

		Teaching Guide				
	Identifying	Data			2024/25	
Subject (*)	Industrial Design			Code	630G02054	
Study programme	Grao en Estudos de Arquitectura			I		
	-	Descriptors				
Cycle	Period	Year		Туре	Credits	
Graduate	2nd four-month period	Fifth		Optional	6	
Language	SpanishGalicianEnglish					
Teaching method	Face-to-face					
Prerequisites						
Department	Proxectos Arquitectónicos e Urbani	smoProxectos Arquite	ctónicos, L	Jrbanismo e Compo	sición	
Coordinador	Martinez Raído, Jose Luis	E	E-mail	jose.luis.martin	ez.raido@udc.es	
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Web						
General description	The object of the course is to introd	uce the student to the	traditional	link between the arc	hitect and industrial design. The	
	subject is close to the discipline of i	ndustrial design and a	rchitectura	l figures who have d	eveloped a relevant professional	
	activity within this field. The theoretical contents of the subject support the practices of industrial design of objects. It deals					
	with the history of furniture; the material in the design process (wood, glass, steel); solutions with assemblies, screws and					
	gluing; ergonomics in design.					

	Study programme competences / results
Code	Study programme competences / results
A1	"Ability to apply graphical procedures to the representation of spaces and objects (T) "
A2	Ability to conceive and represent the visual attributes of objects and master proportion and drawing techniques, including digital ones (T)
A3	Knowledge of spatial representation systems and projections adapted and applied to architecture
A4	Knowledge of the analysis and the theory of form and the laws of visual perception adapted and applied to architecture and urbanism
A17	Ability to apply technical and construction standards and regulations
A26	Adequate knowledge of the physical and chemical characteristics, production procedures, pathology and use of building materials
A27	Adequate knowledge of industrialized building systems
A30	Knowledge of the organization of professional offices
A34	Ability to design, implement and develop sketches and drafts, concept designs, developed designs and technical designs (T)
A36	Ability to design, implement and develop construction management (T)
A39	Ability to remove architectural barriers (T)
A40	Ability to practise architectural criticism
A48	Adequate knowledge of general theories of form, composition and architectural types
A49	Adequate knowledge of the general history of architecture
A50	Adequate knowledge of the methods of studying the processes of symbolization, practical functions and ergonomics
A51	Adequate knowledge of the methods of studying the social requirements, living conditions, habitability and basic housing programmes
A52	"Adequate knowledge of ecology, sustainability and the principles of conservation of energy and environmental resources. "
A53	Adequate knowledge of the architectural, urban and landscape traditions of Western culture, as well as their technical, climatic, economic,
	social and ideological foundationsxicos.
A54	Adequate knowledge of aesthetics and theory and history of fine arts and applied arts
A55	Adequate knowledge of the relationship between cultural patterns and social responsibilities of the architect
A61	Knowledge of feasibility analysis and the surveillance and coordination of integrated projects
A67	Coñecemento avanzado de aspectos específicos da materia de Proxectos no contemplados expresamente na Orde EDU/2075/2010
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
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		
	con	npetend	es/	
		results		
Knowing the history of design	A53	B1	C3	
	A54	B2	C4	
	A55	B3	C5	
	A67	B4	C6	
		B5	C7	
		B6	C8	
		B7		
Knowing the history of furniture design	A53	B1	C3	
	A54	B2	C4	
	A55	B3	C5	
	A67	B4	C6	
		B5	C7	
		B6	C8	
		B7		
Knowing the scale of objects	A1	B1	C6	
	A2	B2	C8	
	A3	B3		
	A48	B5		
	A50			
	A67			



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Consider scale of objects in design	A1	B2	
	A2	B3	
	A4		
	A26		
	A50		
	A67		
Knowing physical characteristics of materials used in the production of objects	A26		
	A27		
Knowing and applying characteristics of screws, joints and assemblies	A17	B1	C6
	A26	B2	C8
	A27	B3	
	A67	B4	
		B5	
Being able to modify the design of industrially produced objects	A1	B1	C1
	A2	B2	C3
	A3	B3	C4
	A4	B4	C5
	A26	B12	C6
	A27		C7
	A40		C8
	A48		
	A50		
	A54		
	A55		
	A67		
Being able to design industrially producible objects	A1	B2	C1
	A2	B3	C3
	A3	B4	C4
	A4	B5	C5
	A17	B12	C6
	A26		C7
	A27		C8
	A34		
	A48		
	A67		
Applying ergonomics to object design	A39	B2	C3
	A50	B3	C6
	A51	B4	C7
	A67	B5	C8
		B12	
Knowing manufacturing processes	A26	B2	C4
	A27	B3	C5
	A30	B4	C6
	A34	B5	C7
	A36		C8
			1
	A52		
	A52 A61		



Adaptation of design to manufacturing processes	A26	B2	C4
Adaptation of design to manufacturing processes	A20	B3	C4 C5
	A30	B3	C6
	A50	B4 B5	C7
	A35 A61	- D0	C7 C8
Cooperate in industrial design teams	A01	B2	C8
	A30	B2 B3	C3
	A67	вз В4	C3 C4
	AO7	Б4 В11	C4 C5
		B12	
		BIZ	C6 C8
Linderstanding the appial function of design and its useful appa		B2	C8
Understanding the social function of design and its usefulness	A48	B2 B3	
	A50		C8
	A51	B4	
	A53	B5	
	A54	B6	
	A55	B7	
Making a review on industrial design products	A40	B2	C3
	A48	B3	C4
	A49	B4	C5
	A54	B5	C6
	A55		C7
			C8
Relating the industrial design with the architectural space	A26	B2	C4
	A27	B3	C6
	A34	B4	C7
	A39	B5	C8
	A48	B12	
	A49		
	A50		
	A51		
	A54		
Become familiar with the design and its qualities intuitively	A34	B2	C4
	A36	B3	C8
	A40	B7	
	A48		
	A50		
	A53		
	A54		

	Contents
Торіс	Sub-topic
History of furniture.	varieties of solutions
History of industrial design.	
The material in the design process.	
Wood, glass, steel.	
Solutions with assemblies, screww and glued assemblies.	
The space of architecture and small objects.	
Ergonomics in the use of design.	



