HANDBOOK ETSAB
An Attempt at an Archive
2018-2020
HANDBOOK
ETSAB

An Attempt at an Archive
2018-2020

Edited by
Carolina B. García-Estévez
Many years ago, more than two thousand, Vitruvius wrote about “what is architecture” and “what should architects know”. These questions appeared in the first chapter of the first book of his well-known treatise Ten Books on Architecture.

But, what do we teach at Barcelona School of Architecture? Do we teach what architects need to know? The answer is obvious, and it is supported by the courses currently taught and shown in the present volume.

It constitutes a wide variety. It seems so but, in order to train in “what architects should know” all these courses are needed, as all of them converge in a central common objective: to offer the best training possible on architecture.

The origins of this concern go back to the 1775 noble School of Arts and Trades, where the first course on architecture in Barcelona was created in 1817. In 1875 it would assume definitively its present name and, then, in 1971 became cofounder of the current Barcelona Tech.

The volume the reader is carrying shows how Barcelona School of Architecture answers that second question by Vitruvius.

It is quite possible to find someone missing certain topics currently considered indispensable by the logic of the moment, by the evolutive process of our society, by the changes and social needs, or the unalterable need of always having the correct answers. But that is not something which this or that course should clarify. It is not their duty, neither that of Barcelona School of Architecture.

Our responsibility focuses on training the students to consolidate the resources and mechanisms needed to correctly answer the above-mentioned questions in the future. Therefore, is based on a crosswise work, a multidimensionality that allows to connect different topics with each other.
This way, a balance can be reached fit for the various factors in the equation, knowing, as well, the solution is not unique. Only in this way can we aspire to change the world for the better.

There is no interest for what is complicated, what is important is what is complex: we work on the complexity.

Our School qualifies to practice the architectural profession through all the processes needed, and assuming each and every one of its dimensions. Our graduates confirm that the architectural is a restless trade with an ever less blurry horizon although wider and more ambitious. It is here where that multidimensional training allows to face any challenge without hesitation, with excellent results, and a value and prestige that make our students to be sought after worldwide. Our reputation comes from them.

Their work in Barcelona School of Architecture is kept in our memory, in our brilliant academic archive, one of the better celebrated worldwide. Graphic documents dating back to the beginning of the 18th century show the intimate relationship of Barcelona School of architecture with the construction of the city, of Barcelona, which arouses so much interest all over the world.

The memory of our present is showed year after year in the exhibition of the works from all the courses and years in an event we call Open ETSAB. An exhibition that introduces the training labour intimately linked to the research and professional practice of the various lecturers and departments. A synthesis that feeds the cultural area of the school with numerous exhibitions and publications that can also be seen in our website. An activity that arouses great interest, national and internationally, thanks to the exchanges with the best universities worldwide.

Barcelona School of Architecture is a community formed by more than 3,500 individuals. This publication reflects the collective effort of students, administrative, professional and technical staff, as well as teaching and research staff alike.

I hope you enjoy it!

Félix Solaguren-Beascoa de Corral
Dean of School
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**SDIR 740 UOT. URBANISM AND REGIONAL PLANNING**
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Rosario González Rodríguez

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The Universitat Politècnica de Catalunya-BarcelonaTech (UPC) presents a matrix management based on teaching centres and departments teaching doctorate programs and providing resources to the various research teams. The ETSAB is currently organised in 5 departments of diverse organizational structures.

Within the current 5 departments, there is a large one, the Department of Architectural Technology, which includes several knowledge areas within its structure. Others are more specific such as the Department of Architectural Representation, that of Urbanism and Regional Planning, the Department of Theory and History of Architecture and Technical Communication or that of Architectural Design. Each one has its own specificities and structure. There is also the Physics Section, a departmental section understood as a cross-departmental division for the whole of the UPC.

Lecturers teaching at ETSAB belong to one of these departments. The management and involvement of teachers takes place at the governing body of each department, with a weighted representation dependent on academic level and contractual tie.

**DEPARTMENTS AND DIVISIONS**

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Degree in Architecture Studies (Curriculum 2014)

The GAqEtsaB is the 5 years Degree in Arquitecture Studies that grants the formation as a professional. The basis of the teaching is centred around the Architectural project with knowledge about the history and theories about architecture, urbanism and planning, research methods and graphic representation, as well as the structural, construction and engineering design problems related with buildings. The formation qualifies the students so they may integrate in the architectural productive activity, develop projects that fulfill the aesthetic and current technical requirements and the applications of the contemporary society and city. The courses of the GAqEtsaB combine workshop methodologies with master class and the student’s work holds the central axis of the Degree learning process.

The overcoming of the Degree in Architecture Studies, allows acces to the MArqEtsaB, which entitles to pursue the profession of Architect.

First Year
- Drawing I
- Mathematics I–II
- Physics I
- Basis for Design I–II
- Basis for Theory
- Drawing II
- Physics II
- Basis for Technique

Second Year
- Conditioning and Services I
- Design I–II
- Urban Design I
- Urban Design II
- History I
- Architectural Representation I
- Construction I
- Structures I

Third Year
- Architectural Representation II
- Structures II
- Design III–IV
- Urban Design III
- Urban Design IV
- History II
- Architectural Representation III
- Conditioning and Services II

Fourth Year
- Structures III
- Urban Design V
- Urban Design VI
- Theory I
- Construction III
- Conditioning and Services III
- Design V–VI
- Architectural Representation IV

Fifth Year
- Construction IV
- Structures IV
- Theory II
- Thematic Studio I–II
- Visiting Studio I–II
- Architecture and Invention I–II
- Architecture and Technology I–II
- Project & Location I–II
- Project and Public Space I
- Project and Landscaping II
- GP Architects I–II
  (Arquitectes de Capçalera AC)

Elective Subjects
- GP Final Thesis
  (2014 Educational training)
Drawing I
Department of Architectural Representation | RA

COORDINATORS Carmen Escoda (2018-19), Isabel Zaragoza and Héctor Mendoza (2019-20)
LECTURERS Maite Aguado, Joana Ayxendri, Pasqual Bendicho, Maite Díez, Renata Gomes de Mendonça, Juan Mercadé, Joan Valgañón, Francisco Javier González, Andrea Ortega, Kim Lloveras, Judith Taberna, Bruno Sewe, Isidre Santancreu, Oriol Ribó, Erik Solés
WEB https://dibarq1upc.wixsite.com/dibarq-etsab-upc/programa

Drawing I is the subject that aims to achieve sufficient skill to visualize architecture and its surroundings through ‘manual drawing’ as a tool for architecture analysis. Manual drawing is the essential tool of expression for architects, a fact that is underestimated nowadays due to the use of new technologies. Therefore, we want to provide proper training for the representation of architectural spaces, stressing the correct use of perspective and proportion of elements so as to achieve a correct perception of the space. The main goal of our subject is to achieve sufficient skill to express and represent architectural forms by means of outlines and sketches, and through knowledge of tools and techniques.

Drawings of Isabella Pedralls, Katerina Pouchtine, Marc Miquel, Biel Graset, Mellane Mora, Roger Rosell, Marta Martin, Mireia Mariño, Mohamed Asttaf, Guille Cerezo, Oliver Unigwe, Lorena Ojea, Ana Lafita, Miquel Ripoll, Rut Guinart, academic course 2019-20

Lluis Clotet, Antonio Panico, Library at the Ciutadella water tank, UPF Barcelona (1992)

Ludwig Mies van der Rohe, Lilly Reich, Barcelona Pavilion (1929)
Mathematics I-II
Department of Architectural Technology | TA

COORDINATORS  Pere Cruells, Piedad Guijarro, Amadeu Monreal, M. Santos Tomás
LECTURERS  Gabriela Apricopoea, Helena Belloc, Jordi Casabó

Mathematics I and II play a role that is both educational and informative:
They provide tools for the resolution of architectural problems, and enrich the
creativity of the architecture professional.
They offer a work method that accustoms to consider problems with precision.
They teach resolution techniques, essential theoretical concepts, and cultural
mathematical contents that all future professionals must know in depth.
Maths I is an introduction to geometry, essential to architectural studies, and
develops geometrical and algebraic concepts that influence architectural design.
It also goes in depth into knowledge of plane and space. The subject aims to con-
vey not only resolution techniques, but also their essential theoretical concepts.
Mathematics II aims to develop the ability to identify, consider, solve, interpret
and verify problems that entail calculations, using typical examples from the
architectural profession, and with an eminently geometric nature. Heuristic, an-
alytical and numerical aspects of calculation techniques are developed, through
the study of curves and surfaces.

