		Teaching	g Guide					
	2016/17							
Subject (*)	Construción 4			Code	630G02027			
Study programme	Grao en Estudos de Arquitectura			,	'			
		Descri	ptors					
Cycle	Cycle Period Year Type Credits							
Graduate	2nd four-month period	Thi	rd	Obligatoria	6			
Language	Spanish	Spanish						
Teaching method	Face-to-face							
Prerequisites								
Department	Construcións Arquitectónicas							
Coordinador	Rodriguez Cheda, Jose Benito E-ma			jose.benito.rodriguez.cheda@udc.es				
Lecturers	Rodriguez Cheda, Jose Benito	E-mail jose.benito.rodrigue:		riguez.cheda@udc.es				
	Rodriguez Garcia, Enrique		enrique.rodrigu	ez.garcia@udc.es				
Web				1				
General description								

	Study programme competences
Code	Study programme competences
A12	Ability to conceive, calculate, design, integrate in buildings and urban units and execute building structures (T)
A15	Ability to conceive, calculate, design, integrate in buildings and urban units and execute foundation solutions (T)
A17	Ability to apply technical and construction standards and regulations
A18	Ability to maintain building structures, foundations and civil works
A20	Ability to assess the construction works
A21	Ability to maintain the structural work
A25	Adequate knowledge of conventional construction systems and pathology
A26	Adequate knowledge of the physical and chemical characteristics, production procedures, pathology and use of building materials
A27	Adequate knowledge of industrialized building systems
A31	Knowledge of methods of measurement, assessment and expert's report
A32	Knowledge of the project of health and safety at the construction site
A63	Development, presentation and public review before a university jury of an original academic work individually elaborated and linked to any
	of the subjects previously studied
B1	Students have demonstrated knowledge and understanding in a field of study that is based on the general secondary education, and is
	usually at a level which, although it is supported by advanced textbooks, includes some aspects that imply knowledge of the forefront of
	their field of study
B2	Students can apply their knowledge to their work or vocation in a professional way and have competences that can be displayed by means
	of elaborating and sustaining arguments and solving problems in their field of study
В3	Students have the ability to gather and interpret relevant data (usually within their field of study) to inform judgements that include
	reflection on relevant social, scientific or ethical issues
В4	Students can communicate information, ideas, problems and solutions to both specialist and non-specialist public
B5	Students have developed those learning skills necessary to undertake further studies with a high level of autonomy
В6	Knowing the history and theories of architecture and the arts, technologies and human sciences related to architecture
В7	Knowing the role of the fine arts as a factor that influences the quality of architectural design
В9	Understanding the problems of the structural design, construction and engineering associated with building design and technical solutions
B10	Knowing the physical problems, various technologies and function of buildings so as to provide them with internal conditions of comfort
	and protection against the climate factors in the context of sustainable development
B11	"Knowing the industries, organizations, regulations and procedures involved in translating design concepts into buildings and
	integrating plans into planning "
B12	Understanding the relationship between people and buildings and between these and their environment, and the need to relate buildings
	and the spaces between them according to the needs and human scale

C1	Expressing themselves correctly, both orally and in writing, in the official languages of the autonomous region
C3	Using basic tools of information technology and communications (ICT) necessary for the exercise of the profession and for lifelong
	learning
C4	Exercising an open, educated, critical, committed, democratic and caring citizenship, being able to analyse facts, diagnose problems,
	formulate and implement solutions based on knowledge and solutions for the common good
C5	Understanding the importance of entrepreneurship and knowing the means available to the enterpreneur
C6	Critically evaluate the knowledge, technology and information available to solve the problems they must face
C7	Assuming as professionals and citizens the importance of learning throughout life
C8	Assessing the importance of research, innovation and technological development in the socio-economic advance of society and culture

