		Teachir	ng Guide				
	Identifying	g Data				2021/22	
Subject (*)	Technical Projects I Code			Code	670G01023		
Study programme	Grao en Arquitectura Técnica						
		Desc	riptors				
Cycle	Period	Ye	ear		Туре	Credits	
Graduate	1st four-month period Third Obligatory			6			
Language	Spanish					'	
Teaching method	Face-to-face						
Prerequisites							
Department	Expresión Gráfica Arquitectónica						
Coordinador	Gonzalez Sarceda, Manuel		E-mail	m	anuel.gsarced	a@udc.es	
Lecturers	Gonzalez Sarceda, Manuel		E-mail	m	anuel.gsarced	a@udc.es	
	Perez Doval, Luis			lu	is.pdoval@udo	e.es	
Web							
General description	IT HAS TO HAVE THE CONCEPT	UAL BASIC I	NOTIONS ABOU	JT THE DE	SIGN, BY WH	AT THE STUDENT WILL FORM	
	IN METHODOLOGIES TO BE ABI	LE TO FACE	UP TO DESIGN	IS OF EDIF	FICACIÓN, SO	MUCH OF REHABILITATION AS	
	OF NEW CONSTRUCTIONS, PUR	RCHASING T	HE CAPACITY	TO DRAFT	, ANALYSE, C	ONTROL, MANAGE AND	
	DEVELOP TECHNICAL PROJECTS IN THE FIELD OF THE EDIFICACIÓN. STUDY OF THE ANTECEDENTS AND THE						
	NEEDS OF PLANNING OF THE D	ESIGN IN TH	HE REHABILITA	TION. REL	ATIVE KNOW	LEDGES TO THE TAKING OF	
	DATA AND PREVIOUS PLANNING. CAPACITY FOR THE ESTABLISHMENT OF A METHODOLOGICAL PROCESS IN						
	THE REALISATION OF THE PROJECT. KNOWLEDGE OF THE BASIC ELEMENTS OF THE DESIGN, HIS FOR				ENT OF A MET	HODOLOGICAL PROCESS IN	
	THE REALISATION OF THE PRO						
	THE REALISATION OF THE PRO	JECT. KNOV	VLEDGE OF TH	E BASIC E	LEMENTS OF	THE DESIGN, HIS FORM AND	
		JECT. KNOV ICAL SPACE	VLEDGE OF TH CAPACITY TO	E BASIC E REALISE	LEMENTS OF PROJECTS O	THE DESIGN, HIS FORM AND F REHABILITATION OR	
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	Study programme competences		
Code	Study programme competences		
A15	Redactar proxectos técnicos no ámbito da edificación.		
A27	7 Desenvolver auditorías de proxectos e de execución de obras.		
A29	Elaborar estudos, certificados, ditames, documentos e informes técnicos.		
A31	Redactar, analizar, controlar, xestionar e desenvolver proxectos técnicos.		
B1	B1 Capacidade de análise e síntese.		
B2	Capacidade de organización e planificación.		

B7	Capacidade de traballo en equipo.
B13	Compromiso ético.
B15	Adaptación a novas situacións.
B16	Capacidade de aplicar os coñecementos na práctica.
B19	Capacidade de liderado, diálogo e negociación.
B23	Orientación a resultados.
B24	Orientación ao cliente.
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	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			Study programme	
			competences	
Aptitude to draft technical projects of works and constructions, that do not require architectural project, as well as projects of	A15			
demolición and decoration.				
Knowledges of the organisation of the professional work and of the studies, offices and professional societies, the	A27			
reglamentación and the legislation related with the functions that develops the Technical Architect and the frame of				
responsibility associated to the activity.				
Capacity of analysis of the projects of execution and his traslación to the execution of the works.	A27			
Aptitude to draft documents that form part of projects of execution elaborated in shape multidisciplinary.	A29			
Capacity to apply the normative technician to the process of the edificación, and generate documents of technical specification	A29			
of the procedures and constructive methods of buildings.	A31			
Aptitude to analyse, design and execute solutions that facilitate the universal accessibility in the buildings and his surroundings	A31			
Capacity to analyse and draft projects of evacuation of buildings.	A31			
Capacity of analysis and synthesis.		B1		
Capacity of organisation and planning.		B2		
Capacity of work in team.		В7		
Ethical commitment.		B13		
Adaptation to new situations		B15		
Capacity to apply the knowledges in practice.		B16		
Capacity of leadership, dialogue and negotiation.		B19		
Orientation to results.		B23		
Orientation to the client.		B24		
Prpers expressed correctly, so much of oral form as writing, in the official tongues of the autonomous community.			C1	
Dominate the expression and the understanding of oral form and writing of a foreign language.			C2	
Use the basic tools of the technologies of the information and the communications (TIC) necessary stop the exercise of the his			СЗ	
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
Valuing the importance of research, innovation and technological development for the socioeconomic and cultural progress of		C8
society.		
Ability to manage times and resources: developing plans, prioritizing activities, identifying critical points, establishing goals and		C9
accomplishing them.		

