

Course guide

290621 - TECNOI14 - Technology of Interior Spaces

Last modified: 04/09/2024

Unit in charge: Vallès School of Architecture
Teaching unit: 753 - TA - Department of Architectural Technology.
Degree: DEGREE IN ARCHITECTURE STUDIES (Syllabus 2014). (Compulsory subject).
Academic year: 2024 **ECTS Credits:** 7.0 **Languages:** Catalan

LECTURER

Coordinating lecturer: JOAN LLUIS ZAMORA MESTRE

Primer quadrimestre:
JOAN LLUIS ZAMORA MESTRE - Grup: HERRE

Others: Primer quadrimestre:
ALFONSO DE JESÚS GODOY MUÑOZ - Grup: HERRE
JOAN LLUIS ZAMORA MESTRE - Grup: HERRE

PRIOR SKILLS

Recognition of anatomical construction elements
Basic vocabulary building
Main technical functions of buildings

REQUIREMENTS

Technical bases for building
Environmental design of the building
Building Systems

DEGREE COMPETENCES TO WHICH THE SUBJECT CONTRIBUTES

Specific:

ET2G. An aptitude for applying technical and building standards.
ET7G. The ability to conceive, calculate, design and implement systems for the division of interiors, carpentry, stairs and other finishing work and integrate them into existing buildings and urban areas (T).
ET14G. Adequate knowledge of conventional construction systems and their pathology.
ET15G. Adequate knowledge of the physical and chemical characteristics, production procedures, pathology and use of construction materials.
EP19G. Adequate knowledge of ecology, sustainability and the principles of conservation of energy resources and environmental resources.

Generical:

CE7. Knowledge of the methods for research and preparation of construction projects.
CE8. An understanding of structural, construction and engineering design problems related to building design.
CE9. Adequate knowledge of the physical problems, technologies and functions of buildings so as to provide them with comfortable indoor conditions and protection from climate factors.

TEACHING METHODOLOGY

Reflective.

The learning environment must encourage theoretical reflection. In this way, students can go becoming aware of how they learn and make improvements in their own learning process.

Likely.

The teacher must present students with real situations. This is to facilitate learning through the relationship of the student with a real and complex context.

Flexible.

The learning environment must allow students to learn when they can.

Open.

Students must be allowed that some of the content can learn for themselves; should offer them the opportunity to investigate and inquire, for it is best to allow access to different and varied sources of information.

constructive

We must help the new information is developed and built on the previous one, helping the students learn from their work and correcting their progress later.

On.

Internet allows students to take a more active role in the process of acquiring knowledge. It also promotes interaction, participation and generation of knowledge by the students themselves.

Collaborative.

The students not only acquire knowledge but also skills to interact, communicate and work together with other students.

LEARNING OBJECTIVES OF THE SUBJECT

1. Analyze the technical requirements, formal and informal, that raises every project of construction and conditioning of an interior space.
2. Understand the sensitive nature of the interior construction: it is the construction we feel and that makes the interior space livable.
3. Use with solvency vocabulary of materials, products, elements of work proper to the interior construction.
4. Know the regulations that condition the adequacy interventions in the interior of the buildings.
5. Understand and organize the processes of execution of works proper to the interior construction.
6. Integrate construction techniques and interior conditioning of buildings with the rest of subsystems.
7. Understand and prevent the anomalous phenomena and aging of the building elements in the interior.
8. Represent and specify the instructions and own orders of the project and interior work management.
9. Adopt professional decisions with environmental, economic and social responsibility in their interventions to adapt the interior space.

STUDY LOAD

Type	Hours	Percentage
Hours medium group	38,5	22.00
Hours large group	38,5	22.00
Self study	98,0	56.00

Total learning time: 175 h

CONTENTS

Syllabus

Description:

To know the requirements, technical resources, constraints and impacts of construction and conditioning activities of interior architectural spaces, with regard to your application in the project and project management.

