



Teaching Guide				
Identifying Data				2022/23
Subject (*)	Architectural Design 9	Code	630G02041	
Study programme	Grao en Estudos de Arquitectura			
Descriptors				
Cycle	Period	Year	Type	Credits
Graduate	2nd four-month period	Fifth	Obligatory	9
Language	SpanishGalician			
Teaching method	Face-to-face			
Prerequisites				
Department	Proxectos Arquitectónicos, Urbanismo e Composición			
Coordinador	Sabin Díaz, Patricia	E-mail	patricia.sabin@udc.es	
Lecturers	Irisarri Castro, Jesús Penela Fernández, Alfonso Carlos Piñera Manso, Guadalupe Sabin Díaz, Patricia	E-mail	j.irisarri@udc.es alfonso.penela@udc.es g.pinera.manso@udc.es patricia.sabin@udc.es	
Web				
General description	The basic objective on which the subject is based is the development of projects in a complex urban environment, appropriately satisfying the compositional, spatial, technical and functional requirements of architectural and urban design. The decisions of a general nature and design of architectural pieces will be verified and related.			

Study programme competences	
Code	Study programme competences
A34	Ability to design, implement and develop sketches and drafts, concept designs, developed designs and technical designs (T)
A35	Ability to design, implement and develop urban projects (T)
A36	Ability to design, implement and develop construction management (T)
A37	Ability to develop functional programs for buildings and urban spaces (T)
A38	&quot;Ability to take part in the preservation, restoration and renovation of the built heritage (T) &quot;
A41	Ability to solve the passive environmental conditioning, including thermal and acoustic insulation, climate control, energy efficiency and natural lighting (T)
A43	Ability to carry out safety projects, evacuation and protection in buildings (T)
A44	Ability to develop civil work projects (T)
A45	Ability to design and execute urban layouts and urbanization, gardening and landscape design projects (T)
A46	Ability to apply standards and urban regulations
A47	Ability to develop environmental, landscape and environmental impact correction studies (T)
A52	&quot;Adequate knowledge of ecology, sustainability and the principles of conservation of energy and environmental resources. &quot;
A53	Adequate knowledge of the architectural, urban and landscape traditions of Western culture, as well as their technical, climatic, economic, social and ideological foundations.
A58	Adequate knowledge of the methodological foundations of territorial, metropolitan and urban planning.
A60	Knowledge of the legal framework in terms of civil laws, administration, planning, construction and building industry according to the professional practice
A61	Knowledge of feasibility analysis and the surveillance and coordination of integrated projects
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
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
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	Adequate oral and written expression in the official languages.
C3	Using ICT in working contexts and 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 entrepreneurial culture and the useful means for enterprising people.
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	Valuing the importance of research, innovation and technological development for the socioeconomic and cultural progress of society.

Learning outcomes			
Learning outcomes	Study programme competences		
Ability to address new facilities within the neighborhood and urban sector scale, developing the programs of needs appropriate to each situation	A37 A38 A44 A52 A53 A58 A61	B2 B3 B4 B5 B12	C1 C3 C8
Ability to give an objectual and contextual architectural response to new urban facilities, incorporating the perspective of gender and accessibility as the foundations of sustainability.	A34 A35 A36 A38 A41 A43 A44 A45 A46 A47 A52 A53 A60 A63	B2 B4 B5 B9 B10 B11 B12	C1 C3
Ability to study and critically analyze architectural projects and projects as a means of knowledge and continuous training, in relation to the aspects of the program of needs, functional, technical and symbolic resolution. The physical and temporal context of the case studies will have to be considered, and they will be related to the contemporary parameters of sustainability, gender perspective and biophilia.	A63	B2 B3 B4 B5 B12	C4 C5 C6 C7 C8

Contents	
Topic	Sub-topic



O deseño sostible	-Environmental and social impact of architectural and urban interventions -Materials advanced vs traditional materials -Reduce, reuse and recycle: applications in the formulation of needs programs and architectural and urban design - The new conceptual tools of analysis and transformation of reality: gender perspective, sustainability, biophilia
Novos programas e escalas complexas	-Equipamiento vs infraestructura -El concepto de infraestructura para la vida cotidiana -Nuevas tecnologías: aplicación en el hábitat
Estudo e análise crítica de proxectos arquitectónicos: a vida na cidade.	-Study of cases 1. The residential project in the consolidated city. -Study of cases 2. Projects for care and conciliation in the city. -Study of cases 3. The equipments of the urban scale.