	Contents
Topic	Sub-topic Sub-topic
Introduction	Development of the asignatura, length ,assistance, assessment and material
Project	Definition of the project, the parts of the manufacture of one project, the project of
	edificación. Definition and parts of the even.
Tools of a diseño	The point; Línea; Angles and flat figures; Volúmenes; Colores; The vertical and
	horizontal and the meaning of all estos elements in the symbolic plane.
The basic plane and the importance of the handle of this flat	Basic plane and disposal of points of maximum and minimum tension.
	The diseño graphic. Application of the basic flat method.
Methodology to project	Zones, subzonas, areas and interrelación between areas and zones. Knowledge of
	the space and of the object that occupy it. Project areas of the building, bedroom, be,
	kitchen, bathroom, etc.
Project of feasibility	Development of one project of rehabilitación stop a client of a building cataloged of the
	Coruña. Practical case.

	Planning			
Methodologies / tests	Competencies	Ordinary class hours	Student?s personal work hours	Total hours
Document analysis	A27 B1 B2 B7 B13	0	30	30
	B16 B23 C2 C3 C4 C5 C6			
Laboratory practice	A27 A31 B1 B2 B7 B16 B23 B24 C1 C3 C6 C7 C9	28	20	48
Problem solving	A15 A29 A31 B1 B2 B7 B16 B24 C1 C3 C4 C7 C8	4	0	4
Supervised projects	A15 A27 A31 B1 B2 B13 B15 B16 B19 B24 C1 C3 C6 C9	14	40	54
Student portfolio	A15 B2 B7 B15 B19 B23 C1 C4 C7 C8	4	0	4
Guest lecture / keynote speech	A29 A31 B1 B13 B16 B23 C1 C4 C7	8	0	8
Personalized attention		2	0	2

Methodologies			
Methodologies	Description		
Document analysis	ocument analysis UTILIZATION OF THE CORRESPONDING BIBLIOGRAPHY.		
Laboratory practice THEY WILL SERVE THESE PRACTICES TO DO CORRECTIONS DOS EXERCISES.			

Problem solving	THEY WILL DO PUBLICLY IN TIME PRESENCIAIS WHERE ALL WILL BE ABLE TO TAKE PART GIVING HIS POINT OF
	VIEW OF THE SOLUTION.
Supervised projects	SPLIT DOS EXERCISES WILL BE PLANTEADOS AND RESOLVED IN SCHEDULE NO PRESENCIAL WITH THE
	CORRESPONDING DISCUSSION AND CORRECTION SAME DOS IN TIME PRESENCIAL.
Student portfolio	THEY WILL GO SAVING ALL THE WORKS OF THE STUDENT IN A CARPETA THAT HE EVEN SAYS IN THE BEGINNING
	OF THE COURSE. THEY WILL HAVE PERSONAL SESSIONS WITH THE STUDENTS IN TITORWENT SO THAT THEY DO
	AUTOCORRECCIÓNS DOS WORKS.
Guest lecture /	WEEKLY BEFORE THEY EXPOSE THE PRACTICAL EXERCISES, WILL DO AN ORAL EXHIBITION AND IN THE
keynote speech	PIZARFROG DOS CONTENTS BY PART OF THE PROFESSOR THAT WILL TREAT OF ARE AFRAID GOES TO BOARD
	IN PRACTICE.

Personalized attention				
Methodologies	Description			
Student portfolio	THEY WILL GO SAVING ALL THE WORKS OF THE STUDENT IN A FOLDER, THAT THE SAME DESIGNED TO THE			
	BEGINNING OF THE COURSE. THEY WILL HAVE SESSIONS WITH THE STUDENTS IN TITORWENT, SO THAT THEY			
	DO AUTOCORRECCIONS OF THE WORKS.			
	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	
Document analysis	A27 B1 B2 B7 B13	Use of the corresponding bibliography.	2	
	B16 B23 C2 C3 C4			
	C5 C6			
Student portfolio	A15 B2 B7 B15 B19	All the student's works will be saved into a folder designed by themselves at the	2	
	B23 C1 C4 C7 C8	course start.		
		Students can get personal attention in tutorial hours to do self-correction of their		
		works.		
Laboratory practice	A27 A31 B1 B2 B7	This practices will be to do corrections on the student works.	51	
	B16 B23 B24 C1 C3			
	C6 C7 C9			
Guest lecture /	A29 A31 B1 B13 B16	Weekly, the professor will explain the topics of the practical work to be developed by	2	
keynote speech	B23 C1 C4 C7	the students and after this, the students will expose the works developed along the		
		week before.		
Problem solving	A15 A29 A31 B1 B2	Problem solving will be done in the classroom with all students who must be take part	13	
	B7 B16 B24 C1 C3	to reach solutions from their own point of view.		
	C4 C7 C8			
Supervised projects	A15 A27 A31 B1 B2	Part of the exercises can be solved out of the classroom timetable but discussed and	30	
	B13 B15 B16 B19	corrected into the classroom timetable.		
	B24 C1 C3 C6 C9			

Assessment comments



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 Technical Projects I bases in a methodology of Learning Based in Projects (ABP), subjects to a system of continuous evaluation.