Physics I
Department of Physics, Section ETSAB | PHY

COORDINATOR  Ramón Torres Herrera
LECTURERS  Aleix Álvarez, Francesc Fayos, Fidel Franco, M. Dolors Martínez, Jelena Nikolić,
Jaume Roset

Physics I belongs to the ensemble of basic subjects included on the propaedeu-
tic module of the first year. It aims to apply knowledge of the basics of physics
to architectural structures. This subject is conceptually justified by the fact
that Spanish architects are, from a legal point of view, responsible for the build-
ing in its entirety. Therefore, they need sufficient scientific and technological
knowledge.
The subject covers the conceptual space between the models of the discipline
most commonly used in structural technology and the initial results of the analy-
sis of complex structures. From a pedagogic standpoint, the subject is structured
in such a way that the student acquires this knowledge step by step. Therefore,
the subject starts with models of isolated particles or of rigid or elastic solids,
moves through Newton's and Hooke's laws, to axial stress-strain diagrams, shear
stress and flexural moments of porticoes, ending with the estimate of the strain
rates of beams and porticoes.
Basis for Design I-II (mornings)
Department of Architectural Design | PA

COORDINATOR Daniel García-Escudero
LECTURERS Arrate Abaigar, Félix Arranz, Adrià Blanco, Adrià Escolano, Relja Ferusic, Queralt Garriga, Ariadna Perich, Jaume Prat, Carles Sala, Magda Saura, Roger Such, Toni Vidal, Eduardo Llorens (teaching support)
INSTAGRAM @bpmetsab

The nine square grid problem
Basis for Design I and II (mornings) conform a logical unit in the introduction to the degree’s basic subjects, within the propedeutic module of first year, although they are two differentiated subjects evaluated independently. For this reason, they are planned as one academic unit, with a continuity in contents and methodology, processes and dynamics. ‘The construction of form’ (1st term) and ‘The experience of space’ (2nd term) constitute two successive approaches to the concepts of form and space, with one common thread: the archetypal exercise The Nine Square Grid Problem. This exercise, from the University of Texas and The Cooper Union, has been applied in schools worldwide as an initiation to the world of architecture due to its logic: first geometric and abstract and then formal, spatial and constructive. In short, the student is accompanied on a journey from the intellectual to the sensorial realms, from the object to the subject, from the geometry and the elements to their relationships and spaces.
Basis for Design I-II (afternoons)

Department of Architectural Design | PA

COORDINATOR Ferran Grau, Yolanda Ortega (coordination 1st term), Eduard Callís, Inés de Rivera (coordination 2nd term)

LECTURERS Bernat Hernández, Jordi Mansilla, Inés de Rivera, Alberto González (teaching support)

INSTAGRAM @eltercertemps

The third movement

Basis for Design I and II (afternoon) constitute the starting point for training in architectural projects, allowing analysis and reflection on how architecture is generated. Gradually, through diverse activities, either in the studio or the classroom (project theory), and by means of practical exercises or visits, the architectural elements are introduced as those that define the form of the habitable space and its diverse relationships.

During the 1st term, the human form is established as the unit of measurement, and work is carried out on every essential architectural element from an isolated standpoint: horizontal plane and limit, vertical plane and filter, structure, roof and light, and vertical connectors.

Over the 2nd term, knowledge of the architectural elements allows a contextual approach to the ‘architectural landscape’, where location in an urban or rural context asserts to the analysis of the surroundings (the location), the discovery of the programmatical need (the program), and the importance of the built formalization (the technics).

The location determines the architecture and the architecture transforms the location.

Midterm models, academic course 2018-19

Pablo Rodríguez, Axonometry of the housing unit, spring term 2018-19
Since its origin, architectural production has been inseparable from its reflection and theorization. Basis for Theory aims to introduce this theoretical aspect of architecture: the comprehension that designing and building cannot be detached from thinking and interpreting: about the diverse ways of inhabiting or living, about the various definitions of architecture throughout history, about the concept of ‘space’, about the use of the technology in relation to nature, or the meaning of the arts... All these theoretical aspects can be seen or ‘read’ in all-time architecture.

The subject aims to educate the gaze, to provide the conceptual tools and the basic historic body of knowledge from which to learn to read architecture, so as to understand it in all its cultural richness. Ultimately, it aims to study the architectural fact, not just as a building that satisfies the basic needs stated in a functional program, but as a cultural piece that has to be understood in all its complexity.
Drawing II
Department of Architectural Representation | RA

**COORDINATORS** Héctor Mendoza (Substitute: Renata Gomes) (2018-19), Héctor Mendoza and Isabel Zaragoza (2019-20)

**LECTURERS** Maite Aguado, Joana Ayxendri, Pasqual Bendicho, Maite Diez, Carmen Escoda, Renata Gomes de Mendonça, Carles Ferrán, Juan Mercadé, Joan Valgañón, Francisco Javier González, Andrea Ortega, Kim Lloveras, Judit Taberna, Bruno Seve, Isidre Santancreu, Oriol Ribó, Joan Mercadé, Erik Solés

**WEB** https://dibarq.etsab-upc.com/dibarq-etsab-upc/programa

The aim of this subject is to provide students with sufficient graphic tools and training for graphic discourse coherent with the design process, that is, a fluid relationship between the architectural discourse and its graphic representation. The objective is to provide proper training for the representation of architectural spaces, through the glass of a contemporary compositional and constructive mindset. This is achieved with focus on the treatment of light, good proportion of elements, the perception of the space, and the representation of materials and textures using the knowledge the students have accumulated from previous courses throughout this year. It also aims to expand the artistic information that examines organizational, compositional and structural processes that have been contributed by the plastic experiences of the 20th and 21st centuries.


Drawings of Marc Miquel, Laia Chiamorro, Maloles Jynwell, Sara Bou, Miquel Ángel Valls, Lorena Ojeda, Guille Cerezo, Harou Maud, Mohamed Asttaf, Doina-Alexandra Serdeluc, Pilguie Morena, Carlos Jain, academic course 2019-20

Álvaro Siza, *Casa de Tê Boa Nova* (1963)

Physics II
Department of Physics, Section ETSAB | PHY

COORDINATOR M. Dolors Martinez
LECTURERS Alexí Alvarez, Arantxa Alonso, Oriol Batiste, Francesc Fayos, Fidel Franco, Jelena Nikolic, Jaume Roset, Ramon Torres

Physics II belongs to the ensemble of basic subjects included on the propaedeutic module of the first year. It aims to provide applied knowledge of the basics of physics in building services and environmental conditioning (light, sound and hygrothermal). It stresses the need for sustainable use of the energy resources involved in conditioning architectural spaces. Buildings need to provide comfortable environmental conditions for people and, simultaneously, be suitable for the functions they have been designed for.

Here we present the graphic academic materials that illustrate the contents which are developed over the course: the hygrothermic control and the use of the psychrometric chart, the evaluation of heat loss in housing and the role of doors and windows as passive elements in the conditioning of a building; the perception and propagation of sound, the reverberation phenomenon, and acoustic conditioning; radiation and the greenhouse effect; light and the lighting of the space…

Basis for Technique
Department of Architectural Technology | TA

COORDINATOR Belén Onecha
LECTURERS Iker Alzola, Amaya Caballero, Laura Granell, Daniel López, Jordi Morros, Jorge Portal, Anna Ramos, Javier Sanz, Marc Seguí

Basis for Technique considers the materialization of architecture through the study of the principles and elements of architectural construction, as well as their relationships, according to these premises:

How architectural construction principles affect decision-making in projects
How the elements of the repertoire of our closest context can comply with those principles
Exhibition of cases and examples of relationships between principles and elements
Adaptation to the space ≜ Of the exterior
Adaptation to the environment ≜ Of the envelope
Integrity ≜ Of the structure
Production ≜ Of the compartmentation
Aesthetic convenience ≜ Of the building services
Conditioning and Services I

Department of Architectural Technology | TA

**COORDINATORS** Carlos Alonso Montolio, Helena Coch Roura
**LECTURERS** Lluís Ferrer, Rafael García, Judit López, Juan Antonio Marín, Anna Pagès, Xavier Solsona

Conditioning and Services I studies the physical, physiological and psychological principles of environmental conditioning, the behaviour of the building in relation to the lighting, thermal and acoustic environments: its general aspects, systems and parameters of evaluation.

The subject studies the natural means and introduces the artificial means of environmental control and building services. This will give the student the knowledge and skills needed for the analysis and drawing of architecture taking into account the energies present in its surroundings.

The aim of the first part of the course is to learn the essential physical, physiological and psychological principles that regulate energy and environmental processes, as well as an organized conceptualization of the lighting, acoustic and climatic matters in architecture, both within the natural and artificial environments.

Throughout the second part of the course, we deal with the historic and cultural side of this topic, based on the understanding of the environmental phenomena that define the architectural surroundings.

In the third part, we work on the techniques for environmental control, from the more general, prior to building construction, to specific natural systems that solve and improve certain aspects of its environmental behaviour. This is the core part of the course, and will allow the student to acquire the skills needed to take on an architectural project in its wider sense.

Judit Parreu, Lighting, acoustic and climatic matters in a cabin, spring term 2019-20
Design I-II (mornings)
Department of Architectural Design | AP

COORDINATOR Josep Lafont
LECTURERS Clara de Sola-Morales, Mamen Domingo, Karin Hofert, Eva Jiménez, Miquel Mariné, Estel Ortega, Mònica Tàrrega

Design I & II are conceived within the academic planning as two separate subjects, with independent evaluations, and come under the scope of knowledge of architectural projects. The current curricula allocates this subject to the second course. The similarity of contents, methodologies and dynamics tend to generate a logical academic unit that develops over two consecutive terms.

Location and construction are the engine and basic notions that will be developed throughout the course, and that will generate tools and mechanisms with which the project can be studied and understood. But not only these, use and livability too will give sense and set the tone of the course.

