

Course guide

210725 - PRR - Project, Waste and Recycling

Last modified: 25/06/2024

Unit in charge:	Barcelona School of Architecture	
Teaching unit:	735 - PA - Department of Architectural Design.	
Degree:	MASTER'S DEGREE IN ADVANCED STUDIES IN ARCHITECTURE-BARCELONA (Syllabus 2015). (Optional subject).	
Academic year: 2024	ECTS Credits: 5.0	Languages: Spanish

LECTURER

Coordinating lecturer:	MARIA ELENA FERNANDEZ SALAS
Others:	Primer quadrimestre: MARIA ELENA FERNANDEZ SALAS - PPP1

PRIOR SKILLS

Degree in Architecture

REQUIREMENTS

Recommended level of Spanish language C1 (Domain), required B2 (Advanced)

TEACHING METHODOLOGY

Expository method/Master lesson
Participatory expository class
Seminar/Workshop
Autonomous work
Tutorships

LEARNING OBJECTIVES OF THE SUBJECT

Develop capabilities to:

- Intervene in decision making in the management of complex projects
- Conceive and carry out architectural projects applying the advanced theoretical foundations of the project
- Investigate the environment and the cultural context, both urban and territorial, to apply it to the architectural project.
- Deepen knowledge and skills related to the relationships between architecture and other artistic disciplines and their application in the architectural project and the urban project.
- Develop skills to interpret reality, not only in relation to its physical dimension, but also in the intangible dimension that constitutes the data that today, inexorably, determines any type of context.
- Build reflective and practical instruments aimed at activating obsolescent architectures and territories, through strategic reprogramming that not only determines the intervention project in what is built, but also its implementation process.



STUDY LOAD

Type	Hours	Percentage
Self study	87,5	70.00
Hours large group	37,5	30.00

Total learning time: 125 h

CONTENTS

Project, Waste and Recycling

Description:

Maybe, architecture doesn't have to be stupid after all. Liberated from the obligation to construct, it can become a way of thinking about anything -a discipline that represents relationships, proportions, connections, effects, the diagram of everything-. Rem Koolhaas, AMO-OMA and &&&, Content (Köln: Taschen, 2004), p. twenty.

PRESENTATION

The subject aims to provide resources, references and instruments that allow the student to interpret the built environment from the perspective of "what is necessary", the analysis of "what is available" and the commitment to "what is sustainable". It is aimed at professionals committed to their time and willing to face the problems that will characterize to this first half of the 21st century: globalization, massive growth of cities, energy crisis and environmental damage. A time, ours, also characterized by the "unsustainability" that "excessive construction" entails, in most cases, without use or with obsolete programs and that will become (for not agreeing that "it already is"), without a doubt, in a wide scope of the architect's work.

In short, the main objective of this subject will be to demonstrate the potential implicit in the reactivation of architectures subject to past uses with programming that responds to current needs. This approach will imply the exchange of the vocation of "author" for the aptitude of the "interpreter", something that will require the redefinition of what what is understood today by "architect". To do this, real situations will be presented that instruct the student in reading reality, encouraging their interest not only in matters related to understanding concepts and obtaining data, but also instructing them in the construction of "contextualized knowledge" of situations and problems. concrete, in short "interpreting" the waste through its recycling.

With all this, the aim is to instruct not only sight, but also smell, understood as a sensory and intuitive appeal that allows the individual to see beyond the obvious, something essential to propose "architectural solutions" without necessarily implying the "constructive fact."

CONTENT, METHODOLOGY AND FORMAT

This instruction will be carried out through theoretical classes given at the beginning of the session aimed at showing different intervention strategies on what is built based on skills that address the ecological and sustainable issue not as an option, but as a need that is taken advantage of. to conceive form and matter. TO

Through this discourse, an "architectural sustainability" will be defended and defined, which, far from being restricted to respect for environmental aspects, pursuing the economy of resources, justifying the use of material and promoting the use of renewable energies, expands its field of action. to economic, cultural and social issues in order to offer the architecture that the contemporary individual needs.

The second part of the session will be understood as a space for reflection and debate of the practical work proposed with the objective of merging or relating the theoretical framework that bases this optional subject with that of the core associated with it: Architecture, Environment and Technology.

The contents to be developed in this subject are structured into three themes oriented to the study of recycling from the material, from the architecture and from the urban fact.

Each of these topics is taught in blocks of three and two weeks, relative to the structure that marks the intensive teaching of the Urban Scenarios subject.

