DE DETALLES CONSTRUCTIVOS: CON MÁS DE 400 EJEMPLOS.1ª ed., 3ª reimp.Barcelona: GG, [2006] (2007 imp.).BANCO DE DETALLES ARQUITECTÓNICOS 2002.[Sevilla]: El Autor, [2002].BIBLIOTECA DE DETALLES.Madrid: Ediciones Trazos, [1994].BIBLIOTECA DE DETALLES CONSTRUCTIVOS FORJADOS INCLINADOS : ESTRUCTURAS DECUBIERTA Y FORJADOS INCLINADOS DE HORMIGÓN ARMADO PARA EDIFICACIÓN.UNIDIRECCIONALES, RETICULARES Y LOSAS MACIZAS: MÁS DE 550 DETALLESCONSTRUCTIVOS ADAPTADOS A LA INSTRUCCIÓN EHE / VICENTE CASTELL, BERNABÉ FARRÉ, FLORENTINO REGALADO. [Alicante]: CYPE Ingenieros, [2004]. BIBLIOTECA DE DETALLES CONSTRUCTIVOS METÁLICOS, DE HORMIGÓN Y MIXTOS ENESTRUCTURAS DE EDIFICACIÓN 600 DETALLES ... ADAPTADOS A LA INSTRUCCIÓN EHE /VICENTE CASTELL, BERNABÉ FARRÉ ORO, FLORENTINO REGALADO TESORO.4ª ed.[Madrid]: CYPE Ingenieros, [2004].CATÁLOGO DE ELEMENTOS CONSTRUCTIVOS [RECURSO ELECTRÓNICO] / [COORDINACIÓN, FCO.COSME DE MAZARREDO PAMPLÓ, CARMEN SUBIRÓN RODRIGO; REDACTORES, JAVIER BLANCOCARRANZA ... (ET AL.)]. Valencia: Instituto Valenciano de la Edificación, [2007]. Ford, Edward R.THE DETAILS OF MODERN ARCHITECTURE. Cambridge: Mit Press, 1990-1996.McLeod, Virginia.EL DETALLE EN EL PAISAJISMO CONTEMPORÁNEO.Barcelona: Blume, 2008.McLeod, Virginia.DETALLES CONSTRUCTIVOS DE LA ARQUITECTURA DOMÉSTICA CONTEMPORÁNEA.Barcelona: Gustavo Gili, [2007].Regalado Tesoro, Florentino.DETALLES CONSTRUCTIVOS PRÁCTICOS METÁLICOS, DE HORMIGÓN Y MIXTOS EN ESTRUCTURASDE EDIFICACIÓN / FLORENTINO REGALADO TESORO, BERNABÉ FARRÉ ORO.2ª ed.[Madrid]: CYPE Ingenieros, 1997.Ramsey, Charles George.LAS DIMENSIONES EN ARQUITECTURA / CHARLES GEORGE RAMSEY, HAROLD REEVE SLEEPER EDITOR IN CHIEF JOHN RAY HOKE, JR. Esteban Castro, Anselmo. EXPERIENCIAS SOBRE SOLUCIONES DE MADERA Y SU EMPLEO EN EDIFICACIÓN.Madrid: Proiescon, [2008].Nutsch, Wolfgang.MANUAL DE CONSTRUCCIÓN: DETALLES DE INTERIORISMO.Barcelona: Gustavo Gili, 2006. Complementary

Recommendations

Subjects that it is recommended to have taken before

Materiais I/670G01003

Xeometría Descritiva/670G01004

Expresión Gráfica Arquitectónica I/670G01008

Construción I/670G01009

Subjects that are recommended to be taken simultaneously

Construción II/670G01011

Materiais II/670G01012

Instalacións I/670G01014

Subjects that continue the syllabus

Xeometría da Representación/670G01018

Topografía/670G01020

Proxectos Técnicos I/670G01023

Proxectos Técnicos II/670G01027

Proxecto Fin de Grao/670G01036

Deseño de interiores. xardinaría e paisaxe/670G01042

Other comments



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