Two exercises are undertaken in each term. The following aspects will be explicitly covered in them:

Study of the relationships with the location: visual, pragmatic, cultural, etc.
Layout of a floor plan of a certain complexity based on use, and the spatial relationships between the rooms and with the exterior
To face the built form of architecture considering the relationships between form and matter, structure and space
To drive the use of mechanisms through which to establish operative formal structures.

Judit Martínez, Itziar Jimeno, Study of the relationships with the place, spring term 2019-20
Pau Gelpí, Toni Gual, Toni Huguet, Mediterranean identity, spring term 2018-19
Alejandro Cáceres, Residence for hikers, nature pavilion and guard house in the swamp of Vallvidrera, spring term 2019-20

Pablo Rodríguez, Residence for hikers, nature pavilion and guard house in the swamp of Vallvidrera, spring term 2019-20
**Design I-II** (afternoons)

Department of Architectural Design | PA

**COORDINATOR** Jaime J. Ferrer  
**LECTURERS** Luis Ángel Domínguez, Manuel Gómez, Karin Hofert, Feliu Llobet, José Ramón Pastor, Jordi Roig, Sergi Estrella, Aina Marquès (teaching support)

The course looks into the essential notions of construction and location, which are central to architecture and hence, the pedagogic foundation of this subject. The localization and positioning of the project within the specific conditions of the place (Topos), the requirements of the layout (Typos), or the structural solutions (Tectonica) will place the student simultaneously in front of all the aspects faced by architecture that define its form and the form of the spaces where human activity takes place.

The exercises, set up in preexisting structures, go into depth in the topics that architectural projects need to resolve in their relationship with the place and in their involvement in the construction and definition of urban and public spaces (Topos). Similarly, they develop the internal logic behind the architectural production, simultaneously taking into account compositional aspects and spatial order (Typos) or the relationship with the constructional systems such as the attention to climatic control tools, strategies and materials (Tectonica).

Dolores Nemet, Plan, section and model of Masia de Ca N’Oriac, Sabadell, autumn term 2019-20

Situation plan of Masia de Ca N’Oriac
David Perelló, Sallorés Déu factory, Sabadell, fall term 2019-20

Situation plan

Model

Floor plans

Main section

Multiple sections and main elevation
Urban Design I (mornings)
Department of Urbanism and Regional Planning | UOT

COORDINATOR  Maria Rubert de Ventós
LECTURERS  Laia Alemany, Marina Cervera, Eulàlia Gómez, Antonio Moro, Dani Navas

The first course on Urban Design is an initiation in reasoning regarding the modern city.
The city works as an open system with dynamic relationships: between the built form and the void; among the streets, blocks and open spaces; between big infrastructures and natural spaces, that have to be articulated so as to favour good living conditions, and to tackle the challenges imposed by unequal growths and environmental imbalance.

Barcelona is the object and reference for the exercises and lessons of this course. The exercises aim at introducing the student to comprehension of the city through a material approach to specific locations within Barcelona. This will enable, by comparison, an understanding of the passage of time in the city and will also provide tools to formulate proposals and actions to improve the current urban conditions.

Rusland Kalachov, Cathedral square, Barcelona, autumn term 2018-19

Pau Gelpí, Plaça del Rei, Barcelona, autumn term 2018-19
The urban planning courses at the ETSAB are sequenced so that each course covers independent, coherent and self-contained topics, made up of a theoretical program and practical exercises, making up a block:

—The initial course is an introduction to both urban phenomena and analytical techniques, urban history and how it grows (UR1), urban planning language and the techniques for representing the elements and urban projects (UR2).

—A second course is devoted to the tools for urban planning projects: road layouts, public space (UR3), land division and building rules (UR4).

—The third course is devoted to the urban structure (UR5) and the urban project (UR6); which cover, the first on a territorial scale and the second on an urban scale, those general ideas linked to certain isolated strategic actions that give sense to the proposals.

But beyond this separation, what characterizes urban planning at the ETSAB is the effort to ensure three characteristics of the architectural object (sensuality, interscalarity and strategic vision), which make this an urban unit.

**Sensuality**

Architecture must be polite and respectful; it must be valued with the senses themselves. “The artistic implication is what sets design apart from other operationally similar processes” (M. Solà-Morales, 2005) and this is what happens when designing cities, thanks to the cultivation of a sense of aesthetics. A sense built on research and history, on a body that is always sensual like architecture and the city. Because projects (designs) are created by thinking through association with architectural, spatial, coloured and sensual images (P. Zumthor, 2010). “We must learn to see more, to hear more, to feel more” states Susan Sontag (1969). We must educate our visual memory, strengthening it, “not only with regard to capacity to retain, but with the analytical effort it entails... the analysis of the artefact must be oriented at making it experimental; it should not be interpretational, but rather eroticising... The same fruition process of the artefact should determine the method of its description and, consequently, the acquisition of its structure... The social and cultural situation of the receiver, their memory, their references, the whole context surrounding them, their ideology itself, determines different ways of perceiving and understanding the artefact and determining its significant structures”.

Ultimately, building aesthetic sense means the architect must assimilate the cultural context in all matters necessary to make the fact of inhabiting a living experience, characteristic of a time. Buildings and cities are the habitable spaces where we can identify that formal dimension typical of a cultural moment (H. Piñón, 2010).

**Interscalarity**

Good architecture has always had a great capacity to develop on very different scales. This quality has been lost largely because we are witnessing, more and more, a disconnection between the architectural project and the urban planning, between the building and the city, between covered and open spaces, between the architectural space and the public space. This causes one of today’s big problems in our cities: “architectural solitude”. A voluntary solitude that, as explained by Manuel de Solà-Morales (2009), segregates the space of coexistence and typecasts the values of our culture. This is very much related to the disintegration suffered by architecture as a profession and the manipulation of collective interest by a power that is ever more influenced by the financial market. Here I have highlighted the significance of restoring the responsibility of the architect as the builder of the city. Because architecture is the only discipline that has the mechanisms necessary to overcome this fracture and synthesize, through the urban project, this ever more exaggerated duality between the public space and the architectural form. Trust in architecture is what must lead us to value the city, to not abandon it and to understand its urban nature, something that is related to a wise game of scales (M. Solà-Morales, 2010).
Scale as the scope of relationships, as the space for interaction and not a question of size or graphic expression, makes the study of the city something intrinsic to architecture, making a city through architecture and assuming the urban nature of architecture. Shape does not have scale, “city and architecture are conceived on the same scale, in other words, they are designed so that nothing involved in the experience of space remains undefined” (H. Piñón, 1999).

**Strategic vision**

Rafael Moneo (2010), in Remarks on 21 Works, describes the project for L’Illa Diagonal, carried out with Manuel de Solà-Morales, as a strategic project, a project that landed in a type of battlefield “where you have to move and anticipate what the future will bring, the others’ moves... sensing how to defend what is built in a future that is yet to come.”

The shape of the L’Illa Diagonal building did not arise through reasoning, from an a priori typological algorithm where the functions establish conditions of neighbourhood, light or space. The shape arises from a terrain that has dilated, from a space that exceeds the physical limits of the plot, as its constraints stem from very distant scopes. This project opens itself up to a wide range of principles that interact in the lower floors, in its topography, in its façade, in its material nature. Moneo speaks, in this sense, of strategy, as a set of rules that define an open project space, and the ability to establish a gaze that anticipates the future with diverse pursuits. Therefore, it is not about defining a static, closed objective. The program is just another reference and there is no help fostered by knowledge obtained from the program of the building to be developed, nor any “typological support”.

**Towards an intense Gaze**

The praxis of architecture feeds off the baggage of a historical culture constructed through the astute and sensitive gaze of the great architects, engineers and urban planners, on the urban form materialised through their contributions. Based on this culture, students of architecture must exercise the construction of their own gaze with which to face what is urban and its project, the buildings and the city. To approach the design process from building to the territory, it is essential to construct a reinforcement with which to be able to initiate and enrich a gaze that is attentive, cultured and intentioned, but above all, urban. Because the architect must know how to make
“the effort to understand and serve cities through a devoted and interested
gaze... a cautious and attentive approach to the wealth of urban places. The
existing wealth and, above all, the possible wealth” (M. Solà-Morales, 2008).

Architecture’s scope for action is not homogenous, it is conditioned by a
many variables, the majority of which are related to the social relationships of
groups that are involved in the design process on diverse scales. We need to
learn to create a way to approach the city, an algorithm for understanding
that allows fertile interpretations of the urban reality and possible spaces for
action. It is about building the stage for the cultural urban evolution imagi-
ing the conditions of transformation and considering an open, cyclical intel-
lectual process capable of incorporating new experiences and knowledge.

The relationship between architecture and urban planning requires a design
process that encourages interaction between the analysis and the project,
in which the context “as text and not pretext” makes “...The urban planning
and architectural interventions two inseparable sides of a same coin that
from the specific urban structure that holds them must be understood from
its reference to a global city project” (R. Moneo, 2010). Works of architecture
do not belong to their authors, the architects; they are part of historical
Cultural heritage of society (R. Moneo, 1994). The city is presented as an
“unfinished text”, a game board where the architects intervene in the course
of history, disappearing afterwards and leaving the “game open” to whoever
takes over the task of constructing the city. (R. Moneo, 1985).

