

Course guide 210523 - RTFG - Retrofitting: Architecture, Energy and Health

Last modified: 15/07/2024

Unit in charge: Barcelona School of Architecture

Teaching unit: 753 - TA - Department of Architectural Technology. 735 - PA - Department of Architectural Design.

7.55 T. Faparament of Financiacara Basigm

Degree: MASTER'S DEGREE IN ARCHITECTURE (Syllabus 2015). (Optional subject).

Academic year: 2024 ECTS Credits: 5.0 Languages: Catalan, Spanish

LECTURER

Coordinating lecturer: EVA CRESPO SÁNCHEZ - JORDI ADELL ROIG - CÒSSIMA CORNADÓ BARDÓN

Others: Segon quadrimestre:

JORDI ADELL ROIG - M2

CÒSSIMA CORNADÓ BARDÓN - M2 EVA CRESPO SÁNCHEZ - M2

REQUIREMENTS

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TEACHING METHODOLOGY

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LEARNING OBJECTIVES OF THE SUBJECT

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STUDY LOAD

Туре	Hours	Percentage
Self study	95,0	76.00
Hours large group	30,0	24.00

Total learning time: 125 h

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Description:

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Specific objectives:

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Full-or-part-time: 33h 20m Theory classes: 6h 40m Laboratory classes: 20h Guided activities: 6h 40m

GRADING SYSTEM

Continuous assessment

Continuous assessment will be based on the work carried out by the student during the academic year, through the submission of assignments or the performance of written and/or oral tests, according to the criteria and timetable established.

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Final assessment

If the continuous assessment is not positive, a second assessment may be carried out, which will consist of a final overall test in the established methodology according to the criteria of the lecturer in charge (written or oral test and/or submission of assignments).

BIBLIOGRAPHY

Basic:

- Capdevila, Ivan. Rehabilitació energética d'edificis [on line]. 1a edició. Barcelona: Generalitat de Catalunya. Institut Català d'Energia, octubre de 2016 [Consultation: 07/07/2022]. Available on: https://icaen.gencat.cat/web/.content/10 ICAEN/17 publicacions informes/04 coleccio QuadernPractic/quadern practic/arxius/10 r ehabilitacio edificis.pdf.
- Torgal, Fernando Pacheco. Cost-effective energy-efficient building retrofitting: materials, technologies, optimization and case studies. 1st edition. Cambridge, Massachusetts: Woodhead Publishing, 2017. ISBN 0081012276.

Complementary:

- EC EUROPE. AAVV. Handbook on Sustainable and Circular re-use of spaces and buildings. Urban Agenda for the EU. 2nd Edition. Woodrow Clark, 2017. ISBN 9780128139646.
- Ravetllat, J.; Díaz, C; Cornadó, C.; Vima, S.. La millora de les condicions d'habitabilitat en els grans conjunts residencials de l'Àrea Metropolitana de Barcelona [on line]. Iniciativa Digital Politècnica. Oficina de Publicacions Acadèmiques Digitals de la UPC, 2019Available on: https://upcommons.upc.edu/handle/2117/178642.
- CAATEEB. AA.VV. Col·lecció Manuals de diagnosi [on line]. CAATEEB. [Consultation: 07/07/2022]. Available on: https://www.apabcn.cat/ca_es/serveicolegiat/cdoc/bdigital/Pagines/manuals-diagnosi.aspx.
- Voss, K.; Musall, Eike. Net zero energy buildings: international projects of carbon neutrality in buildings. Germany?: EnOB, 2013. ISBN 9783920034805.

RESOURCES

Other resources:

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