Learning outcomes			
Learning outcomes	Study programme		
	competences		
	A12	B1	C1
	A15	B2	C3
	A17	В3	C4
	A18	B4	C5
	A20	B5	C6
	A21	B6	C7
	A25	В7	C8
	A26	B9	
	A27	B10	
	A31	B11	
	A32	B12	
	A63		
Capacitar al alumno para proyectar la construcción partiendo del planteamiento arquitectónico.	A12	B1	C1
	A15	B2	СЗ
Aportarle los conocimientos necesarios para que aprecie las repercusiones arquitectónicas de cada sistema constructivo y de	A17	В3	C4
cada material en el proyecto, tratando de encontrar el difícil equilibrio entre éste y su construcción.	A18	B4	C5
	A20	B5	C6
Iniciar al alumno en el desarrollo de documentos de proyecto que expresen el hecho arquitectónico junto con su construcción,	A21	В6	C7
dotándole de rigor, especificidad, coherencia y claridad en su expresión gráfica y escrita.	A25	В7	C8
	A26	В9	
Conocer los sistemas porticados en hormigón apoyándose en el estudio de edificios relevantes, utilizando para ello las clases	A27	B10	
prácticas. Se analizarán las prestaciones del sistema, las características de los elementos, las juntas y la disposición de las	A31	B11	
armaduras. Finalmente, se pasará a la concreción de especificaciones y al manejo de la normativa aplicable.	A32	B12	
	A63		
	A12	B1	C1
	A15	B2	СЗ
	A17	В3	C4
	A18	B4	C5
	A20	B5	C6
	A21	В6	C7
	A25	В7	C8
	A26	В9	
	A27	B10	
	A31	B11	
	A32	B12	
	A63		