Architects, responsible for the design of the spaces of collective interest
creating relationships between them, must be very aware of urban planning
in their training, not as a discipline associated with the planning and man-
age of the city and the territory, but rather as a project space within the
architectural design process. This process links analysis and project, architec-
ture and urban planning; and aims to achieve the three fundamental qualities
mentioned: sensuality, interscalarity and strategic vision that will allow an
integrated design of the spaces to thus achieve maximum inhabitability:

Sensuality for finding the correspondence of shape and materials between
the buildings that are constructed or coincide at a certain cultural moment
and the city; interscalarity to establish the necessary correspondence among
the different scopes of social relationships; and strategic vision to select the
elements necessary to transform a place into a habitable space. These three
characteristics justify the fact that we must speak of the city to be able to
apply ourselves to our architectural projects regardless of their size.

I would like to finish by highlighting that only the dialogue between build-
ings from the aesthetics, the scales and the strategy make it possible to
construct the city and that this necessary dialogue (B. Zevi, 1981) makes it
essential for the architect to have strong urban training. And for this I will
use, as others before me have already done, a text by Italo Calvino (1983) as
a metaphor, suggesting that the reader replace bridge with city, stone with
architecture and arch with city planning:

“Marco Polo describes a bridge, stone by stone.
- But which is the stone that holds up the bridge? - asks Kublai Kan.
- The bridge is not held up by this stone or that one, responds Marco, but by the
line of the arch that they form.
Kublai was silent, pondering. Then he adds:
- Why are you telling me about the stones? Only the arch is important.
Polo responds:
- There is no arch without stones.”

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Urban Design II  (mornings)
Department of Urbanism and Regional Planning | UOT

COORDINATOR  Eulàlia Gómez Escoda
LECTURERS  Laia Alemany, Eduardo Cadaval, Àlex Giménez, Dani Navas, Quim Rosell
WEB  https://urbzineblog.wordpress.com

The second course on Urban Design at the ETSAB focuses in the study of the different areas of the city. It proposes a way of analyzing and understanding the city based on ‘A theoretical study of urban growth’ (Les formes de creixement urbà), a theory developed at the start of the 70s by Manuel de Solà-Morales, founder of Barcelona’s Urban Lab (Laboratori d’Urbanisme de Barcelona, LUB).

The city’s physical form is determined by geography, big infrastructures, singular pieces and the various urban fragments that make it up. History, demography, activities and flows explain immaterial phenomena that characterize the city.

Lectures on theory on Thursdays will present several projects of city growth up to the 20th century and interventions on urban regeneration, densification and degrowth over the 21st century. On Fridays, at the studios, two exercises will be developed: the first on the understanding and representation of different cities worldwide; and the second on the analysis and urban intervention in part of Barcelona.
Urban Design I (afternoons)
Department of Urbanism and Regional Planning | UOT

COORDINATOR Jordi Franquesa
LECTURERS Montse Torras, Anna Majoral, Antonio Moro, Antonio Font, Álex Giménez

Urban Design I aims at introducing the student to the “reading” of the city, as only by understanding its functioning and its diversity will we be able to intervene in it successfully and accurately. To do so, we propose examining its components, and to understand their singularity and characteristics as well as their interrelationships.

At the end of the course, the student will understand what each of these components contributes to the complexity of the city, and be able to read it from a clearer perspective. This will give them the tools and, more importantly, the judgement to be able to intervene in it.

The course is organized around three topics: streets, squares and the built form. We devote approximately 4 weeks to each of them, and each one of these components of the city will entail a specific exercise.

Meritxell Martínez, Gràcia Squares, autumn term 2018-19

Alex Samsudean, Júlia Pardoc, Unit and interaction: Gran de Gràcia and Córsega Streets, autumn term 2018-19

Alex Samsudean, Júlia Pardoc, Unit and interaction: Gran de Gràcia and Córsega Streets, autumn term 2018-19
Urban Design II (afternoons)
Department of Urbanism and Regional Planning | UOT

COORDINATOR Jordi Franquesa
LECTURERS Anna Majoral, Melissa Peso, Aurora López, Antonio Mora, Mario Jiménez

Urban Design II aims to study the complexity of the city from a wider perspective, taking into account the relationships between its different components and the definition of the urban fabrics, their singularities and diversity. Hence, the focus is set on the study of the morphology of these fabrics, especially those of the historic districts, suburban areas, expansion districts, residential areas, and the fabric of detached single-family housing, although we will also look into more contemporary fabric typologies.

The course considers the analysis and study of cities and how they grow, understanding the city as a combination of formation processes that often generate a morphologic mosaic in the city. We analyse a first period that covers the preindustrial city, and a second, on the industrial and postindustrial city.

The subject is organised around 4 exercises developed by different teams of students, mainly, during the 3-hour studio sessions on Fridays. These sessions are complemented by the 1-hour sessions on Thursdays of variable format: they can either be theory-based or supplementary activities depending on the contents that unfold throughout the course.
History I
Department of Theory and History of Architecture and Technical Communication | THATC

COORDINATOR: Enrique Granell
LECTURERS: Guillem Carabí, Manel Ferrer, Carolina B. García-Estévez, Guayente García-Sanmartín, Julio Garnica, Juan José Lahuerta, Elena Trius, Álvaro López (teaching support)
WEB: http://www.spanisharchitecturenetwork.upc.edu

History I presents, for the first time, the most important works of architecture that defined the models and collective imagination of contemporary architecture. A linear history that researches the constants of every production: the complexity of time and context, the intellectual ownership of its authors or developers, the commitment to the city or lack of it, as well as the relationships between idea, structure and form, space and materiality, ornament and order, sequence and assembly, some of the topics that present a European history in their evolution.

Using the well known saying by Marcel Duchamp: in advance, en retard, works such as the Parthenon, the Pantheon, Saint Sophia, Aquisgran, Chartres, San Pietro in Montorio or il Campidoglio are just a few of the synthetic examples.

The training sessions test this methodology in two tempos through two exercises. The first one, The Model as an Idea, introduces students to the study of architecture and its analysis as a means of writing, it brings the languages of the past closer to contemporary digital forms of expression. The second one, Visual Atlas, places architecture in time, through its models, citations and cross-disciplines such as the arts, the city or the history of ideas itself.

Thomas Jefferson, Library at the University of Virginia, known as the Rotonda (1822), autumn term 2018-19

Alia Bennani, Alba Bullich and Emmanuel Durand, The Palace of Charles V at The Alhambra (1527), autumn term 2018-19
Visual Atlas for Giovanni Benincasa's Piazza del Plebiscito, Naples (1846), academic course 2018-19

Visual Atlas for Gunnar Asplund's Library at Stockholm (1924), academic course 2018-19
About the Utility and Inconveniences of Historic Studies to Architecture

Julio Garnica
Assistant Professor, Department of Theory and History of Architecture and Technical Communication, THATC

Or, in other words, even as a question: Why initiate students in the historic research and critical interpretation of architecture? Here and now—Barcelona School of Architecture, 2020—with the syllabus at hand: to teach how to analyse all fundamental buildings, texts and works of art of the past which constitute the models lying beneath the works of contemporary architects.

But, let’s start from the beginning. If we endorse the words written by Herodoto 2,500 years ago in the prologue of his famous—and said by many—first History, we could agree that ‘history of architecture’ is all research intended to avoid forgetting with time the works of the architects and, particularly, avoiding the lack of renown of important and remarkable buildings and the reason why they were built. Therefore, it seems that, since antiquity, the true account of events played out allows to reach certain degree of knowledge.

Also, for the Roman Cicero: Historia magistra vitae et testis temporum. Therefore, it is not strange of his contemporary Vitruvius, to whom we owe the triad firmitas, utilitas, venustas (still—please, do not feel awkward—architecture’s ABC), to declare with naturalness in his Ten books on Architecture that an architect “fasting in the knowledge of history would never be able to give explanations to whoever would ask for them”, about, for example, the curious marble statues in the form of women that, dressed with capes, hold the entablature of some Greek temples. Now we all know, obviously, that they were the unfortunate Caria maidens, made widowers and prisoners by the Greeks after their own people betrayed them by allying themselves with the Persians, and petrified ever since for posterity as a reminder of the inflicted punishment. During the medieval “winter”, our text sleeps protected by the thick walls of the monasteries till the spring-like Bracciolini, among others, recovers it beside many other classics, as well as another humanist with whom we are much more familiarized, Leon Battista Alberti, architect, rewrites it: De Re Aedificatoria, “About Building”, “About Architecture”... By way of Gutenberg, from the end of the 15th century the first Latin editions move around and in a few decades the translations to Romance languages become popular, so useful to their contemporaries.

Every time with less faith and more reason, during the Renaissance starts up the current passion to coordinate the past and the future through historical studies. Is it not the objective pursued by the architect Giorgio Vasari in The Lives of the Artists? Or the painter Bellori in the Baroque period? And we could also mention the archaeologist Johan Joachim Wincklemann from

the revolutionary 18th century... if, even the engineer Choisy had the need to explain, at the end of the 19th century, through some diagrams in the form of an axonometry—as unexpected as elegant—all that derring-do of les Égyptiens, les Romains, les Bizantins, etc. in his Histoire de l’architecture.⁶

So, before the indispensable historians of art between the 19th and 20th centuries, such as J. Burckhardt, H. Wölflin, A. Warburg, E. Panofsky, E. Gombrich... (at the end of the day specialists and, therefore, part and parcel in this matter), were the painters, the archaeologist, even the engineers, in reality, the first ones interested in the history of architecture... How come could not be convenient for the students of architecture to know that same history? Let’s think about the most recent one, for example: Would we understand the Modern Movement without the codes provided by N. Pevsner, S. Giedion, B. Zevi, L. Benevolo, M. Tafuri, among many other historians that assumed the responsibility of the architectural narrative of the 20th century?

