



## Teaching Guide

| Teaching Guide      |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |        |                                 |           |
|---------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------|---------------------------------|-----------|
| Identifying Data    |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |        |                                 | 2020/21   |
| Subject (*)         | Industrial Design                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |        | Code                            | 630G02054 |
| Study programme     | Grao en Estudos de Arquitectura                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |        |                                 |           |
| Descriptors         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |        |                                 |           |
| Cycle               | Period                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | Year   | Type                            | Credits   |
| Graduate            | 2nd four-month period                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | Fifth  | Optional                        | 6         |
| Language            | Spanish                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |        |                                 |           |
| Teaching method     | Face-to-face                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |        |                                 |           |
| Prerequisites       |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |        |                                 |           |
| Department          | Proxectos Arquitectónicos e UrbanismoProxectos Arquitectónicos, Urbanismo e Composición                                                                                                                                                                                                                                                                                                                                                                                                                             |        |                                 |           |
| Coordinador         | Vidal Pérez, Francisco José                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | E-mail | francisco.vidal@udc.es          |           |
| Lecturers           | Martinez Raído, Jose Luis                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | E-mail | jose.luis.martinez.raido@udc.es |           |
|                     | Vidal Pérez, Francisco José                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |        | francisco.vidal@udc.es          |           |
| Web                 |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |        |                                 |           |
| General description | O obxectivo do curso é introducir ao alumno no vínculo tradicional entre o arquitecto e o deseño industrial. O curso achégase á disciplina do deseño industrial e a figuras de arquitectos que desenvolveron unha actividade profesional relevante neste campo. Os contidos teóricos da materia apoian as prácticas de deseño industrial de obxectos. Coméntase a historia do moble; o material no proceso de deseño (madeira, vidro, aceiro); solucións con ensambles, parafusos e encolados; ergonomía no deseño. |        |                                 |           |
| Contingency plan    | 1. Modifications to the contents<br><br>2. Methodologies<br>*Teaching methodologies that are maintained<br><br>*Teaching methodologies that are modified<br><br>3. Mechanisms for personalized attention to students<br><br>4. Modifications in the evaluation<br><br>*Evaluation observations:<br><br>5. Modifications to the bibliography or webgraphy                                                                                                                                                            |        |                                 |           |

## Study programme competences

| Code | Study programme competences                                                                                                                                                     |
|------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 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                                                                                                                           |
| A48  | Adequate knowledge of general theories of form, composition and architectural types                                                                                             |
| A50  | Adequate knowledge of the methods of studying the processes of symbolization, practical functions and ergonomics                                                                |
| 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 foundations. |



|     |                                                                                                                                                                                                                                                                                                   |
|-----|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 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                                                                                                                                                                                     |
| 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 competences |     |    |
| Knowing the history of design    | A48                         | B1  | C1 |
|                                  | A50                         | B2  | C3 |
|                                  | A53                         | B3  | C4 |
|                                  | A54                         | B4  | C5 |
|                                  | A55                         | B5  | C6 |
|                                  | A67                         | B6  | C7 |
|                                  |                             | B7  | C8 |
|                                  |                             | B12 |    |
| Knowing the scale of objects     | A1                          | B2  | C6 |
|                                  | A2                          | B4  |    |
|                                  | A3                          | B5  |    |
|                                  | A4                          | B12 |    |
|                                  | A50                         |     |    |
|                                  | A67                         |     |    |
| Knowing physical characteristics | A1                          | B2  | C6 |
|                                  | A2                          | B4  | C7 |
|                                  | A17                         | B5  | C8 |
|                                  | A26                         |     |    |
|                                  | A67                         |     |    |



|                                                                |                                       |                                   |                      |
|----------------------------------------------------------------|---------------------------------------|-----------------------------------|----------------------|
| Knowing manufacturing processes                                | A17<br>A26<br>A27<br>A67              | B1<br>B2<br>B3<br>B4<br>B5<br>B11 | C6<br>C7<br>C8       |
| Being able to imagine these processes                          | A1<br>A2<br>A3<br>A4<br>A17<br>A67    | B2<br>B4<br>B11                   | C6<br>C8             |
| Understanding the social function of design and its usefulness | A50<br>A52<br>A54<br>A55              | B2<br>B3<br>B4<br>B7              | C4<br>C6<br>C8       |
| Relating the industrial design with the architectural space    | A1<br>A2<br>A3<br>A4<br>A27<br>A67    | B2<br>B4<br>B7<br>B11<br>B12      | C6<br>C7<br>C8       |
| Become familiar with the design and its qualities intuitively  | A4<br>A48<br>A50<br>A53<br>A54<br>A67 | B2<br>B3<br>B4<br>B5<br>B6<br>B7  | C4<br>C6<br>C7<br>C8 |

