		Teachin	g Guide			
Identifying Data					2022/23	
Subject (*)	Technical Projects I Code			670G01124		
Study programme	Grao en Arquitectura Técnica					
		Desc	riptors			
Cycle	Period	Ye	ear	Туре	Credits	
Graduate	1st four-month period	Th	ird	Obligatory	6	
Language	Spanish					
Teaching method	Face-to-face					
Prerequisites						
Department	Expresión Gráfica Arquitectónica					
Coordinador	Gonzalez Sarceda, Manuel		E-mail	manuel.gsarced	da@udc.es	
Lecturers	Gonzalez Sarceda, Manuel		E-mail	manuel.gsarceda@udc.es		
	Perez Doval, Luis luis.pdoval@udc.es		lc.es			
Web						
General description	IT HAS TO HAVE THE CONCEPT	TUAL BASIC N	NOTIONS ABOUT T	HE DESIGN, BY WH	HAT THE STUDENT WILL FORM	
	IN METHODOLOGIES TO BE AB	LE TO FACE	UP TO DESIGNS C	F EDIFICACIÓN, SO	MUCH OF REHABILITATION AS	
	OF NEW CONSTRUCTIONS, PU	RCHASING T	HE CAPACITY TO	DRAFT, ANALYSE, (CONTROL, MANAGE AND	
	DEVELOP TECHNICAL PROJECTS IN THE FIELD OF THE EDIFICACIÓN. STUDY OF THE ANTECEDENTS AN			THE ANTECEDENTS AND THE		
NEEDS OF PLANNING OF THE DESIGN IN THE REHABILITATION. RELATIVE KNOWLEDGES TO THE TAKING			VLEDGES TO THE TAKING OF			
	DATA AND PREVIOUS PLANNING. CAPACITY FOR THE ESTABLISHMENT OF A METHODOLOGICAL PROCES			THODOLOGICAL PROCESS IN		
	THE REALISATION OF THE PROJECT. KNOWLEDGE OF THE BASIC ELEMENTS OF THE DESIGN, HIS FORM			F THE DESIGN, HIS FORM AND		
	HIS IMPORTANCE IN THE PHYSICAL SPACE. CAPACITY TO REALISE PROJECTS OF REHABILITATION OR				OF REHABILITATION OR	
	RESTORATION ATTENDING SO MUCH TO HIS FORMAL APPEARANCE, FUNCTIONAL OR TO HIS EXECUTION.					
	ASSESSMENT OF TIME AND METHODS OF EXECUTION. CAPACITY FOR THE REALISATION OF A PROJECT OF					
FEASIBILITY WITH EXCELLENT RESULT.						

	Study programme competences / results
Code	Study programme competences / results
A61	A3.6 Ability to analyse and create building evacuation plans.
A74	A6.1 Ability to use advanced tools to meet and manage technical plan elements.
A75	A6.2 Ability to draft technical plans for work and building that do not require architectural plans, and for demolition and decoration works.
A76	A6.3 Ability to draft documents related to multidisciplinary construction projects.
A77	A6.4 Ability to analyse and implement construction plans.
A78	A6.5 Ability to analyse, design and implement solutions to create universal access to buildings and their external environment.
B31	B1 Students will demonstrate knowledge and understanding of subjects that build upon the foundation of a general secondary education
	using advanced textbooks and ideas and analyses from the cutting edge of their field.
B32	B2 Students will be able to use their knowledge professionally and will possess the skills required to formulate and defend arguments and
	solve problems within their area of study.
B33	B3 Students will have the ability to gather and interpret relevant data (especially within their field of study) in order to make decisions and
	reflect on social, scientific and ethical matters.
B34	B4 Students will be able to communicate information, ideas, problems and solutions to specialist and non-specialist audiences alike.
B35	B5 Students will develop the learning skills and autonomy they need to continue their studies at postgraduate level.
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	ımme		
	con	npetenc	es/		
			results		
Ability to analyse and create building evacuation plans.	A61				
Ability to use advanced tools to meet and manage technical plan elements.	A74				
Ability to draft technical plans for work and building that do not require architectural plans, and for demolition and decoration	A75				
works.					
Ability to draft documents related to multidisciplinary construction projects.	A76				
Ability to analyse and implement construction plans.	A77				
Ability to analyse, design and implement solutions to create universal access to buildings and their external environment.	A78				
Students will demonstrate knowledge and understanding of subjects that build upon the foundation of a general secondary		B31			
education using advanced textbooks and ideas and analyses from the cutting edge of their field.					
Students will be able to use their knowledge professionally and will possess the skills required to formulate and defend		B32			
arguments and solve problems within their area of study.					
Students will have the ability to gather and interpret relevant data (especially within their field of study) in order to make		B33			
decisions and reflect on social, scientific and ethical matters.					
Students will be able to communicate information, ideas, problems and solutions to specialist and non-specialist audiences		B34			
alike.					
Students will develop the learning skills and autonomy they need to continue their studies at postgraduate level.		B35			
Adequate oral and written expression in the official languages.			C1		
Using ICT in working contexts and lifelong learning.			C3		
Acting as a respectful citizen according to democratic cultures and human rights and with a gender perspective.			C4		
Understanding the importance of entrepreneurial culture and the useful means for enterprising people.			C5		
Acquiring skills for healthy lifestyles, and healthy habits and routines.			C6		
Developing the ability to work in interdisciplinary or transdisciplinary teams in order to offer proposals that can contribute to a			C7		
sustainable environmental, economic, political and social development.					
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	
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.	