This is probably not the place to develop a thorough path through the historiography of architecture, but it may be, however, the right occasion to remember, in the first place (and following F. Nietzsche when he cites J. W. Goethe’) that, against what many may think, the history of architecture is not a distraction for dilettantes at leisure that walk through the garden of science. Updating his words, it is neither a luxurious article, or the cultural varnish of a professional practice. On the contrary, history is needed for life and action, because it is not antiquarian neither sentimental, is a critical history that has to do with each and every one of us: How are architectural desires born? How are the techniques experienced in each moment in time? Is it possible to describe the mental mechanisms of construction? Or analyse the representational systems themselves?... in the understanding (getting over old controversies) that history is written with a capital H and a lowercase h and that, together with the big generalist conclusions, it is also necessary to discover those forgotten matters that never stood out, and those many other peripheral phenomena with which to enlighten a discipline that, as we know, carries contradiction in its own wing (Form or function? Structure or decorum? Pilar or column? etc.).


If we move, once and for all, from muses to the theatre and we finally roll up our sleeves... in the first place we need to describe the object of study, being it a building, an architect or a period... In this phase, the visit to the site is a must. Where is the site? In its location, its measurements, its materials; therefore, we have to measure, note down, draw... But the work is also in many more documents that are stored in archives (historical, administrative, popular), in the books lined up in shelves of libraries and, more and more, in new formats kept on the web (at this point, The Web). This is a tireless research in which the use of resources allows to distinguish the roll of one’s voice and organize the bibliography: manuals, monographs, magazines, etc.; a task for which we have a treasure within our grasp: the patrimonial collections of Gaudí Chair, the Graphic Archive of Barcelona School of Architecture, the antique funds of the Oriol Bohigas library and the Manuel Ribas special collections, from where we can caress with the tips of our fingers five centuries of books, drawing plans and documents... only a hundred meters away from the last station of Barcelona’s underground Line 3.

Next, it would be appropriate to analyse, given that architecture is indeed made of dimensions and materials organized around a structure and coordinated through some constructive techniques which always arise from a motivating force, and deliver a specific meaning. From the general to the particular, is about putting all the spatial concepts into play: circulation, the program’s layout, internal relationships, design process... To move closer from the widest possible vocabulary allows to accurately identify all the elements: Which is the horizontal structure? And the vertical one? How are the façades? And the roof? And the light? And its ambiance?... Next, to relate the topics: to establish differences and similarities, determine contrasts and continuities... always in a meticulous, orderly and clear manner... without giving up any valuable graphic format, notes or references. Nothing is useless in this task of pulling the yarn of time, our form of scientific evidence. Why there? Why that way? Why at that moment in time?... as always asked himself and asked us Fernando Álvarez (Bahía Blanca, 1952 – Barcelona, 2020), who we miss so much.

And finally, it is necessary to interpret the architectural reality. The student needs to be able to establish a momentary conclusion (always open, never definitive) of a novel character. In which format? Written, and we can call it essay; graphic, and it can be a visual atlas open to all possible classifications, and even spatial. If what matters is to explain things to oneself, why not choosing the scale, material, colour, texture and brightness, and treat oneself to a critical model made out of the same substance whose knowledge we are pursuing?

Against amnesia, we assert that the works explain their period and that the period is explained through its works. Architecture is design in the present and into the future, but—far from a servants’ attitude—it is supported on the past. Who does not like, as L.I. Kahn does, the Beginnings? Only in this way can the good buildings emerge from memory, after a long delay. With this praxis, little by little, slowly and carefully (chronological order, bibliographic rigor, respect for the sources) we have verified that information can be transformed in a kind of knowledge from where to aspire to wisdom. Or, said in the language of the cathedrals’ times: Historia magister vitae... from apprentice to tradesman, and from tradesman to master.
Architectural Representation I
Department of Architectural Representation | RA

COORDINATOR Galdric Santana
LECTURERS Oriol Ribó, Quim Moya, Rafael Mur, Marc Roca, Lluís Giménez

Architectural Representation I is a core subject of an instrumental character but, at the same time, it aims to promote action in the understanding of space through geometric control and three-dimensional constructive operations. Its contents and methods stem from the traditional subject in polytechnic schools, since their origin in the 19th century, known as ‘descriptive geometry’. This content has been essential in civil engineering and architecture, where they have historically prevailed and evolved to a greater extent than in other engineering studies due to their application to architectural representation, stereotomy, etc.

The current contents of the subject cover geometric control through infographics, using virtual modelling, with the knowledge and use of curves and surfaces defined by means of NURBS (Non-Uniform Rational B-Splines) type entities, with special emphasis on quadratic b-splines.

Structures I
Department of Architectural Technology | TA

COORDINATOR Agustí Obiol
LECTURERS Lucrecia Calderón, Alicia Huguet, Antoni Ortí, Carlos Muñoz, Laura Valverde

Structures I is the introduction to the world of structural analysis and design, even though Physics I already covers the first concepts in relation to the definition of reactions and stress diagrams of the simplest porticoed structures. Keeping in mind the elementary nature of the subject, it strongly focuses on the understanding of two essential concepts: geometry as the mechanism generating stresses within the structure, and global and partial balance as a basic tool to determine them.

Through the activities carried out by the students in the classroom (that amount to more than 50% of the time allocated to the subject throughout a good deal of the course), we aim to help them understand that the geometry strongly defines the behaviour of the resistant structure, on a global, basic or sectional scale. We also aim to make them understand that numerical procedures of geometric analysis are just the algebraic aspect of the geometric behaviour observed, which is based on the state of equilibrium sought by the system.

Plant and elevation of a concrete tetrapod for the formation of breakwaters

Benjamin Baker, cantilever bridge human model for the design of Scotland’s Forth Bridge, 1890s
Construction I
Department of Architectural Technology | TA

COORDINATOR Josep M. González
LECTURERS Pilar Giraldo, Estefania Martín, Jordi Morros, Oriol Paris, Lara Sierra

Within the framework of the learning process of construction technology, this subject aims to help the student understand that technology is a fundamental part of the project, and that the relationships between technology and project are evolving. It will also deepen knowledge of the subject matter itself.

The student will acquire the technical ability and skill to:
- Know and distinguish the different techniques used on site for the various materials.
- Identify the typological characteristics of the most common construction systems for structures, façades and roofs.
- Propose material characteristics and basic techniques to build the abovementioned systems.
- Critically evaluate the above proposals to guide and justify project decisions.
- Propose solutions for singular situations within the constructive systems studied, for housing block projects.

In sum, students will learn to apply their technical knowledge to the project to define the general characteristics and basic solutions related to the most common structures, roofs and façades.

Analysis of the external wall of La Clota house, Enric Miralles & Benedetta Tagliabue, Barcelona (1997-99)

Detail of Travertine House, Gordon Bunshaft, spring term 2019-20

Geometry of the steel structure of High performance Equestrian Center in Ultzama (Navarra) by Francisco Mangado, spring term 2019-20

Júlia Rami, Arnau Alberich, Pol Mateo, Eric Moya, Industrial Center in Bergell, Studio Maurizio, spring term 2018-19

Detail of Travertine House, Gordon Bunshaft, spring term 2019-20
Architectural Representation II
Department of Architectural Representation I RA

COORDINATOR  M. Isabel Ruiz
LECTURERS  Carles Ferrán, Jaume Gimeno, Quim Moya, Isidro Navarro, Jordi Subirós, Francesc Valls

Architectural Representation II is oriented at the interpretation of the available graphic documentation of a proposed building, through the analysis of architecture that is built but cannot be visited. The aim is to attain its comprehension and hence, to be able to represent it.

The means used in this learning process is graphic, through digital tools. We consider architectural drawing the language that allows us to read, interpret, learn and understand architecture, but also to write, represent, express, create and draw it.

Therefore, the subject proposes, on one hand, applying manual methods (with which the students are already familiar) to their progress towards the comprehension of the architectural space and, on the other hand, it proposes an initial approach to BIM methodology, to go in depth into the virtual process of architectural representation and construction.

The teaching methodology focuses on the differentiated phases of the representation of a contemporary building of trustworthy quality, on which information is handed to the students. The course is based in the virtual modeling of this building through the analysis of the interior and exterior architectural spaces, as well as their interrelationships and constructional definition, to then work on the different projections and views to shape its representation.

Exercises from Alberto Campo Baeza’s Turégano House, 1988

Marco Antonio Olivera, Elevations, academic course 2019-20

Lorena Sánchez, Floor plans, academic course 2019-20

Judit Parreu, Exploited axonometry, academic course 2019-20
**Structures II**

Department of Architectural Technology | TA

**COORDINATOR** Jordi Maristany  
**LECTURERS** Cesc Aldabó, Jorge Blasco, Lucrecia Calderón, Roger Sehis, Laura Valverde  
Group taught in English available

The calculations and sizing of reinforced concrete, as an essential material in the building sector, must undoubtedly be present in the teaching of architecture. It is especially important to teach architects how to size structures, not just calculate them.