Planning				
Methodologies / tests	Competencies	Ordinary class hours	Student?s personal work hours	Total hours
Guest lecture / keynote speech	A52 A53 A58 A60 A61 B9 B10 B11 B12 C3 C5 C6 C8	10	10	20
Workshop	A34 A35 A36 A37 A38 A41 A43 A44 A45 A46 A47 A63 B2 B4 B5 C1	73	109.5	182.5
Events academic / information	A34 A35 B2 B3 B4 B5 C1 C3 C4 C7 C8	2.5	0	2.5
Case study	B3 C4 C7	9.5	9.5	19
Personalized attention		1	0	1

(\*)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	Oral presentation to introduce the references and theoretical contributions in relation to the exercises.
Workshop	Training modality inherent in the objectual, contextual and urban architectural project, which consists of classroom and non-contact hours It includes practical work, individual or group, individual and collective critical sessions, sharing, debates and comments, and preparation of works that develop case studies. In the classroom hours the students will develop the project work with the support and supervision of the teaching staff. In the non-contact hours will be completed and progress in the resolution of the exercises raised from personal work and deepening comments and observations made in the classroom.
Events academic / information	Preparation of synthesis material of the work carried out in the matter for a joint exhibition at the end of the course in the event organized by the Department of Architectural Projects, Urban Planning and Composition: ?Arquitecturas en Curso. DPAUC? (panels, models, drawings, videos, texts, performances, etc.)  Attendance at informative events (congresses, conferences, symposiums, conferences, etc.), organized by the ETSAC or DPAUC, etc., indicated by the teaching staff of the subject as part of the current teaching content, with the aim of providing students with knowledge and experiences current references to a given field of study.
Case study	Study and critical analysis of case studies of types 1, 2 or 3 indicated in the contents.

Personalized attention
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Methodologies	Description
Workshop	<p>Individual attention or student for the correction of each project. Corrections will be made individually for each student according to the peculiarities of their project and collectively for the confrontation of the different project options that are developed by the students.</p> <p>Both personalized attention and/or in work groups will be developed in class, in tutorials (to be requested by the students)</p>

Assessment			
Methodologies	Competencies	Description	Qualification
Case study	B3 C4 C7	<p>Study of a work or a project based on the search for information from different documentary sources, both graphic and written. Treatment of data, preparation of the study and conclusions.</p> <p>The rigor of the content and the quality of the graphic expression will be assessed.</p> <p>The work must be publicly exposed by means of a limited time in the different stages of preparation.</p> <p>Work developed individually.</p>	25
Workshop	A34 A35 A36 A37 A38 A41 A43 A44 A45 A46 A47 A63 B2 B4 B5 C1	<p>Development of the works varying from preliminary level to basic level, as indicated in each case.</p> <p>All the works developed must be publicly exposed by means of a limited time in the different stages of preparation.</p> <p>They can be developed in groups (two people) or individually, according to specific indications of each specific work.</p>	75

Assessment comments



- June opportunity: To obtain the qualification of suitable, the delivery of all the workshop exercises and case studies is required, as well as participation in their public exposition. Public exhibitions of the work in progress will be regularly scheduled. To obtain the qualification of apt it will be necessary to attend all of these sessions. Those students who choose a grade will make a presentation to the subject teachers, in which the exercise will be discussed with the student.

- July opportunity: The work carried out throughout the course will be reviewed or completed, correcting the detected deficiencies. The suitable without development is not contemplated according to the level specified in each case of the set of works proposed in the workshop and in the case study.

- It is a necessary condition to pass the subject to meet a minimum attendance of 80%

To be eligible for the evaluation in advance call, general evaluation conditions in a previous course must be completed.