	Plannin	g		
Methodologies / tests	Competencies /	Teaching hours	Student?s personal	Total hours
	Results	(in-person & virtual)	work hours	
Document analysis	A74 B31 B32 B33 C3	0	30	30
	C6 C7 C8 C9			
Laboratory practice	A61 A77 A78 B32	28	20	48
	B33 B34 C1 C3 C6			
	C7 C9			
Problem solving	A61 A75 A76 A77	4	0	4
	A78 B31 B32 B33			
	B34 B35 C1 C4 C5			
	C6 C7 C9			
Supervised projects	A61 A74 A75 A76	14	40	54
	A77 A78 B32 B33			
	B34 C1 C3 C6 C7 C9			
Student portfolio	A74 A76 A77 B32 C1	4	0	4
	C6 C9			
Guest lecture / keynote speech	A74 B33 C4 C6 C9	8	0	8
Personalized attention		2	0	2
(*)The information in the planning table is fo	or guidance only and does not	take into account the I	neterogeneity of the stud	lents.

	Methodologies
Methodologies	Description
Document 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
	Results		

Problem solving	A61 A75 A76 A77	Problem solving will be done in the classroom with all students who must be take part	13
	A78 B31 B32 B33	to reach solutions from their own point of view.	
	B34 B35 C1 C4 C5		
	C6 C7 C9		
Document analysis	A74 B31 B32 B33 C3	Use of the corresponding bibliography.	2
	C6 C7 C8 C9		
Supervised projects	A61 A74 A75 A76	Part of the exercises can be solved out of the classroom timetable but discussed and	30
	A77 A78 B32 B33	corrected into the classroom timetable.	
	B34 C1 C3 C6 C7 C9		
Student portfolio	A74 A76 A77 B32 C1	All the student's works will be saved into a folder designed by themselves at the	2
	C6 C9	course start.	
		Students can get personal attention in tutorial hours to do self-correction of their	
		works.	
Guest lecture /	A74 B33 C4 C6 C9	Weekly, the professor will explain the topics of the practical work to be developed by	2
keynote speech		the students and after this, the students will expose the works developed along the	
		week before.	
Laboratory practice	A61 A77 A78 B32	This practices will be to do corrections on the student works.	51
	B33 B34 C1 C3 C6		
	C7 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

Building Facilities II/670G01123

Construction II/670G01115

Architectural Graphic Expression II/670G01117

Topography and Setting out/670G01119

Construction Materials I/670G01105

Construction I/670G01106

Building Facilities I/670G01112

Construction Materials II/670G01113

Descriptive and Representation Geometry/670G01102

Digital Graphic Tools for Building/670G01109

Architectural Graphic Expression I/670G01103

Subjects that are recommended to be taken simultaneously

Building Facilities III and Urban Facilities/670G01132

Construction III/670G01122

Construction Materials III/670G01118

Subjects that continue the syllabus

Interior Design, Gardening and Landscaping/670G01135

Technical Projects II/670G01128

Degree Final Project /670G01140

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.