This is why the course is focused on the calculation and sizing (with students working in pairs) of a whole structure of a real building made of reinforced concrete. The aim is to understand how floor slabs, columns, beams, foundations, etc. behave, taking into account the way they influence the final building design at all times.

The course is organized in various stages. Firstly, several lectures seek an understanding, from a global perspective, of the behaviour of this material. Then, theoretical lectures provide the tools needed for the following practical classes on the calculation of the building structure.

All of this leads to the final defence of the building structure by the students, accompanied by a calculation report as well as detailed drawings of the structure based on the results.

*Bounded plant of the negative efforts, academic course 2018-19*
Design III-IV (mornings)
Department of Architectural Design | PA

COORDINATOR  Alberto Peñín
LECTURERS  Olga Felip, Eduard Gascón, Ramón Godó, Judith Leclerc, Julio Mejón, Mara Partida
Group taught in English available
INSTAGRAM  @catedrablancabcn

Trade, social responsibility and a sense of place.
These are the three axes that structure this course, through which we aim to definitively awaken the architectural consciousness of the student. Housing cannot be understood just by the specifications of a program, but as a synecdoche of Architecture: a program that gives a base and sense to the profession, that not only builds cities but also the future of our architects, and that is particularly difficult.
A sense of size and measurement, social dimension, technological accuracy, and commitment to the environment are topics that students develop in two situations: in a dense city, in a multifamily housing block, and in the territory, in a residential unit supplemented by collective spaces.
This second scenario makes it possible to explore the relationship between man and nature, to understand architecture from the standpoint of the inhabitant, through the construction of a personage, and going into greater depth into the scale of the work. The course evolves from inside to out and vice versa: from inside to out, working on a project without context (an exercise of discipline gymnastics), and from outside inwards, analysing the void and the city; finishing with a studio format lecture series of collective built.
Annia Figuerola, Housing in Pere IV Street, academic course 2018-19

Site analysis

Section

Collages

Ground floor

Constructive section
Design III-IV (afternoons)
Department of Architectural Design | PA

COORDINATOR  Pere Joan Ravetllat
LECTURERS  Jordi Badia, Pau Bajet, Carles Enrich, Josep Ferrando, Marta Peris, Pablo Roel, Xavier Ros
INSTAGRAM  @housingandcity

Design III & IV are devoted to housing, probably the first and most direct architectural knowledge that everyone experiences and one of the programs that most contributes to the definition of cities. The evident closeness to most of its concepts helps achieve an initial affinity with the topic. Also, its domestic nature allows known and feasible starting points from which to go into greater depth into more elaborated considerations.

The place: as in previous years, we will work on the same site over the first and second terms. In this case, we want to analyse the Parc de la Ciutadella and its relationship with the Eixample and the waterfront. We propose studying the coliving program, understood as a program where living quarters are mixed with those intended for work and social leisure.

Carlota Gala, Pablo Castillo, Modular forest in la Ciutadella, autumn term 2018-19

Artur Roig, Martí Pardo, Residence in la Ciutadella, autumn term 2018-19
Nuria Rodríguez, Irene Preciado, Residence in la Ciutadella, autumn term 2018-19
Urban Design III (mornings)
Department of Urbanism and Regional Planning | UOT

**COORDINATOR** Julián Galindo (2018-19), Ángel Martín (2019-20)
**LECTURERS** Eduardo Cadaval, Stefano Cortellaro, Xabier Eizaguirre, Alex Giménez, Jorge Perea
Group taught in English available

This course aims to reflect on the renovation of public spaces in compact cities as a strategic means of urban transformation within the metropolitan environment: streets, squares, gardens and collective spaces.

The course objectives include the analysis of open spaces, public spaces in general, from the stand point of reflection on spaces devoted to mobility and flows, as well as those collective spaces that citizens use to relate, exchange, communicate, etc.

Urban Design III is the first course to study specific proposals of transformation, after two courses on Urban Design as an introduction to the city and its territories. The course is dedicated to projects on the street and the square as basic elements for the construction of cities, and reflect on their main characteristics, nature, use and dimensions. We concentrate on the most significant examples, theories and references in the history of urban planning.

Urban Design IV (mornings)
Department of Urbanism and Regional Planning | UOT

**COORDINATOR** Julián Galindo (2018-19), Joan Moreno (2019-20)
Group taught in English available

This course focuses on the role of the residential project in urban renovation and the definition of urban fragments aimed mostly at residential uses, understood as ensembles with the capacity to form urban spaces and orderly identifiable architectural sequences.

This is achieved by combining the compositional elements of the urban form (streets and open spaces, plots and buildings) according to the typical logic, mechanisms and compositional tools of this type of intervention. It is done by drawing the lines that define the layout of streets, the categories of public spaces, the use of the land, and the positioning of buildings.

In this context, the aim of the course is the control over the configuration of the urban space in residential areas based on the project, as well as the knowledge of the various tools and elements that shape it, their logic and their relationships.
Urban Design III (afternoons)
Department of Urbanism and Regional Planning | UOT

COORDINATOR Ángel Martín
LECTURERS Oriol Clos, Purificación Díaz, Joan Florit, Mario Jiménez, Rosina Vinyes

The course aims to initiate the student in projects for streets and public urban spaces.
Hence, the teaching of the basic theories on the matter, as seen in the subject curriculum, is combined with learning about the tools and their practical application to real cases, focused on the progressive introduction to the design of streets and urban public spaces.
These practical exercises are developed on a nearby site that students can visit and analyse as needed. A project for a public space on the site is proposed, lasting approximately a month and a half. The exercise is developed in different phases, with various presentations.
Also in phases and related to the above project, a new project for a boulevard and its associated road is proposed for an exercise that lasts around two months. A joint visit of students and lecturers to the urban site is organized at the start of the course.

Urban Design IV (afternoons)
Department of Urbanism and Regional Planning | UOT

COORDINATOR Francesc Peremiquel
LECTURERS Jordi Bellmunt, Purificación Díaz, Montserrat Torras, Rosina Vinyes

Urban Design IV is one of the core subjects on urban planning in the Architecture degree at the ETSAB. It proposes a project on a residential urban fragment.
The objective of this course is to introduce methods, tools, and some useful references to draw up the project for an area of mainly residential urban fabric.
The methodology is introduced with the dynamics of the exercise, starting with the analysis of the site, the definition of its program, and knowledge (through the analysis of themes and proportions of some renowned references). The course advances with structural and compositional solutions (general plan and volume of the built form), to clear the way for discussion on order and design (general and detail sections). Finally, an urban itinerary is developed to illustrate the character of the proposal (perspectives from the pedestrian’s point of view).
The course is supplemented by a series of support lectures on three topics: a block of analytical, contextual and programmatic questions; a second that reviews the residential urban project over time, with a thematic rather than chronologic reading, and a third on useful tools for urban planning, premises, typologies and manuals.
History II continues the analysis of architecture from the previous year, this time
applied to the 19th and 20th centuries through different areas of knowledge, and as
successive approximations to the discipline: history, philosophy, drawing, construction
and urban planning.

It is a short but intense period of time (1851-1988), when realities and problems
arose that persist to the present day. The study of architecture is transformed in the
material and intellectual production of a time that demands a more accurate interpre-
tation of the facts.

Students devise a critical discourse in which history acts as a generator of a creative
attitude, always conscious of where the origins lie. With small variations in method-
ology between the morning and afternoon lectures, we aim, as Bruno Levi stated,
to think architecturally; to interpret the works not only as reading material, but also
graphic and audiovisual, including three-dimensional models of architectures built
or imagined over the last two centuries, renewing them poetically, and reflecting on
their sense and value.


Mónica Cárdenas, Deutscher Werkbund, spring term 2019-20
Architectural Representation III
Department of Architectural Representation | RA

**COORDINATOR** Ernest Redondo
**LECTURERS** Francisco Javier González, Pau Majó, Anna Mañosa, Albert Sánchez, Francesc Valls, Héctor Zapata

Group taught in English available

The course is organized in three blocks of exercises:

First block. Photomontage of architectural elements in a real urban setting on top of a photograph. Control over the point of view, the sunlight over the scene, and the materials on the virtual scene. For the final submission of this block the student must use two different rendering engines.

Second block. Visual simulation of a modified urban ensemble. Management of the digital model, the atmosphere and visual daytime/nighttime simulation. Section of the ensemble, and renders of the working process and final presentation. For the final submission of this block the student must use a minimum of two different rendering engines. The section of the model does not have to include textures.

Third block. Realistic visual simulation of an interior or interior/exterior space from the previous urban scene, properly furnished. Precise simulation of the various materials, sources of light and surroundings of the scene. For the final submission of this block the student should preferably use a physically-based rendering engine, and achieve the highest quality in the resulting image.

