

Course guide

310760 - 310760 - Change of Use of Buildings

Last modified: 13/01/2024

Unit in charge: Barcelona School of Building Construction
Teaching unit: 752 - RA - Departamento de Representación Arquitectónica.

Degree: BACHELOR'S DEGREE IN ARCHITECTURAL TECHNOLOGY AND BUILDING CONSTRUCTION (Syllabus 2019).
(Optional subject).

Academic year: 2023 **ECTS Credits:** 3.0 **Languages:** English

LECTURER

Coordinating lecturer: Dídac Gordillo Bel

Others: Dídac Gordillo Bel

PRIOR SKILLS

Ability for the drawing and graphical representation and knowledge in architecture and construction for the development of projects.

REQUIREMENTS

Core subjects of graphical expression.
Define the architectural styles of any inherited building.
Identify the periods of each architectural style.

DEGREE COMPETENCES TO WHICH THE SUBJECT CONTRIBUTES

Specific:

FB-03. FB-3 Ability to apply the systems of spatial representation, the development of the sketch, the proportionality, the language and the techniques of the graphical representation of the constructive elements and processes.

FE-01. FE-1 Ability to understand and make the graphical documentation of a project, to do data gathering, surveying of plans and geometric control of construction units.

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FE-04. FE-4 Knowledge of the materials and traditional or prefabricated construction systems used in construction, their varieties and physical and mechanical features which define them.

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FE-06. FE-6 Knowledge of the historical evolution of the constructive techniques and elements and the structural systems which have led to stylistic forms.

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FE-10. FE-10 Aptitude to intervene in the refurbishment of buildings and the restoration and preservation of the built heritage.

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Transversal:

04 COE N3. EFFICIENT ORAL AND WRITTEN COMMUNICATION - Level 3. Communicating clearly and efficiently in oral and written presentations. Adapting to audiences and communication aims by using suitable strategies and means.

02 SCS N3. SUSTAINABILITY AND SOCIAL COMMITMENT - Level 3. Taking social, economic and environmental factors into account in the application of solutions. Undertaking projects that tie in with human development and sustainability.

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TEACHING METHODOLOGY

The subject is developed in two parts: one theoretical parts where is proposed a tour through the most relevant manifestations of the last centuries about the initial historic and stylistic basis, continuing with the following interventions, until the current period of the architecture in all its field and with all its artistic wealth. And also a second part which is practical where there will be developed different space solutions.

Communication with the faculty in class and by email.

Presentation of the theoretical lectures at class.

Occasionally there will be programmed some architectural visit which the professor considers interesting.

LEARNING OBJECTIVES OF THE SUBJECT

STUDY LOAD

Type	Hours	Percentage
Hours large group	30,0	40.00
Self study	45,0	60.00

Total learning time: 75 h

CONTENTS

- Treatise of the architecture by the styles and typologies

Description:

Theoretical Block. Treaty of the architectures through the styles and typologies.

1. The styles through the architects. Buildings with unknown author
2. Different periods through their buildings.
3. Elements of the architecture. Purpose, technique, space communication, housing, form and utility.
4. Ephemeral architecture.
5. Restoration of spaces.
6. Furniture and architecture.

Specific objectives:

The objectives consist in the ability of the student to express with graphical techniques, some intervention projects in determined spaces and its transformation, by models coming from the architecture.

Related activities:

Valuation of the attendance and cooperation at class.

Activities: Individual or in group works in continuous evaluation.

Full-or-part-time: 58h

Theory classes: 8h

Practical classes: 8h

Guided activities: 14h

Self study : 28h

- Transformation of the architectural spaces according to the original typology

Description:

Theoretical block. different architectural typologies.

1. Educational architecture.
2. Religious architecture.
3. Industrial heritage
4. Industrial colonies
5. Funerary architecture
6. Heritage and defensive architecture- Transformation of architectural spaces according to the original typology

Specific objectives:

In this content the students work:

Transformation of the spaces. The adaptation process to the destined use. Through several projects: Lofts, apartments, unique dwellings, industrial units, recycling: dwellings and offices, small buildings.

Expression, representation and forms of the materials through the graphic art.

Related activities:

Valuation of the attendance and cooperation at class.

Activities: Individual or in group works, continuous evaluation.

ADAPTATION OF ARCHITECTURAL SPACES IN UNIQUE BUILDINGS.

The most important activity is to guide the student through the fulfilment of a project similar to the PFG which will be presented for the obtaining of the degree.