A12 B1 C1 A15 B2 C3 A17 B3 C4 A18 B4 C5 A20 B5 C6 A21 B6 C7 A25 B7 C8 A26 B9 A27 B10 A11 B11 A32 B12 A63 A17 B3 C4 A18 B4 C5 A20 B5 C6 A21 B6 C7 A25 B7 C8 A26 B9 A27 B10 A11 B11 A22 B1 A21 B1 C1 A15 B2 C3 A17 B3 C4 A18 B4 C5 A20 B5 C6 A21 B6 C7 A25 B7 C8 A26 B9 A27 B10 A31 B11 A32 B12 A31 B11 A31 B11 A32 B12 A31 B11			
A17 B3 C4 A18 B4 C5 A20 B5 C6 A21 B6 C7 A25 B7 C8 A26 B9 A27 B10 A31 B11 A32 B12 A33 B12 A34 B4 C5 A26 A27 B10 A27 B10 A21 B1 C1 A15 B2 C3 A17 B3 C4 A18 B4 C5 A20 B5 C6 A21 B6 C7 A25 B7 C8 A26 B9 A27 B10 A31 B11 A32 B12 A33 B12 A45 B2 C3 A46 C5 A27 B10 A31 B31 C1 A45 B2 C3 A47 B3 C4 A48 B4 C5 A29 B5 C6 A21 B6 C7 A25 B7 C8 A26 B9 A27 B10 A31 B41 A32 B31 A32 B31 A33 B41 A34 B4 C5 A26 B9 A27 B10 A31 B11 A32 B10 A31 B11 A32 B11 A32 B11 A33 B11 A32 B11 A33 B11 A33 B11 A34 B44 A35 B47 A36 B47 A37 B10 A31 B11 A32 B11 A32 B11 A33 A34 B44 A35 A35 A36 B47 A37 B10 A31 B11 A32 A33 A34 A35 A35 A36 A37 A38 A38 A38 A48 A49 A40 A41 A41 A41 A42 A41 A42 A42 A43 A44 A45 A45 A46 A47 A48 A49 A40 A41 A41 A41 A41 A42 A41 A4	A12	B1	C1
A18 B4 C5 A20 B5 C6 A21 B6 C7 A25 B7 C8 A26 B9 A27 B10 A31 B11 A32 B12 A63 A17 B3 C4 A18 B4 C5 A20 B5 C6 A21 B6 C7 A25 B7 C8 A26 B9 A27 B10 A31 B11 A32 B12 A33 B12 A34 B1 A31 B1 A32 B12 A31 B1 A32 B12 A33 B12 A34 B1 A35 B10 A31 B1 A32 B12 A33 C4 A18 B4 C5 A20 B5 C6 A21 B2 C3 A31 B31 A32 B31 A33 C4 A34 B4 C5 A26 B9 A27 B10 A31 B6 C7 A26 B9 A27 B10 A31 B10 A31 B10 A32 B10 A33 B10 A34 B6 C7 A26 B9 A27 B10 A31 B10 A32 B10 A31 B10 A31 B10 A32 B10 A33 B10 A33 B10 A34 B10 A35 B10 A35 B10 A31 B10 A32 B10 A31 B10 A32 B10 A33 B10 A33 B10 A34 B10 A35 A35 A36 A37 A38 A38 A38 A38 A38 A38 A38 A47 A48 A48 A49 A40	A15	B2	C3
A20 B5 C6 A21 B6 C7 A25 B7 C8 A26 B9 A27 B10 A31 B11 A32 B12 A63 A17 B3 C4 A18 B4 C5 A20 B5 C6 A21 B6 C7 A25 B7 C8 A26 B9 A27 B10 A31 B11 A32 B12 A63 A17 B3 C4 A18 B4 C5 A26 B9 A27 B10 A31 B11 A32 B12 A63 A17 B3 C4 A18 B4 C5 A26 B9 A27 B10 A31 B11 A32 B12 A63 A17 B3 C4 A18 B4 C5 A26 B9 A27 B10 A31 B11 A32 B12 A63 A63 A77 B3 C4 A78 B10 A79 B10 A79 B10 A79 B10 A79 B10 A79 B10 A70 B70 C8 A70 B70 C8 A71 B70 C8 A71 B70 C8 A72 B70 C8 A73 B70 C8 A74 B70 C8 A75 B70 C8 A76 B70 C8 A77 B70 C8 A77 B70 C8 A78 B70	A17	В3	C4
A21 B6 C7 A25 B7 C8 A26 B9 A27 B10 A31 B11 A32 B12 A63 A12 B1 C1 A15 B2 C3 A17 B3 C4 A18 B4 C5 A20 B5 C6 A21 B6 C7 A25 B7 C8 A26 B9 A27 B10 A31 B11 A32 B12 A63 A12 B1 C1 A15 B2 C3 A17 B3 C4 A18 B4 C5 A20 B5 C6 A21 B6 C7 A25 B7 C8 A26 B9 A27 B10 A31 B11 A32 B12 A63 A12 B1 C1 A15 B2 C3 A17 B3 C4 A18 B4 C5 A20 B5 C6 A21 B6 C7 A25 B7 C8 A26 B9 A27 B10 A31 B11 A32 B10 A31 B11 A32 B10 A31 B11 A32 B10 A331 B11	A18	B4	C5
A25 B7 C8 A26 B9 A27 B10 A31 B11 A32 B12 A63 A12 B1 C1 A15 B2 C3 A17 B3 C4 A18 B4 C5 A20 B5 C6 A21 B6 C7 A25 B7 A26 B9 A27 B10 A31 B11 A32 B12 A63 A12 B1 C1 A34 B1 A34 B1 A35 B2 C3 A17 B3 C4 A18 B4 C5 A26 B9 A27 B10 A31 B11 A32 B12 A63 A12 B1 C1 A15 B2 C3 A17 B3 C4 A18 B4 C5 A20 B5 C6 A21 B6 C7 A25 B7 C8 A26 B9 A27 B10 A31 B11 A32 B12 A32 B32 A33 B33 C4 A34 B4 C5 A20 B5 C6 A21 B6 C7 A25 B7 C8 A26 B9 A27 B10 A31 B11 A32 B32	A20	B5	C6