Specific objectives:

- Detect the "urban unsustainability" implicit in fabrics with disused buildings doomed to deterioration due to obsolescence.
- Discover the spatial potential of these buildings, something that will allow inoculating programs capable of making architecture work more and better with less.
- Propose sustainable regeneration strategies for "what exists" through tactics aimed at increasing its efficiency from an urban point of view.
- Present "what is built" as the opportunity to propose spatial solutions to new needs, avoiding "new construction".
- Reformulate the profile of the "architect", a professional who, having gone beyond the view educated in the trade, learns to use the strategist's own perspectives in order to discover new opportunities and areas for architecture.
- Revalue the social role of this "new architect", demonstrating that his challenge to what is established, far from questioning "the merely professional", updates it by framing it in other areas of action.
- Test research resources to compile documents that not only explain the disciplinary nature of these vacant architectures, but also reconstruct their history through the uses they have been able to accommodate.
- Learn to manage this documentation graphically and in writing so that it can be used as "project material."

These challenges will require developing perhaps opposing skills, since the reading of the complexity that characterizes our reality today requires both the objectivity necessary to approach the analysis of a generic situation, and the passion implicit in any individual perception.

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**Related activities:**

Visits to situations that fit the problem raised in the practical exercise.
Attendance at conferences and exhibitions on topics related to the contents of the subject.

Full-or-part-time: 125h

Theory classes: 15h

Laboratory classes: 30h

Self study : 80h

GRADING SYSTEM

Attendance to class and participation in critical debates: 30%.

Practical exercises: 70%.

EXAMINATION RULES.

Critical capacity in the analysis of specific situations, Mastery of the skills necessary for writing a scientific text, Skills to manage documentation and Quality in graphic representation.

BIBLIOGRAPHY**Basic:**

- Bahamón, A.; Sanginés, M. C. Rematerial: del desecho a la arquitectura. Barcelona: Parramón, 2008. ISBN 9788434233652.
- Ballesteros, José A.. Ser artificial: glosario práctico para verlo todo de otra manera. Barcelona: Fundación Caja de Arquitectos, 2008. ISBN 9788493592974.
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- Rowe, C.; Koetter, F. Ciudad collage. Barcelona: Gustavo Gili, 1998. ISBN 8425217466.
- Jacob, Jane. Muerte y Vida de las grandes ciudades.. Barcelona: Entrelíneas, 2011. ISBN 9788493898502.
- Nava, Consuelo; Certa, Maurizio; Gausa, Manuel. The laboratory city: sustainable recycle and key enabling technologies. Canterano: Aracne, 2016. ISBN 978-88-548-9345-0.
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- Gausa, Manuel. Open: espacio tiempo información ; arquitectura, vivienda y ciudad contemporánea: teoría e historia de un cambio. Barcelona: Actar, 2010. ISBN 9788496954861.
- Monteys, Xavier. Rehabitar en nueve episodios. Madrid: Ministerio de Fomento, 2012. ISBN 9788461600540.
- Alday, Iñaki; Vir Gupta, Pankaj. Yamuna River project : New Delhi urban ecology. New York ; Barcelona: Actar Publishers ; [Charlottesville], Va. : University of Virginia, [2018]. ISBN 9781945150678.
- Reduce, reuse, recycle : architecture as resource : German Pavilion, 13th International Architecture Exhibition La Biennale di Venezia 2012. Ostfildern: Hatje Cantz, 2012. ISBN 978-3-7757-3425-7.
- Brandhuber, A; Roth, ; Steger,A;. Legislating Architecture Schweiz. Zurich: Patrick Frey., 2016.
- Herreros, Juan. Textos Críticos. Madrid: Ediciones Asimétricas, [2019]. ISBN 9788417905248.
- Monteys, Xavier; Mària i Serrano, Magdalena; Fuertes, Pere; Sauquet Llonch, Roger; Salvadó Aragonès, Núria. Atlas del aprovechamiento arquitectónico : estudio crítico de los edificios reutilizados en Barcelona. Barcelona: Habitar Grupo de investigación : UPC, Departament de Projectes Arquitectònics, octubre 2018. ISBN 9788494846601.

Complementary:

- Rodríguez, Diego A. Sobre el oficio y la técnica en la obra de Josep M^a Jujol [on line]. Barcelona: universitat Politècnica de Catalunya, 2006 [Consultation: 05/10/2015]. Available on: <http://www.tdx.cat/TDX-0221107-135616/>.