Mònica Piqué, Elevation made with Artlantis, academic course 2018-19

Visuals made with 3DSMax
At Barcelona School of Architecture, the teaching of Architectural Representation, differently from the rest of the country, is compulsory in each and every of the years of the degree in architecture, even in the various master’s. This gives the School a differential trait, beyond the propaedeutic or introductory values for the training of the future architect. Being taught in this manner, it has to cohabit and dialogue in a natural way with project work, urban planning projects, technology, theory & history, etc. supplementing each other. Very different things have to be taught to a 4th year student than those of a 1st year one. 1st year students need flexible, fast and intuitive graphic systems, tools and methodologies to encourage their creative process. Older students need more professional contents and lecturers, the very latest concepts and methodologies explained by experts.

The current teaching syllabus of the Department of Architectural Representation in Barcelona School of Architecture is organised as follows: 2 compulsory courses in 1st year, Drawing I & Drawing II, according to the official naming. The contents include traditional disciplines of the topic, such as architectural drawing, analysis of architectural forms and a bit of descriptive geometry essentially freehand, but also backed, when needed, by computer technologies. These are supplementary courses that run all along the school year at a rate of 1 weekly session of 5 hours. This gives the lecturers great scope for action, and also a nimbler connection with the other three courses of the year, because their contents can be extended throughout the others as the schedules are different. The added value here, besides a greater crosswise and multidisciplinary teaching, is the introduction of the student in the knowledge of the place and the city through urban sketching and co-creation, which are very well connected with the urban planning project and the teaching in the format of supporting workshops, introduced in our school in parallel to Drawing I & II starting with the courses Bases of Project Work I & II.

In 2nd year, the teaching is also divided into 2 compulsory courses: Architectural Representation I & II, triannual courses taught twice a week in 2 hours sessions (4 hours per week). The 1st course teaches Descriptive Geometry using a variety of specialized computerized means, focusing on the study and practice of 3D modelling of geometric forms of clear interest and relevance to architecture (without overlooking the academic tradition, but with a modern tone). Architectural Representation II focuses on virtual modelling of architectural models and their integration into the architectural data management systems such as BIM (Building Information Management), for the analysis and construction of current single-family housing projects of educational relevance. Both courses share the teaching space with Project Work I & II and Architectural Technology (Construction I & II), which stress the same topics.

Architectural Representation III is taught in 3rd year, also a triannual course taught twice a week in 2 hours sessions. It works on the visual simulation of urban scenarios and multifamily housing blocks through digital rendering techniques and virtual simulation by means of an array of computer apps. Here, the educational objective, and this is its fundamental added value, is to provide the student with a critical and crosswise perspective of the various existing apps, developing real case studies to create, from them, studio or working simulations useful to the design phase—over those of final presentations with a commercial interest—and sharing synergies with Urban Planning and Project Work III & IV, which stress the same topics.

Architectural Representation IV, the last graphic course of the degree, taught in last year, has its added value in the teaching of Parametric Design on the basis of the study of cutting-edge architectural projects and constructive proposals.
In this sequence of courses: Architectural Representation I, II, III & IV, there are lecturers that are university researchers, but also high-level professionals that contribute their working experience and their capacity of constant updating of contents; a very agile and active flux of knowledge that allows the constant updating of the syllabus, from society to university and vice versa.

So far, this is the status of the issue. We do not talk about the wide variety of the degree and master’s elective courses, and those of the various master’s of advance studies taught at Barcelona School of Architecture and the Polytechnic Foundation (FPC).

Let’s move to critical review now. As a result of the current planning, developed not without difficulties, it is clear that the official naming of the field has become obsolete. We need, at least at an intellectual level, to seriously think on renaming the traditional fields of this area of knowledge. It does not make any sense anymore to talk about Architectural Drawing, Analysis of Architectural Forms of Descriptive Geometry, neither does it of hand free teaching as opposed to computerized teaching. We should, maybe, talk about Architectural Geometries, just to name one example. In our School this has been outdone as, within the public schools of architecture of our country, Barcelona Tech schools are almost the only ones compulsorily incorporating graphic information technology in all the Department contents. We are one of the few with presence and teaching in the qualifying university master’s degree and the degree final thesis, excluding the presence in the committees. That allows our lecturers to permanently check and review the degree of understanding and academic usefulness of the Department contents.

As disciplinary reflection attached to this text, and with no intention whatsoever of starting an argument with the rest of the graphic community of the country, we can define 4 types of architectural drawing: the first one being the ‘Ideation Drawing’, that which serves thought, exploration through one’s own trace or stain, in communion with one’s own mind and sensibility in a process triggering architectural forms. A second one being the ‘Expression Drawing’, where stain and colour express ideas about the light and appearance of the forms. The third one would be the ‘Representation Drawing’, standardised and technical, that includes classic representation systems such as the traditional technical drawing, CAD, BIM, but also parametric design, architectural surveying with laser or photogrammetry, etc. And the last one would be the ‘Simulation Drawing’, that can be realistic and achieved through renderings, videos, physical animations, lighting or thermal simulations or simulations of fluxes of air currents or structural resistance, Digital twins, etc.

This new conceptual structure goes beyond the current courses and its educational development needs to be crosswise and multidisciplinary, with the teaching shared by several departments in the form of workshops or experimental labs. Only in this way would we be efficient, productive and motivational, combining intuition and reasoning, technique and sensibility, expressiveness and accurate methodologies, intentionality and social usefulness. This has to be our educational strategy for the future and our move: to share interests with the lecturers of the rest of the departments.
Construction II
Department of Architectural Technology | TA

COORDINATOR Oriol Pons
LECTURERS Jordi Morros, Gemma Muñoz, Oriol Roig, Gerard Torrent

This course is specialised in the construction of the greater part of the building and its relationship with its project drawings. The general purpose of the subject is for the students to learn about construction as the process through which architects materialize their drawings or digital models of the project. In other words, to understand the importance of incorporating the constructional aspects of the project throughout the design process.

Taking these aspects into account not only makes the building construction possible, but also improves the final result. In this sense, this course analyses case studies where the constructional aspects have been taken into account during the design process, instead of bringing them together once all the decisions had already been made.

Accordingly, the buildings studied have had a much easier and sustainable construction process, with improvements in the work site management and the architectural form, among others. The specific objectives of the course are to gain the knowledge and skills needed to:

- Draw architecture taking into account the foundations, structure, and retaining walls, which are the main part of the works.
- Identify the systems and building elements of these construction phases, and to know which of them are more appropriate for various theoretical and practical cases.
- Develop constructive solutions for the construction phases of various theoretical and practical cases.
Conditioning and Services II

Department of Architectural Technology | TA

COORDINATOR Félix Pardo
LECTURERS Ainar Bilbao, Eva Crespo, Ricard Muros, Gerard Torrent, Santiago Velasco

Group taught in English available

The aim of this four-month course is to provide students with the basic knowledge on climate control, security and other building services for a housing block, so that they are correctly integrated within the architectural project. Thus, students must be able to choose the most suitable system in each case and make the necessary provision for the space needed, the conditions of the route, the easement of passage, its appearance, and the usage requirements, among others.

Additionally, the course provides students with the criteria to solve design and measurement issues as well as the development of the plans for each of these services.

Emmanuel Durand, Toni Huguet, Arnau Toscano, academic course 2019-20

Pau Negredo, Gerard Domingo, Joan Mayor, academic course 2019-20

Exhibition model of The systems of the human body and urban systems, Disseny Hub Barcelona, 2016.

Carazo, Cuesta, Urpi, academic course 2018-19
This course focuses on explaining how various complex structural typologies work, starting from steel structures. It is an advanced course on structural knowledge, once students already know basic analysis methods (Structures I) and how to deal with concrete structures (Structures II). It covers more complex aspects focusing on relevant typological examples, such as high-rise structures, the influence of seismic movements, or the behaviour of two-way concrete structures.

An important part of the course is devoted to explaining how to design steel structures according to Spanish and European rules, and their consequences at typological level.

The teaching combines theoretical and practical sessions. In these sessions, students put specific aspects into practice, always including calculations.
Urban Design V (mornings)
Department of Urbanism and Regional Planning | UOT

COORDINATOR Carles Crosas
LECTURERS Marta Bayona, Álvaro Clua, Sebastià Jornet, Manuel Ruisánchez
BOOK RE-MIX: Urban production landscapes

The course focuses on urban regeneration projects on an intermediate scale. Through the review of some of the lessons from the "urban project", we discuss and propose some interventions for the transformation of urban fabrics with certain potential or difficulties of interest.

The aim is to learn the terms and tools to develop mixed urban projects within consolidated areas where the policy is not tabula rasa but to weight the value of preexisting components of the fabric, taking into account the chance to update with new diversified and flexible programs that combine residential, production, services and leisure uses, open spaces and public premises; new projects and layouts that take shape not just by using urban planning tools (parameters, standards, and urban coding) but also through the architectural forms of their main elements. The interrelationship between supplementary design scales (from the building to the city) and the programming, in terms of the timing, people involved and changing needs, is a key factor in the discussion of the proposals.
Miquel Pérez, Miguel Pifarré, Sabadell Oest in transition: new cycles for old industrial spaces, autumn term 2019-20
Urban Design VI (mornings)
Department of Urbanism and Regional Planning | UOT

COORDINATOR Maria Rubert de Ventós
LECTURERS Marina Cervera, Stefano Cortellaro, Joan Florit, Sebastià Jornet, Manuel Ruisánchez

The last course on urban planning of the degree aims to tackle fundamental questions of contemporary urban planning through a complex exercise to transform a central urban area. In this course, the work area proposed is Barcelona’s waterfront, from the freight terminal El Morrot to the Besòs river. This space is highly attractive for the city; therefore, it is exposed to a large demand resulting in remarkable imbalances and, thus, a multitude of situations to be resolved.

