

		Teaching Guide				
	Identifying	g Data		2023/24		
Subject (*)	Degree Final Project		Code	670G01140		
Study programme	Grao en Arquitectura Técnica			I		
		Descriptors				
Cycle	Period	Year	Туре	Credits		
Graduate	2nd four-month period	Fourth	Obligatory	12		
Language	Spanish					
Teaching method	Face-to-face					
Prerequisites						
Department	Construcións e Estruturas Arquitectónicas, Civís e AeronáuticasDereito PrivadoEconomíaEnxeñaría CivilExpresión Gráfica					
	ArquitectónicaFísica e Ciencias da	a Terra				
Coordinador	Robles Sanchez, Susana E-mail susana.robles@udc.ex			@udc.es		
Lecturers	Robles Sanchez, Susana	E-mail	susana.robles@	susana.robles@udc.es		
Web	euat.udc.es/grado-en-ie/informaci	euat.udc.es/grado-en-ie/informacion-tfg				
General description	La información relativa al Trabajo Fin de Grado está disponible en la web de la Escuela.					
	Toda la información aquí: http://eu	at.udc.es/es/informacion-tfg				

	Study programme competences / results
Code	Study programme competences / results
A36	A0.1 Ability to use applied knowledge of calculus, numerical analysis, linear algebra, coordinate and differential geometry, statistical
	analysis and probability.
A37	A0.2 Applied knowledge of the principles of general mechanics, structural systems statistics, mass point geometry, and elastic behaviour
	of solids (principles and analysis methods).
A38	A0.3 Ability to use spatial representation systems, sketching, dimensioning, and graphical representation language and techniques for
	building elements and processes.
A39	A0.4 Understanding of the chemical properties of the materials used in construction, how they are made and tested, their geological original original construction and tested are made and tested are made and tested are made and tested are made are made and tested are made are made are made are made and tested are made
	and environmental impact, and recycling and waste management strategies.
A40	A0.5 Understanding of the basic and theoretical principles of fluid mechanics, hydraulics, electricity and electromagnetism, calorimetry,
	hygrothermal analysis and acoustics applied to construction.
A41	A0.6 Working knowledge of the concept of business, legal business frameworks, models of organisation, planning, oversight and strateg
	decision-making in contexts of risk, certainty and uncertainty, systems of production, costs, funding sources, and budget and financial
	planning.
A42	A0.7 Ability to manage small companies and work as part of a multidisciplinary team at a large company.
A43	A0.8 Basic understanding of the legal framework governing public sector bodies and the procedures for public and private sector
	procurement.
A44	A1.1 Ability to read and create plans and drawings, carry out data collection, draft site plans and conduct as-built surveys of completed
	sections of the work.
A45	A1.2 Understanding of architectural infographics and construction mapping methods and techniques.
A46	A1.3 Ability to use topographical surveying equipment, and conduct subsequent drafting of site and building plans and setting out.
A47	A2.1 Understanding of the different types and physical and mechanical properties of traditional and prefabricated building materials and
	systems.
A48	A2.2 Ability to adapt building materials to the type of building and its intended use, manage, oversee and monitor reception, quality and
	installation of materials, completion of each stage of the work, and final tests and checks.
A49	A2.3 Understanding of the historical evolution of building elements and techniques, and the structural systems behind certain stylistic
	forms.
A50	A2.4 Ability to select building elements and systems, define their function, assess compatibility, and oversee their installation and
	implementation.
A51	A2.5 Ability to address and resolve construction details.



A52	A2.6 Understanding of the specific monitoring and inspection procedures to be carried out during construction.
A53	A2.7 Ability to establish the signs and causes of building damage, propose solutions for the repair and prevention of defects, and analyse
	the useful life of building elements and systems.
A54	A2.8 Ability to participate in renovation work on buildings and restoration and conservation work on built heritage.
A55	A2.9 Ability to create and manage the implementation of building maintenance plans and manuals.
A56	A3.1 Ability to apply building rules and standards, and draw up technical specifications in relation to building methods and procedures.
A57	A3.2 Ability to apply specific standards and regulations governing technical installations.
A58	A3.3 Ability to carry out initial sizing, design, calculation and testing of structures, and oversee their implementation.
A59	A3.4 Ability to design and develop building systems and facilities, plan and monitor their installation, inspect commissioning and
	completion testing, and monitor maintenance.
A60	A3.5 Understanding of techniques and procedures for assessing building energy efficiency.
A61	A3.6 Ability to analyse and create building evacuation plans.
A62	A4.1 Ability to plan and organise construction processes, equipment, and human and technical resources to carry out construction and
7.02	maintenance work.
A63	A4.2 Understanding of construction law and the contractual relationships created at different stages of the building process.
	A4.2 Onderstanding of construction haw and the contraction relationships created at different stages of the building process. A4.3 Ability to create a basic health and safety study, and a health and safety survey and plan, and coordinate workplace safety at the
A64	
A65	planning and building stages of the project. A4.4 Ability to manage quality control during construction, to draft, apply, implement and update quality control plans and manuals, to aud
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100	companies? quality control management practices, and to create a building record for the project.
A66	A4.5 Understanding of the professional framework and qualifications structure for Architectural Technicians, professional offices and
107	associations, codes and regulations governing the activities of the profession, and the responsibilities associated with the role.
A67	A4.6 Working knowledge of legislation and specific regulations governing construction health and safety management and protection.
A68	A4.7 Understanding of environmental impact and sustainability assessment in relation to building and demolition processes.
A69	A4.8 Understanding of the roles and responsibilities of the different participants in the building process, their professional or business
	structures, and associated administrative and management processes.
A70	A4.9 Understanding of the professions and basic procedures involved in building and development.
A71	A5.1 Ability to estimate basic, unit, supplementary unit and item prices, create a price plan, analyse and monitor costs during the
	construction process, and prepare quotes.
A72	A5.2 Ability to carry out market research, assessment and valuation, building feasibility studies, and appraisal and valuation of financial
	risk and losses.
A73	A5.3 Understanding of the legal framework for urban planning and management.
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.
B36	B6 Ability to analyse and summarise information.
B37	B7 Ability to organise, plan and work as part of a team.
B38	B8 Ability to search for, analyse, select, apply and manage information with a view to continuing their professional self-education on an
	ongoing basis.
B39	B9 Digital literacy skills relevant to their area of study.
	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	Study programme
	competences /
	results



