UNIVERSIDADE DA CORUÑA

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

Study programme competences / results	
Code	Study programme competences / results
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
B3	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
B4	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
B6	Knowing the history and theories of architecture and the arts, technologies and human sciences related to architecture
B7	Knowing the role of the fine arts as a factor that influences the quality of architectural design
B9	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 / results		
	A12 A15 A17 A18 A20 A21 A25 A26 A27 A31 A32 A63	B1 B2 B3 B4 B5 B6 B7 B9 B10 B11 B12	C1 C3 C4 C5 C6 C7 C8
Capacitar al alumno para proyectar la construcción partiendo del planteamiento arquitectónico. Aportarle los conocimientos necesarios para que aprecie las repercusiones arquitectónicas de cada sistema constructivo y de cada material en el proyecto, tratando de encontrar el difícil equilibrio entre éste y su construcción. Iniciar al alumno en el desarrollo de documentos de proyecto que expresen el hecho arquitectónico junto con su construcción, dotándole de rigor, especificidad, coherencia y claridad en su expresión gráfica y escrita. Conocer los sistemas porticados en hormigón apoyándose en el estudio de edificios relevantes, utilizando para ello las clases prácticas. Se analizarán las prestaciones del sistema, las características de los elementos, las juntas y la disposición de las armaduras. Finalmente, se pasará a la concreción de especificaciones y al manejo de la normativa aplicable.	A12 A15 A17 A18 A20 A21 A25 A26 A27 A31 A32 A63	B1 B2 B3 B4 B5 B6 B7 B9 B10 B11 B12	C1 C3 C4 C5 C6 C7 C8
	A12 A15 A17 A18 A20 A21 A25 A26 A27 A31 A32 A63	B1 B2 B3 B4 B5 B6 B7 B9 B10 B11 B12	C1 C3 C4 C5 C6 C7 C8

	A12 A15 A17 A18 A20 A21 A25 A26 A27 A31 A32 A63	B1 B2 B3 B4 B5 B6 B7 B9 B10 B11 B12	C1 C3 C4 C5 C6 C7 C8
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Contents	
Topic	Sub-topic

Planning				
Methodologies / tests	Competencies / Results	Teaching hours (in-person & virtual)	Student?s personal work hours	Total hours
Guest lecture / keynote speech	A63 A32 A31 A27 A26 A25 A21 A20 A18 A17 A15 A12 B1 B2 B3 B4 B5 B6 B7 B9 B10 B11 B12 C1 C3 C4 C5 C6 C7 C8	30	21	51
Supervised projects	A12 A63 A32 A31 A27 A26 A25 A21 A20 A18 A17 A15 B1 B2 B3 B4 B5 B6 B7 B9 B10 B11 B12 C1 C3 C4 C5 C6 C7 C8	30	39	69
Workbook	A63 A32 A31 A27 A26 A25 A21 A20 A18 A17 A15 A12 B1 B2 B3 B4 B5 B6 B7 B9 B10 B11 B12 C1 C3 C4 C5 C6 C7 C8	0	20	20
Objective test	A63 A32 A31 A27 A25 A21 A20 A18 A17 A15 A12 B1 B2 B3 B4 B5 B6 B7 B9 B10 B11 B12 C1 C3 C4 C5 C6 C7 C8	6	0	6
Personalized attention		4	0	4
(*)The information in the planning table is for guidance only and does not take into account the heterogeneity of the students.				

Methodologies	
Methodologies	Description
Guest lecture / keynote speech	
Supervised projects	

Workbook	
Objective test	

Personalized attention	
Methodologies	**Description**
Supervised projects Objective test	

Assessment			
Methodologies	**Competencies / Results**	**Description**	**Qualification**
Supervised projects	A12 A63 A32 A31 A27 A26 A25 A21 A20 A18 A17 A15 B1 B2 B3 B4 B5 B6 B7 B9 B10 B11 B12 C1 C3 C4 C5 C6 C7 C8		70
Guest lecture / keynote speech	A63 A32 A31 A27 A26 A25 A21 A20 A18 A17 A15 A12 B1 B2 B3 B4 B5 B6 B7 B9 B10 B11 B12 C1 C3 C4 C5 C6 C7 C8		0
Workbook	A63 A32 A31 A27 A26 A25 A21 A20 A18 A17 A15 A12 B1 B2 B3 B4 B5 B6 B7 B9 B10 B11 B12 C1 C3 C4 C5 C6 C7 C8		0
Objective test	A63 A32 A31 A27 A25 A21 A20 A18 A17 A15 A12 B1 B2 B3 B4 B5 B6 B7 B9 B10 B11 B12 C1 C3 C4 C5 C6 C7 C8		30

Assessment comments

Sources of information	
Basic	
Complementary	

Recommendations
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
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.

(*)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.