Specific objectives:

Concept requirement for use. Concept of technical requirement. Formal rules: the CTE. The informal rules. Environmental impact of the adequacy of internal sector.

The construction and conditioning of the interior elements.

The primary base closures: land, floors, platforms, firm.

Vertical primary closures: partitions, screens, partitions.

Primary coverage closures: roofs, ceilings.

Fixing light systems.

The integration of services and facilities in the interior space. Demands and problems. techniques. constructive solutions.

Linings lower: pavements.

Vertical linings: facings.

The interior topcoats: ceilings.

Internal openings.

Artificial lighting systems.

General concepts of higrotermia.

Heating systems: systems for water and air systems.

Cooling systems: systems for water and air systems.

Ventilation systems.

basics of acoustics and electro-acoustics.

Materials and products for architectural interiors.

The process of placing.

Analysis of constructive goodness of applied technical solutions.

Project documentation necessary for the execution and legalization of the work.

acting trades and work organization.

Quality control methodology, time and costs.

Control of the environmental impact of internal work processes.

Related activities:

Visits to buildings in operation

Visits to showrooms and fairs

Visits to works

Conference professionals

Expert Conference

Business Conferences

Full-or-part-time: 60h

Theory classes: 45h

Practical classes: 15h



GRADING SYSTEM

In order to pass the subject by course, it is essential that the student passes all the assessment acts consisting of:

1 single, INDIVIDUAL CAMP project (follow-up report format of a real work of construction and interior conditioning selected by the student himself), (the quantitative participation of this evaluation in the final assessment of the performance of the subject is 30%). It will be presented to Atenea in .pdf format, separating the main work and its appendices. The length of the work will be limited in its number of pages or sheets. Additional information will be located in the annex.

4 participatory forums for conceptual knowledge, in TEAMS of a maximum of 4 people, held online every 3 Fridays (the quantitative participation of this assessment in the final assessment of performance is 30%). It will later be presented to Atenea in .pdf format.

weekly practical exercises, IN TEAMS of 4 people maximum, presented in class in the Friday session; they will be delivered to Atenea no later than 36 hours later and in pdf format. The exercises will be reviewed during the following week and the evaluation of the result of each exercise will be published through Atenea. During the following Friday's session, the assessment of some relevant exercises will be discussed in class with the teachers (the quantitative participation of this assessment in the final performance assessment is 30%). The extent of each practice will be limited in its number of pages or sheets.

1 MATERIOTECA seminar work presented at the end of each theory class on Tuesdays (the quantitative participation of this assessment in the final assessment of performance is 10%).

Attendance at visits, conferences and other parallel academic events promoted by the subject will be voluntary and will take place, whenever possible, within the teaching period and the timetable of the subject. The student's voluntary face-to-face participation in these activities will be considered up to an additional 10% in the final assessment of their learning

EXAMINATION RULES.

The exercises, visits, conferences, etc are programmed previously in the detailed program of the course each term deposits and update Athena.

BIBLIOGRAPHY

Basic:

- Pile, John. Drawings of architectural interiors. Paperback ed. New York: Whitney Library of Design, 1979. ISBN 0823071588.
- Reznikoff, S. C. Specifications for Commercial Interiors : professional Liabilities, Regulations, and Performance Criteria. New revised edition. New York: Watson-Guption Pub, 1989. ISBN 9780823048939.
- Interiores. Barcelona: Ediciones CEAC, 1991. ISBN 843292024X.
- Pilatowicz, Grazyna. Eco-interiors : a guide to environmentally conscious interior design. New York [etc.]: Wiley, cop. 1995. ISBN 0471040452.
- Stitt, Fred A. Ecological design handbook : sustainable strategies for architecture, landscape architecture, interior design, and planning. New York [etc.]: McGraw-Hill, cop. 1999. ISBN 0070614997.
- Kilmer, W. Otie; Kilmer, Rosemary. Construction drawings and details for interiors : basic skills. New York: John Wiley & Sons, cop. 2003. ISBN 0471109533.
- Material world : innovative structures and finishes for interiors. Basel: Birkhäuser, 2003.
- Bassler, Bruce L. Architectural graphic standards : student edition. Student ed. Hoboken: John Wiley & Sons, cop. 2008. ISBN 9780470085462.
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- Gesimondo, Nancy; Postell, James Christopher. Materiality and interior construction. Hoboken, New Jersey: John Wiley & Sons, 2011. ISBN 9780470445440.
- Hausladen, Gerhard; Tichelmann, Karsten. Interiors construction manual : integrated planning, finishings and fitting-out, technical services. Basel: Birkhäuser, 2010. ISBN 9783034602822.
- Ballast, David Kent. Interior construction & detailing for designers and architects. Sixth edition. Belmont, California: Professional Publications, Inc, 2013. ISBN 9781591264200.