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A27 B10 A31 B11 A32 B12 A63 B12 A63 B14 A15 B2 C3 A17 B3 C4 A18 B4 C5 A20 B5 C6 A21 B6 C7 A25 B7 C8 A26 B9 A27 B10 A31 B11 A32 B12 A63 A17 B3 C4 A18 B4 C5 C3 A17 B3 C4 A18 B4 C5 C3 A17 B3 C4 A18 B4 C5 A20 B5 C6 A21 B6 C7 A25 B7 C8 A26 B9 A27 B10 A31 B11 A32 A31 A32 A3	A25	В7	C8
A31 B11 A32 B12 A63 A63 A12 B1 C1 A15 B2 C3 A17 B3 C4 A18 B4 C5 A20 B5 C6 A21 B6 C7 A25 B7 C8 A26 B9 A27 B10 A31 B11 A32 B12 A63 A17 B3 C4 A18 B4 C5 A20 B5 C6 A21 B6 C7 A25 B7 C8 A26 B9 A27 B10 A31 B11 A32 B12 A63 A17 B3 C4 A18 B4 C5 A20 B5 C6 A21 B6 C7 A25 B7 C3 A17 B3 C4 A18 B4 C5 A20 B5 C6 A21 B6 C7 A25 B7 C8 A26 B9 A27 B10 A31 B11 A32 B12 A33 B13	A26	В9	
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A63 A12 B1 C1 A15 B2 C3 A17 B3 C4 A18 B4 C5 A20 B5 C6 A21 B6 C7 A25 B7 C8 A26 B9 A27 B10 A31 B11 A32 B12 A63 A17 B3 C4 A18 B4 C5 A20 B5 C6 A21 B6 C7 A25 B7 C8 A26 B9 A27 B10 A31 B11 A32 B10 A31 B11 A32 B10	A31	B11	
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A15 B2 C3 A17 B3 C4 A18 B4 C5 A20 B5 C6 A21 B6 C7 A25 B7 C8 A26 B9 A27 B10 A31 B11 A32 B12 A63 A17 B3 C4 A18 B4 C5 A20 B5 C6 A21 B6 C7 A25 B7 C8 A26 B9 A27 B10 A31 B41 A32 B2 C3 A17 B3 C4 A18 B4 C5 A20 B5 C6 A21 B6 C7 A25 B7 C8 A26 B9 A27 B10 A31 B11 A32 B12 A33 B3 C4 A44 B4 C5 A26 B9 A27 B10 A31 B11 A32 B12	A63		
A17 B3 C4 A18 B4 C5 A20 B5 C6 A21 B6 C7 A25 B7 C8 A26 B9 A27 B10 A31 B11 A32 B12 A63 A12 B1 C1 A15 B2 C3 A17 B3 C4 A18 B4 C5 A20 B5 C6 A21 B6 C7 A25 B7 C8 A26 B9 A27 B10 A31 B11 A32 B12 A33 B12 A34 B14 A35 B2 C3 A47 B3 C4 A48 B4 C5 A20 B5 C6 A21 B6 C7 A25 B7 C8 A26 B9 A27 B10 A31 B11 A32	A12	B1	C1
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A20 B5 C6 A21 B6 C7 A25 B7 C8 A26 B9 A27 B10 A31 B11 A32 B12 A63 A12 B1 C1 A15 B2 C3 A17 B3 C4 A18 B4 C5 A20 B5 C6 A21 B6 C7 A25 B7 C8 A26 B9 A27 B10 A31 B11 A32 B12 A33 B12 A34 B4 C5 A20 B5 C6 A21 B6 C7 A25 B7 C8 A26 B9 A27 B10 A31 B11 A32	A17	В3	C4
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A25 B7 C8 A26 B9 A27 B10 A31 B11 A32 B12 A63 A12 B1 C1 A15 B2 C3 A17 B3 C4 A18 B4 C5 A20 B5 C6 A21 B6 C7 A25 B7 C8 A26 B9 A27 B10 A31 B11 A32	A20	B5	C6
A26 B9 A27 B10 A31 B11 A32 B12 A63 A12 B1 C1 A15 B2 C3 A17 B3 C4 A18 B4 C5 A20 B5 C6 A21 B6 C7 A25 B7 C8 A26 B9 A27 B10 A31 B11 A32	A21	В6	C7
A27 B10 A31 B11 A32 B12 A63 A12 B1 C1 A15 B2 C3 A17 B3 C4 A18 B4 C5 A20 B5 C6 A21 B6 C7 A25 B7 C8 A26 B9 A27 B10 A31 B11 A32	A25	В7	C8
A31 B11 A32 B12 A63 A12 B1 C1 A15 B2 C3 A17 B3 C4 A18 B4 C5 A20 B5 C6 A21 B6 C7 A25 B7 C8 A26 B9 A27 B10 A31 B11 A32	A26	В9	
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A18 B4 C5 A20 B5 C6 A21 B6 C7 A25 B7 C8 A26 B9 A27 B10 A31 B11 A32	A15	B2	СЗ
A20 B5 C6 A21 B6 C7 A25 B7 C8 A26 B9 A27 B10 A31 B11 A32	A17	В3	C4
A21 B6 C7 A25 B7 C8 A26 B9 A27 B10 A31 B11 A32	A18	B4	C5
A25 B7 C8 A26 B9 A27 B10 A31 B11 A32	A20	B5	C6
A26 B9 A27 B10 A31 B11 A32	A21	B6	C7
A27 B10 A31 B11 A32	A25	B7	C8
A27 B10 A31 B11 A32	A26	В9	
A32		B10	
	A31	B11	