	Planning	g		
Methodologies / tests	Competencies /	Teaching hours	Student?s personal	Total hours
	Results	(in-person & virtual)	work hours	
Directed discussion	A1 A2 A3 A4 A34 A36	50	0	50
	A39 A40 A48 A53			
	A54 A55 A61 A67 B1			
	B2 B3 B5 B6 B7 C1			
	C3 C4 C7			
Guest lecture / keynote speech	A17 A26 A27 A30	25	50	75
	A49 A50 A51 A52			
	A53 A54 A55 B6 B7			
	B12 C5 C6 C7 C8			
Mixed objective/subjective test	A53 A54 A55 B2 B3	2	6	8
	B4 B5 B6 B7 B12 C3			
Events academic / information	A1 A2 A3 A4 A34 A40	2	4	6
	A48 A54 A55 B2 B3			
	B4 B7 C1 C3 C8			
Field trip	A27 A30 B3 B4 B11	6	0	6
	C5 C6 C7 C8			
Personalized attention		5	0	5

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

	Methodologies
Methodologies	Description
Directed discussion	Coursework correction.
Guest lecture /	Lecture / exposure about the different topics of the course program with the support of image projection.
keynote speech	
Mixed	Theory and practice
objective/subjective	
test	
Events academic /	Elaboration of synthesis material about the work done in the subject for taking part on the event exibition event organized by
information	the Department of Architectural Design, Urbanism and Composition: "Architectures in Progress. DPAUC" (panels,
	models, drawings, videos, texts, etc.).
	Attendance to informative events (congresses, lectures, symposia, conferences, etc.), organized by the ETSAC, the DPAUC,
	etc., indicated by the teachers of the subject as part of the teaching content of the course, with the aim of providing students
	with current knowledge and experiences, relating to a particular study field of the subject.
Field trip	Visits to wood and metal carpentry companies, etc.

Personalized attention			
Methodologies	Description		
Directed discussion	Face-to-face work.		
Guest lecture /			
keynote speech			
Field trip			
Mixed			
objective/subjective			
test			
Events academic /			
information			



		Assessment	
Methodologies Competencies / Description		Description	Qualification
	Results		
Directed discussion	A1 A2 A3 A4 A34 A36	Progress and evolution of the proposals are scored as well as the occupation that is	40
	A39 A40 A48 A53	being acquired.	
	A54 A55 A61 A67 B1		
	B2 B3 B5 B6 B7 C1		
	C3 C4 C7		
Mixed	A53 A54 A55 B2 B3	Personalized learning is analyzed, evaluating the final work presented and the	60
objective/subjective	B4 B5 B6 B7 B12 C3	face-to-face test, making up a total of 60% of the grade in the score. The final work will	
test		represent 40% and the face-to-face test will represent 20%, adding between the two	
		the total of 60%.	
Others			

Assessment comments

The final mark is set when evaluating the final work. At the end of the course the student has a certain capacity that must be satisfactory. The evaluation criteria for both, the first and the second opportunity, includes:

- 40% of the grade marks the progress and evolution of the proposals, as well as the skill that is acquired through participation in the guided discussion;

- 60% of the grade depends on the mixed test, where 40% assesses the final work of the course and 20% the exam at classroom. Whether attending the first or the second opportunity, for the qualification corresponding to the participation and evolution in the directed discussion (reviews in class), it is necessary that the student attends and participates regularly in the classes, being considered as such a minimum of 80% attendance.

Sources of information

Basic	2100 metal tubular chairs : a typology by Mácel, OtakarRotterdam : Van Hezik-Fonds 90, [2006]Ideología y utopía del
	diseño Contribución a la teoría del diseño industrial Selle, Gert.Barcelona : Gustavo Gili, 1975El diseño industrial y su
	estética Dorfles, Gillo.Barcelona : Labor, 19776. Aulas/talleresSidi (1984-1988) Sidi, cinco años de diseño Ambrós i
	Monsonis, Jordi.Barcelona : Aram, D.L. 1989Historia del diseño industrial Torrent, Rosalía.Madrid : Cátedra,
	2005Objects of Design from The Museum of Modern Art Antonelli, Paola.New York : The Museum of Modern Art,
	[2003]Charles Rennie Mackintosh the complete furniture. Furniture drawings & amp; interior designs Billcliffe,
	Roger.Guildford : Lutterworth Press, 1979The furniture of Charles and Ray Eames Weil am Rhein : Vitra ,
	[2007]Scandinavian design Watabe, Chiharu.Tokyo : Petit Grand Publishing, [2003-2004]Breve historia del mueble
	Lucie-Smith, Edward.Barcelona : Destino, 1998Historia del mueble Feduchi, Luis.Barcelona : Blume, [1975]Manual de
	sistemas de unión y ensamble de materiales Caridad Obregón, Francisco Antonio.México : Trillas, 1986

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	
certain fondness for the design of furniture and objects related to architecture is recommended.	



(*)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.