Students with recognition of part-time dedication and academic waiver of attendance exemption: In these cases, as long as they have official recognition from the center's management, the minimum attendance requirement will not be required, keeping the rest of the general requirements established .

Plagiarism: With regard to plagiarism, it'll rule the Article 14 of the Standards for evaluation, review and claim of qualifications for undergraduate and graduate studies at the UDC will be addressed.

-Preparation of synthesis material

of the work carried out in the matter for a joint exhibition at the end of the course in the event organized by the Department of Architectural Projects, Urban Planning and Composition: ?Arquitecturas en Curso. DPAUC? (panels, models, drawings, videos, texts, performances, etc.)

-Attendance

at informative events (congresses, conferences, symposiums, conferences, etc.), organized by the ETSAC or DPAUC, etc., indicated by the teaching staff of the subject as part of the current teaching content, with the aim of providing students with knowledge and experiences current references to a given field of study.

## Sources of information



<p><b>Basic</b></p>	<p>_Alexander, Christopher et alt. Un lenguaje de patrones. Barcelona: Gustavo Gili, 1980. _Apodaka Ostaiakoetxea, Marije (coord.). Urbanismo inclusivo. Las calles tienen género. Vitoria: Servicio Central de Publicaciones del Gobierno Vasco, 2012. _Ashihara, Yoshinobu. El diseño de espacios exteriores. Barcelona: Gustavo Gili, 1982. _Berrizbeitia, Anita; Pollak, Linda. Inside outside, between architecture and landscape. _Bofill Levi, Anna. Guia per al planejament urbanistic i l'ordenació urbanística amb la incorporació de criterios de género. Barcelona: Generalitat de Catalunya, 2008. Gloucester, (Massachussets): Rockport, 2003. _Cano, G. y Maestre, J.M. Tecnología y sociedad: ¿Por qué no llega el hogar digital? Informes de la Construcción, vol. 67, 538 (2015). _Carreiro Otero, María y Cándido López González. Parametrizar y sistematizar o cómo incorporar la perspectiva de género en el urbanismo. ; Cervero Sánchez, N. y Hernández, Agustín. Remodelación, Transformación y Rehabilitación. Tres formas de intervenir en la vivienda social del siglo XX. Informes de la Construcción, vol. 67 (EXTRA-1): mo26 (2015). _COAC, Collegi d'Arquitectes de Catalunya (1990): Vivienda y ciudad. Concurso Internacional de Proyectos. Barcelona: COAC. _Eleb-Vidal, Monique et al. (1988): Penser l'habité, le logement en question. Lieja: Pierre Mordaga. Fernández, Roberto. ¿Modos de hacer ciudad: proyecto y plan?, en Ciudades 3 (1996): 111-127. GALLARDO, Laura. ¿Del no-lugar al lugar en el proyecto arquitectónico?. AUS (Valdivia) 14 (2013): pp. 5-10. _Gehl, Jan. La humanización del espacio urbano. Barcelona: Reverté, 2006. _Lion, Yves y François Leclercq (1985): ¿Domus Demain, la Bande Active?. L'architecture d'Aujourd'hui 252: 16-20. _López Candeira, José A. Tratamiento del espacio exterior. Madrid: Munilla-Leria, 2002. _López González, Cándido y María Carreiro Otero /eds. La casa. Piezas, ensambles y estrategias. Málaga: Recolectores Urbanos, 2016. _Lyndon, Donlyn. The Sea Ranch. New York: Princeton Architectural Press, 2004. _Marín Acosta, Flor Inés. ¿La arquitectura escolar del estructuralismo holandés en la obra de Herman Hertzberger y Aldo van Eyck?, en Revista de Educación y Pedagogía (21) 54 (2009): 67-80. _Moore, Charles et al. La casa: forma y diseño. Barcelona: Gustavo Gili, 1976. _Paricio, Ignacio