Contents					
Topic	Sub-topic				

		<u> </u>			
		Planning	J		
Methodologies / tests	Cor	npetencies	Ordinary class	Student?s personal	Total hours
			hours	work hours	
Guest lecture / keynote speech	A63 A32 A31 A27		30	21	51
	A26	A25 A21 A20			
	A18 A	17 A15 A12 B1			
	B2 B3	8 B4 B5 B6 B7			
	B9 B1	0 B11 B12 C1			
	C3 C4	C5 C6 C7 C8			
Supervised projects	A12	A63 A32 A31	30	39	69
	A27	A26 A25 A21			
	A20 A	18 A17 A15 B1			
	B2 B3	B B4 B5 B6 B7			
	B9 B1	0 B11 B12 C1			
	C3 C4	C5 C6 C7 C8			
Vorkbook	A63 /	A32 A31 A27	0	20	20
	A26	A25 A21 A20			
		17 A15 A12 B1			
	B2 B3	B B4 B5 B6 B7			
	B9 B1	0 B11 B12 C1			
		C5 C6 C7 C8			
Objective test	A63 /	A32 A31 A27	6	0	6
		A21 A20 A18			
		15 A12 B1 B2			
	D2 D4	DE DO DZ DO			

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

Personalized attention

B10 B11 B12 C1 C3 C4 C5 C6 C7 C8

Methodologies					
Methodologies	Description				
Guest lecture /					
keynote speech					
Supervised projects					



Workbook				
Objective test				
Objective test				
			Personalized attention	
Methodologies			Description	
Supervised projects			Description	
Objective test				
Objective test				
			Assessment	
Methodologies	Cor	npetencies	Description	Qualification
Supervised projects		A63 A32 A31	σοστιριίστ	70
Capervioca projecto		A26 A25 A21		10
		18 A17 A15 B1		
		B B4 B5 B6 B7		
		0 B11 B12 C1		
		C5 C6 C7 C8		
Guest lecture /		A32 A31 A27		0
keynote speech		A25 A21 A20		
		17 A15 A12 B1		
		B B4 B5 B6 B7		
		0 B11 B12 C1		
		C5 C6 C7 C8		
Workbook		A32 A31 A27		0
	A26 /	A25 A21 A20		
A18 A17 A15 A12 B1 B2 B3 B4 B5 B6 B7		17 A15 A12 B1		
		8 B4 B5 B6 B7		
	B9 B1	0 B11 B12 C1		
	C3 C4	C5 C6 C7 C8		
Objective test	A63 /	A32 A31 A27		30
	A25 /	A21 A20 A18		
	A17 A	15 A12 B1 B2		
	B3 B4	B5 B6 B7 B9		
	B10 B	11 B12 C1 C3		
	C4 C	5 C6 C7 C8		
			Assessment comments	
			Sources of information	
Basic				
Complementary				
			Recommendations	
		S	Subjects that it is recommended to have taken before	

Architectural Projects 1/630G01001

Architectural Projects 2/630G01006

Physics 1/630G01008

Construction 1/630G01010

Proxectos 3/630G01011

Física 2/630G01013

Proxectos 4/630G01016

Estruturas 1/630G01019

Construción 2/630G01020

Proxectos 5/630G01021

Construción 3/630G01022

Estruturas 2/630G01023

Construción 4/630G01027

Instalacións 1/630G01030

Subjects that are recommended to be taken simultaneously

Proxectos 7/630G01031

Instalacións 2/630G01039

Subjects that continue the syllabus

Construción 6/630G01037

Other comments

<p>La docencia a alumnos de programas de movilidad se adaptará a condiciones pedagógicas y de trabajos tutelados especiales, así como las pruebas y exámenes de evaluación.&nbsp; </p>

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