| Contents                                                                                                                                                                                                                   |                        |
|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------|
| Topic                                                                                                                                                                                                                      | Sub-topic              |
| historia do moble<br>o material no proceso do deseño<br>madeira, vidro, aceiro<br>solucións con ensambles, parafusos e encolados<br>o espacio da arquitectura e os pequenos obxectos<br>ergonomia na utilización do deseño | varieties of solutions |

| Planning                       |                                                                            |                      |                               |             |
|--------------------------------|----------------------------------------------------------------------------|----------------------|-------------------------------|-------------|
| Methodologies / tests          | Competencies                                                               | Ordinary class hours | Student?s personal work hours | Total hours |
| Directed discussion            | A3 A4 A17 A50 A52<br>A53 A55 B1 B2 B3 B4<br>B7 B12 C1 C3 C4 C5<br>C6 C7 C8 | 50                   | 0                             | 50          |
| Guest lecture / keynote speech | A26 A27 A48 A50<br>A52 A53 A54 A55 B6<br>B11 B12 C6 C7 C8                  | 25                   | 50                            | 75          |



|                                                                                                                                 |                                                                                                                      |    |   |    |
|---------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------|----|---|----|
| Mixed objective/subjective test                                                                                                 | A1 A2 A3 A4 A17 A26<br>A27 A48 A50 A52<br>A53 A54 A55 A67 B1<br>B2 B3 B4 B5 B6 B7<br>B11 B12 C1 C3 C4<br>C5 C6 C7 C8 | 2  | 6 | 8  |
| Field trip                                                                                                                      | A67 B2 B3 B4 B11 C8                                                                                                  | 12 | 0 | 12 |
| 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                   | corrección de traballos                            |
| Guest lecture /<br>keynote speech     | relación de métodos                                |
| Mixed<br>objective/subjective<br>test | técnica e teoría                                   |
| Field trip                            | visitas a carpinterías de madeira, metálicas, etc. |

| Personalized attention                                                                                          |             |
|-----------------------------------------------------------------------------------------------------------------|-------------|
| Methodologies                                                                                                   | Description |
| Mixed<br>objective/subjective<br>test<br>Directed discussion<br>Guest lecture /<br>keynote speech<br>Field trip |             |

| Assessment                            |                                                                                                                      |                                                                                                                                                                                                                                                                            |               |
|---------------------------------------|----------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------|
| Methodologies                         | Competencies                                                                                                         | Description                                                                                                                                                                                                                                                                | Qualification |
| Mixed<br>objective/subjective<br>test | A1 A2 A3 A4 A17 A26<br>A27 A48 A50 A52<br>A53 A54 A55 A67 B1<br>B2 B3 B4 B5 B6 B7<br>B11 B12 C1 C3 C4<br>C5 C6 C7 C8 | Analízase a aprendizaxe persoalizada, evaluando o traballo final presentado e a proba presencial, conformando a súa puntuación un total do 60% da calificación. O traballo final representará o 40% e proba presencial suporá o 20%, sumando entre os dous o total do 60%. | 60            |
| Directed discussion                   | A3 A4 A17 A50 A52<br>A53 A55 B1 B2 B3 B4<br>B7 B12 C1 C3 C4 C5<br>C6 C7 C8                                           | Puntuase o progreso e a evolución das propostas, así como o oficio que se vai adquirindo.                                                                                                                                                                                  | 40            |
| Others                                |                                                                                                                      |                                                                                                                                                                                                                                                                            |               |

| Assessment comments                                                                                                                                           |
|---------------------------------------------------------------------------------------------------------------------------------------------------------------|
| la puntuación definitiva se realiza al valorar el trabajo final. Al finalizar el curso el alumno tiene una capacidad determinada que ha de ser satisfactoria. |

| Sources of information |
|------------------------|
|------------------------|



|               |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |
|---------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Basic         | 2100 metal tubular chairs : a typology by Mácel, Otakar.Rotterdam : Van Hezik-Fonds 90, [2006] Ideología y utopía del diseño Contribución a la teoría del diseño industrial Selle, Gert.Barcelona : Gustavo Gili, 1975 El diseño industrial y su estética Dorfles, Gillo.Barcelona : Labor, 19776. Aulas/talleres Sidi (1984-1988) Sidi, cinco años de diseño Ambrós i Monsonis, Jordi.Barcelona : Aram, D.L. 1989 Historia del diseño industrial Torrent, Rosalía.Madrid : Cátedra, 2005 Objects 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 & interior designs Billcliffe, Roger.Guildford : Lutterworth Press, 1979 The 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, 1998 Historia 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

Recoméndase un certo interese no deseño de mobles e obxectos relacionados coa arquitectura

(\*)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.