Full-or-part-time: 58h

Theory classes: 8h

Practical classes: 8h

Guided activities: 14h

Self study : 28h

GRADING SYSTEM

Each day of class there will be done an oral exposition about the corresponding topic and there will be developed a graphical exercise at class following the professor guidelines.

There will be proposed and corrected a special homework at half course, and there will be delivered a final project with a valuation for everyone of 50% of the final mark .

The attendance to class and the active involvement of the students are valued.

EXAMINATION RULES.

To achieve the final mark, the professor must have corrected personally the works of the student at class. There won't be accepted any work which has not been supervised by the professor.

The drawing and presentation techniques are totally free with the exception of the paper format which will be in DINA3 format.

THE FINAL PART OF THE SUBJECT WILL BE DEVELOPED BY MEANS OF A WORK SIMILAR TO THE PFG DIRECTED TO THE FULLFILMENT OF THE SAME.

BIBLIOGRAPHY

Basic:

- Curset sobre la Intervenció en el Patrimoni Arquitectònic; Alcindor Huelva, Mónica; Fortià, Josep M. Arquitectura tradicional, essència o forma : un debat obert al voltant de la intervenció a l'arquitectura vernacle : actes del XXXVIIIè Curset, Jornades Internacionals sobre la Intervenció en el Patrimoni Arquitectònic. Barcelona: Col·legi d'Arquitectes de Catalunya, Agrupació d'Arquitectes per a la Defensa i la Intervenció en el Patrimoni Arquitectònic (AADIPA), 2016. ISBN 9789892059099.
- Ferrer, David; Gómez Serrano, José. Els Arquitectes de Gaudí : [Berenguer, Rubió, Jujol, Sugrañes, Ràfols, Quintana, Martinell, Martínez Bergós, Bonet, Puig Boada]. Barcelona: Col·legi Oficial d'Arquitectes de Catalunya, Àrea de Cultura, Formació i Publicacions, 2002. ISBN 84-88258-99-2.
- Ferrer, David; Gomez Serrano, Jose. Els Arquitectes de Gaudí: Berenguer, Rubió, Jujol, Sugrañes, Ràfols, Quintana, Martinell, Martínez Bergós, Bonet, Puig Boada. Barcelona: Col·legi d'Arquitectes de Catalunya. Àrea de Cultura, Formació i Publicacions, 2002. ISBN 84-88258-99-2.
- Martinell Brunet, César. Construcciones agrarias en Cataluña. Barcelona: La Gaya Ciencia, 1975. ISBN 8470804197.
- Asarta, Francisco Javier. Monasterios : intervención en el patrimonio arquitectónico = Monestirs : intervenció en el patrimoni arquitectònic. [Barcelona]: Col·legi d'Arquitectes de Catalunya, 2002. ISBN 8488258488.
- Galcerán Vila, Margarita; Lacuesta, Raquel; Nadal i Pla, Margarida; Pujol i Forn, Jordi. Classicisme i modernisme en el cementiri de Sant Andreu. Barcelona: F12 serveis editorials], 2009. ISBN 9788493752101.
- González Moreno-Navarro, José Luis; Casals, Albert. Gaudí y la razón constructiva: un legado inagotable. Madrid: Akal, 2002. ISBN 84-460-1976-0.
- Cubeles i Bonet, Albert; Cuixart Goday, Marc; Capsada, Jaume; Ribalta, Mariona; Ainaud de Lasarte, Josep M; Bohigas, Oriol; Darder, Pere; Mayos Solsona, Gonçal; Barral i Altet, Xavier; Pascual, Eva. Josep Goday Casals : arquitectura escolar a Barcelona de la Mancomunitat a la República. Barcelona: Ajuntament de Barcelona. Institut d'Educació, 2008. ISBN 9788498500738.
- Padró Margó, Josep; Casals, Lluís. Colònia Güell : indústria, arquitectura i societat. Barcelona: Angle Editorial, 2002. ISBN 8488811950.
- Jornadas Internacionales sobre la Intervención en el Patrimonio Arquitectónico; Gordillo Bel, Dídac. Fortificaciones : intervenciones en el patrimonio defensivo : actas del XXXIV Curset. Jornadas Internacionales sobre la intervención en el patrimonio arquitectónico : Barcelona y Tortosa, del 15 al 18 de diciembre de 2011. Madrid: Ministerio de Educación, Cultura y Deporte, Secretaría General Técnica : COAC : Agrupació d'Arquitectes per a la Defensa i la Intervenció en el Patrimoni Arquitectònic, DL 2103. ISBN 9788493752163.

RESOURCES

Other resources:

Research works and visits to some working places and to buildings of heritage interest, in Barcelona.