- 1.- The qualification of the students has a definite support in the practices and works tutelados of the same, with the percentages of assessment, distinct, that establish in the previous criteria of evaluation.
- 2.- The practices and works tutelados delivered, all and all they compulsory, have distinct character:
- To.- Entregables evaluables (Around the eight practices).
- B.- Selective (a practice).
- 3.- The last practice, composed of two parts, a proyectiva and another valorativa, having to surpass the two; and the final result does average with the others practise of the course.

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	- WUCIUS WONG (). FUNDAMENTOS DEL DISEÑO BIDIMENSIONAL Y TRIDIMENSIONAL.
	- BRUNO MUNARI (). DISEÑO Y COMUNICACIÓN VISUAL. CONTRIBUCIÓN A UNA METODOLOGÍA DIDÁCTICA
	- JONES CHRISTOPHER. (). MÉTODOS DE DISEÑO.
	- FRANCIS D.K. CHING (). ARQUITECTURA: FORMA, ESPACIO Y ORDEN
	- FRANCIS D.K. CHING Y STEVEN P. JOROSZEK (). DIBUJO Y PROYECTO
	- ERNST NEUFERT (). ARTE DE PROYECTAR EN ARQUITECTURA.
	- FRANCISCO DE GRACIA (). CONSTRUIR EN LO CONSTRUIDO: LA ARQUITECTURA COMO MODIFICACIÓN.
	- PÉREZ GUERRA (). DICTÁMENES Y ESTUDIOS DE DERECHO URBANO. EDITORIAL MONTE CORVO
	- GALLEGO ANABITARTE (). LEY DEL SUELO. EDITORIAL I.F.I.
	- GONZÁLEZ PÉREZ, J. (). COMENTARIOS A LA LEY DEL SUELO. EDITORIAL CIVITAS
	- FERNÁNDEZ ALBA (). IDEOLOGÍA Y ENSEÑANZA DE LA ARQUITECTURA EN ESPAÑA. EDITORIAL TUCAR
	- GONZÁLEZ VELAYOS, E. (). BREVE HISTORIA DE UNA LARGA PROFESIÓN. EDITORIAL C.G.C.C.O.O.A.
	- RUÍZ SERRA, R. (). RÉGIMEN DE FINCAS RUINOSAS EDITORIAL M.O.P.U.
	- RUDOLF PRENZEL (). DISEÑO Y TÉCNICA DE LA REPRESENTACIÓN EN ARQUITECTURA ED. GUSTAVO
	GILI
	- K.D. PORTMAN (). SIGNOS Y SÍMBOLOS DE LOS DISEÑOS DE LA CONSTRUCCIÓN ED. GUSTAVO GILI
	- HENRICH SCHMITT (). TRATADO DE LA CONSTRUCCIÓN ED. GUSTAVO GILI
	- Panero, J. (1983). Las dimensiones humanas en los espacios interiores estándares antropométricos. Barcelona. Ed.
	Gustavo Gili
Complementary	

Recommendations

Subjects that it is recommended to have taken before

Materials I [In extinction]/670G01003

Descriptive Geometry [In extinction]/670G01004

Architectural Graphic Expression I [In extinction]/670G01008

Construction I [In extinction]/670G01009

Construction II [In extinction]/670G01011

Materials II [In extinction]/670G01012

Architectural Graphic Expression II [In extinction]/670G01013

Facilities I [In extinction]/670G01014

Geometry of Illustrations [In extinction]/670G01018

Topography [In extinction]/670G01020

Facilities II/670G01024

Subjects that are recommended to be taken simultaneously

Construction III [In extinction]/670G01017

Materials III [In extinction]/670G01016

Facilities III/670G01035

Subjects that continue the syllabus

Technical Projects II/670G01027

Final Dissertation/670G01036

Interior, Garden and Landscape Design/670G01042

Other comments



NOTE: For the correct follow-up and aprovechamiento of the matter considers convenient the knowledge and handle of computer programs of design assisted (AutoCAD, ArchiCad, Revit, SketchUP, etc.), as well as of computer programs of character ofimático (processing of texts, leaves of calculation, management of PDFs, treatment of images, presentations, etc.).

It recommends attend to the interactive classes (Workshop of Technical Projects I) provistos of a portable computer with access to Internet.

(*)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.