y Xavier Sust (1998): La vivienda contemporánea. Programa y tecnología. Barcelona: Institut de Tecnologia de la Construcció de Catalunya, ItEC. _Sánchez de Madariaga, Inés. Urbanismo con perspectiva de género. Sevilla: Instituto Andaluz de la Mujer. Junta de Andalucía. _Sánchez de Madariaga, Inés. ¿Infraestructuras para la vida cotidiana y la calidad de vida?. Valladolid: Ciudades: Revista del Instituto Universitario de Urbanística de la Universidad de Valladolid, 8 (2004): pp. 101-133. _Tejedor, J. 2015. Nuevo paradigma normativo sobre la ciudad: Retronando a la ciudad tradicional. Informes de la Construcción, 67 (EXTRA-1): mo22. _Zoppi, Mariella. Progettare con il verde. 2. Vuoti Urbani. 3ª reimp. Firenze: Alinea, 1997. _Sobre puntos limpos: <a href="https://www2.uned.es/biblioteca/rsu/pagina3.htm">https://www2.uned.es/biblioteca/rsu/pagina3.htm</a> <a href="http://economiecirculaire.org/DOCUMENTACION/Publicaciones/Multiparticpantes/20151209_EB3_Analisis%20para%20la%20optimizaci%C3%B3n%20de%20los%20puntos%20limpios.pdf">http://economiecirculaire.org/DOCUMENTACION/Publicaciones/Multiparticpantes/20151209_EB3_Analisis%20para%20la%20optimizaci%C3%B3n%20de%20los%20puntos%20limpios.pdf</a> <a href="http://residus.gencat.cat/es/ambits_dactuacio/valoritzacio_reciclatge/instal_lacions_de_gestio/deixalleries/caracteristiques_de_les_deixalleries/">http://residus.gencat.cat/es/ambits_dactuacio/valoritzacio_reciclatge/instal_lacions_de_gestio/deixalleries/caracteristiques_de_les_deixalleries/</a> <a href="http://www.madrid.org/cs/Satellite?blobcol=urldata&amp;blobheader=application%2Fpdf&amp;blobheadername1=Content-Disposition&amp;blobheadervalue1=filename%3DTipos+de+Puntos+Limpios-39680.pdf&amp;blobkey=id&amp;blobtable=MungoBlobs&amp;blobwhere=1310630261610&amp;ssbinary=true">http://www.madrid.org/cs/Satellite?blobcol=urldata&amp;blobheader=application%2Fpdf&amp;blobheadername1=Content-Disposition&amp;blobheadervalue1=filename%3DTipos+de+Puntos+Limpios-39680.pdf&amp;blobkey=id&amp;blobtable=MungoBlobs&amp;blobwhere=1310630261610&amp;ssbinary=true</a> <a href="http://www.mapama.gob.es/es/calidad-y-evaluacion-ambiental/temas/prevencion-y-gestion-residuos/flujos/domesticos/gestion/sistema-recogida/Puntos-limpios.aspx">http://www.mapama.gob.es/es/calidad-y-evaluacion-ambiental/temas/prevencion-y-gestion-residuos/flujos/domesticos/gestion/sistema-recogida/Puntos-limpios.aspx</a> Sobre pavimentos: <a href="http://www.atlantiscorp.com.au">www.atlantiscorp.com.au</a> <a href="http://www.pvt.es">www.pvt.es</a> <a href="http://www.grupoentorno.es/aripaq/web/producto.php">www.grupoentorno.es/aripaq/web/producto.php</a> <a href="http://www.construmatica.com/construpedia/Pavimentos_Ecol%C3%B3gicos">www.construmatica.com/construpedia/Pavimentos_Ecol%C3%B3gicos</a> <a href="http://www.ecoralia.com">www.ecoralia.com</a></p>
<p><b>Complementary</b></p>	<p>_Molino, Sergio del. La España vacía. Turner, 2016. _Sennett, Richard. ¿El confesor, el limosnero y el jardinero? en Sennett, Richard. Carne y piedra. El cuerpo y la ciudad en la civilización occidental. Madrid: Alianza Editorial, 1994, pp. 194-197.</p>

**Recommendations**

Subjects that it is recommended to have taken before



Architectural Design 8/630G02036

Construction 6/630G02037

Construction 7/630G02045

Territorial Planning/630G02057

Urbanism 5/630G02042

Subjects that are recommended to be taken simultaneously

Subjects that continue the syllabus

Other comments

(\*)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.