Según la ORDEN ECI/3855/2007, de 27 de diciembre, por la que se establecen los requisitos para la verificación de los títulos		B31	C1
universitarios oficiales que habiliten para el ejercicio de la profesión de ArquitectoTécnico, el TFG comprenderá la	A37	B32	C3
presentación y defensa ante un tribunal universitario del mismo, consistente en un ejercicio de integración de los contenidos	A38	B33	C4
formativos recibidos y las competencias adquiridas.	A39	B34	C5
	A40	B35	C6
	A41	B36	C7
	A42	B37	C8
	A43	B38	C9
	A44	B39	
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	A46		
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Contents			
Topic Sub-topic			
PFG	Proyecto dirigido por un profesor de la titulación, consistente en un ejercicio de		
	integración de los contenidos formativos recibidos y las competencias adquiridas.		



	Planning	g		
Methodologies / tests	Competencies /	Teaching hours	Student?s personal	Total hours
	Results	(in-person & virtual)	work hours	
Supervised projects	A78 A77 A76 A75	70	195	265
	A74 A73 A72 A71			
	A70 A69 A68 A67			
	A66 A65 A64 A63			
	A62 A61 A60 A59			
	A58 A57 A56 A55			
	A54 A53 A52 A51			
	A50 A49 A48 A47			
	A46 A45 A44 A43			
	A42 A41 A40 A39			
	A38 A37 A36			
Oral presentation	B31 B32 B33 B34	1	1	2
	B35 B36 B37 B38			
	B39 C1 C3 C4 C5 C6			
	C7 C8 C9			
Personalized attention		33	0	33

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

Methodologies				
Methodologies	Description			
Supervised projects	Según la ORDEN ECI/3855/2007, de 27 de diciembre, por la que se establecen los requisitos para la verificación de los títulos			
	universitarios oficiales que habiliten para el ejercicio de la profesión de ArquitectoTécnico, el TFG comprenderá la			
	presentación y defensa ante un tribunal universitario del mismo, consistente en un ejercicio de integración de los contenidos			
	formativos recibidos y las competencias adquiridas.			
Oral presentation	Defensa oral pública ante un tribunal del trabajo realizado.			

	Personalized attention
Methodologies	Description
Oral presentation	Todo el proceso estará dirigido por el Director del PFG, que será seleccionado por el alumno o por el Centro.
Supervised projects	

Assessment				
Methodologies	Competencies /	Description	Qualification	
	Results			
Oral presentation	B31 B32 B33 B34	La evaluación se hará según el Reglamento de los TFG de la EUAT.	25	
	B35 B36 B37 B38			
	B39 C1 C3 C4 C5 C6			
	C7 C8 C9			



Supervised projects	A78 A77 A76 A75	El análisis previo del trabajo realizado por parte del tribunal establecerá un 75% de la	75
	A74 A73 A72 A71	calificación resultante.	
	A70 A69 A68 A67		
	A66 A65 A64 A63		
	A62 A61 A60 A59		
	A58 A57 A56 A55		
	A54 A53 A52 A51		
	A50 A49 A48 A47		
	A46 A45 A44 A43		
	A42 A41 A40 A39		
	A38 A37 A36		

## Assessment comments

https://euat.udc.es/images/INFORMACION\_GENERAL/20210324\_REGLAMENTO\_TFG\_ES.pdf

El Reglamento está en proceso de cambio, por lo que se aplicará el vigente en el momento de la solicitud de la defensa.

La calificación resultante del PFG será el resultado de la ponderación, a partes iguales del tribunal (3 miembros) y el Director del PFG.

(25% cada uno).

	Sources of information
Basic	
Complementary	

Recommendations
Subjects that it is recommended to have taken before
Subjects that are recommended to be taken simultaneously
Subjects that continue the syllabus
Other comments

<p&gt;Como trabajo fin de grado, sólo se podrá defender si se han superado todas las asignaturas del mismo.&lt;/p&gt;

(\*)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.