Complementary:

- Gonzalez Moreno Navarro, José Luis. "Elementos verticales interiores". CAU. 1981, núms. 69 (p. 69-83), 70 (p. 75-88), 71(p. 67-82).

- Henn, Walter. Tabiques : problemas técnicos y ejemplos. Barcelona: Gustavo Gili, 1971.
- Márquez Trilla, Eduardo. División de interiores : tabiques-mamparas : elementos modulares. Barcelona: Ceac, 1983. ISBN 8432921211.
- Divisiones interiores de madera. Barcelona: Blume, 1969.
- Bayon, René. Los Tabiques en el edificio. Barcelona: ETA, 1982. ISBN 8471462192.
- Mateo Jiménez, Juan Luis; Serrano Serrano, Alfonso. Tabiques y falsos techos. Madrid: la Escuela, 1987. ISBN 8486957192.
- "PTL". Fachadas y particiones : diseño, cálculo, valoración, construcción, control, mantenimiento. Madrid: Ministerio de Obras Públicas y Urbanismo, 1995. p. 501-514.
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- Barahona Rodríguez, Celia. Revestimientos continuos en la arquitectura tradicional española. Madrid: MOPT, 1992. ISBN 8474337895.
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- Tan, Hock Beng. Tropical architecture and interiors : tradition-based design of Indonesia, Malaysia, Singapore, Thailand. Singapore: Page One Publishing, cop. 1994. ISBN 9810040326.

RESOURCES

Other resources:

Professional organizations:

<http://www.codic.org> [Official College of Decorators and Designers of Catalonia]

<http://www.adp-barcelona.com> [association of professional designers]

<http://www.arq-infad.org> [Association of Architects and Interior Designers]



Organizations and associations:

<http://www.bcd.es> [Barcelona Design Centre]
<http://www.fadweb.com> [promotion of decorative arts]
<http://www.moblescat.com> [Catalan Federation of Furniture Traders]
<http://www.iida.org> [international association of interior design]

decoration:

<http://www.dekoracion.com> [Decoration Portal, news, current affairs ...]
<http://www.decoracioatres.com> [integrated projects Interior]

Museums:

<http://www.museuartsdecoratives.bcn.es> [Museum of Decorative Arts in Barcelona]
<http://www.macm.org> [Museum of Decorative Arts in Montreal, Canada]
<http://www.moma.org> [Museum of Modern Art (MOMA)]
<http://www.design-museum.org.uk> [Decorative Arts Museum of London]

schools:

<http://www.baued.es> [Bau, School of Design]
<http://www.eina.edu> [Eina School of Art and Design]
<http://www.iccic.edu/elisava> [Elisava School of Design]
<http://www.escolamasana.es> [Escola Massana]
<http://www.deiadiisseny.com> [Deia, School of Design]
<http://www.laiedu.org> [Lai, School of Design]
<http://www.artdisseny.com> [Municipal School of Art in Terrassa]

others:

<http://www.fotomobil.com> [Search for photos]
<http://www.rutadisseny.com> [Bars, buildings, spaces, etc. Barcelona]
<http://www.designboom.com> [information, studies and interviews on the world of design]