The physical opening of the city towards the sea during the 80s meant a qualitative change that positively affected Barcelona, offering its citizens a new leisure space and, at the same time, promoting a new kind of tourism that put a lot of pressure on the area.

The industrial/port waterfront was transformed by different initiatives and interventions with various levels of scope and magnitude, building the large beaches and esplanades that would become a great new square for the city.

This whole waterfront, rebuilt in phases over the last 40 years, is currently waiting for a new adaptation.

Arnau Pros, Enric Pulido, Oriol Riera, Miquel Sarquella, academic course 2018-19

Sections of Dromo: Barcelona Litoral

Plan and concept of Dromo: Barcelona Litoral
Urban Design V (afternoons)
Department of Urbanism and Regional Planning | UOT

COORDINATOR Estanislau Roca
LECTURERS Tonet Font, Manuel Julià, Aurora López, Miquel Martí, Daniel Mòdol.

The course is clearly focused on project work. It entails essential immersion in the knowledge acquired in the previous years that, added to the theoretical and practical sessions of this year, is key to reflection and decision-making throughout the project, to globally address a complex urban problem.

The scale of the project is somewhere between architectural definition and urban planning. It is an urban space of delimited dimensions with the will to invest in city architecture, independent of buildings. The objective is to achieve a thoughtful project that could be materialized in a short period of time, with a lot of character, and the ability to question the surroundings. Therefore, it does not end with its perimeter but reflects on its influence on the regeneration of the surrounding fabric. There is often a remarkable public component in the financing of the program of these projects, as well as a notable proportion of collective uses.

The content of the course can be summarized in these basic topics:
1. Urban and public space projects as a category of city projects
2. Urban remodelling projects within the built city.

Glòries Square, Barcelona, academic course 2018-19
Urban Design VI (afternoons)
Department of Urbanism and Regional Planning | UOT

COORDINATOR Ferran Sagarr (2018-19), Julián Galindo (2019-20)
LECTURERS Tonet Font, Manel Julià, Dani Mòdol, Victor Ténéz (2018-19);
Miquel Martí, Dani Mòdol, Manel Julià (English), Victor Ténéz (2019-20)

Urban & Metropolitan Places
(La metròpolis dels llocs: cantonades metropolitanes)
The subject, the last one on urban planning at the core of the degree curricula
of Barcelona’s School of Architecture, aims to work on strategies and projects on
a local scale, through a reflection that incorporates the metropolitan area.
To identify places that can become strategic fragments able to aid the transfor-
mation of the metropolis, and to demarcate units of project work, are two
defining factors of the metropolitan planning review, as has been done through-
out the 20th century.
The acknowledgement of territorial, urban and architectural facts is the first-
step towards the sustainability of the projects that concern them. On the other
hand, the continuous evolution of metropolitan urban facts makes the projects
richer and more complex, as the time factor is needed to identify them as land-
scape, historic, architectural or urban heritage.
In support of the citizens’ collective memory, how this heritage is treated is key
to building citizenship. The inevitable involvement of the various people involved
makes the structural changes understandable and helps to break the projects
down into programmable units. The course aims to develop proposals on sites
with the opportunity and potential to be transformed.

Anna Badia, Rut Cabrero, Laura Piazzi, Ricardo López,
Roots: union of fabrics at the estuary of Llobregat river, academic course 2019-20

Eliana Pérez, Lluís García, Proposal schemes of Green structure, academic course 2019-20
The course follows the historic paths covered by reflection on occidental arts and architecture. The aim is to show a temporal image of the ideas that accompany architectural production, and to recognise the identity of an artistic culture in the presence of other possibilities of understanding techniques, abilities, knowledge and symbols in the realm of the production and transformation of the environment.

The course follows the educational ideas of the current concept of art and the continual creation of a theoretical image of architecture that belongs to the history of our culture.

We follow the historic development of the ideas that substantiate our constructive activity, those that make it technically possible, next to the ever-present horizon of utopias and ideals that try to improve the conditions of the world we inhabit and build.

We focus on the past of these processes to become aware of the strength of the cultural transformation that the passing of time entails, and to understand the changes in today’s idea of architecture.

Finally, we explore the current situation of architecture, between artistic and technical production, in particular the positions taken when faced with the demands of the various societies.
What function should a theoretical approximation—a theory—have in the architectural studies? To answer it we might need to explore our history.

Theory, as the antic world conceived it, was understood as a form of seeing, of contemplating. This use is attributed to Plato’s texts in the first place which, in our alphabet, was transliterated as theoria, a term that expresses intention, a form to direct the gaze towards the truth. Theory is a gaze that pleases itself in pure knowledge, far away from praxis. A term that, as explained by Hans Georg Gadamer in Praise of Theory, in the Latin language was translated as contemplation (contemplatio), a word maybe more eloquent than ‘theory’ (in the Romance languages) due to its proximity to the Latin root. Theory, in this Platonic context, represents not only an attitude but a time: a time of contemplation that stops and opposes the occurrence of action, a moment that has the power of stopping activity precisely to contemplate that action, to consider its relationship with the truth. Theory also represents a direction: it is about gazing towards something. Because all gaze is directed towards an object, whatever it is, an object the gaze tries to take in. Theory is not a void gaze, an absolute stillness, but a gaze that looks for something that can be the action itself or, in other words, the nature of the work resulting from the action.

In addition, in the context sketched out by Plato, theory supposed a way of living, a way of living different to that committed to action.

But this original meaning belongs now to a very distant past, even if it constitutes the foundation of our tradition of thought, called the Greek fountain by Simone Weil. Much more than two thousand years separate us from the time Plato wrote his dialogs. A time abyss. That world is very far away from the beginning of this millennium, shaken by what starts to be seeing as the decay of a civilization, of our civilization, for many reasons. Despite that distance, the fracture between making and thinking, between creating and contemplating, between action and meditation, continues to be clung to our present culture, as it prevails in our language. The shadow of this difficulty to reconcile theory and practice drags on still. The antic world did not know how to ease the merge of this polarity, and this fracture has left its footprint in our thought. Somehow, it has been a long time trying to reconcile those two moments that, without a doubt, should merge to uplift the world of art and that of architecture.

Those arts called liberal—practiced by free citizens—did not represent in subsequent centuries what the term ‘art’ means to our time. The arts called that way represented forms of knowledge, and maybe even production, but did not relate to handcrafted creation, they were not technical arts. Mechanical arts were the first ones to insinuate, in the system of knowledge classification, the place occupied by architecture in the system of knowledge. The history of these classifications of arts, sciences or technical abilities is long and somehow reflects in its evolution the position of every knowledge in the society, its status and relevance. They did not express the meaning of these disciplines. The comparison between painting and poetry—plastic arts and the art of language—mentioned for the first time by the poet Quintus Horatius Flaccus (Horace) in the 1st century B.C. as parallel, was taken up by Leonardo da Vinci in his notes about art to protect the status of the art of painting in his time, between the 15th and 16th centuries. Even then, when the art was brilliantly placed in the centre of life, the status of the painting, the arts of design, seemed to be sullied by the discredit of technical work. The dignity of the arts, claimed by craftsmen and architects, meant not only a social claim but also a claim for the consciousness of their contribution to knowledge, of their positioning for knowledge, for their right to create their own theory, as shown by the formulation of treatises that guided the architectural creation at the same time that reflect on beauty, truth, or harmony in the world and the laws of nature.

The art—the arts—had to wait till the Romantic era, the last decades of the 18th century and the first ones of the 19th, to establish themselves as forms of knowledge fully accepted. A knowledge that was not only practical, but truthfully theoretical. The art—following the path of poetry—is discovered, in this time of exaltation, as an activity able to lead the thought, to produce
thought, at the same time as it infuses life and reality to the artistic object. The rest of the artistic forms followed the path of poetry and music: the plastic and technical arts, the most material arts, were included in that territory opened by the Romantic era. The art was not only an issue of the great philosophy—since the end of the 18th century—and the nascent aesthetics, that is, an object of its reflection, but it erected itself in a form of thought. The art opened paths of sense, logic, it pointed out the possibilities of being of the things made by hand, close to the words weaved by poetry. Material and poetic arts got closer precisely because they pocketed the understanding of their meaning in a definitive manner. In this period, the art also deserves a space in a philosophy of history, as the one that can be read at Lectures on Aesthetics by Hegel, written by his disciples. Architecture, involved in the history of the spirit, has its space as expression of time, not just as material work.

20th century avantgardes received a lot from this conception of art that comes from the late Enlightenment and especially the Romanticism. Architecture took part on this process of global renovation of art defended by the avantgardes: at all times, from this chapter of exploration, architecture produced its own thought, explained its reasons, elaborated its desires for the future. This process of self-affirmation of an art such as this of architecture continued echoing in the collective conscious since the beginning of the 20th century. There is no need to remind the endless pool of resources that the avantgarde arts, as well as the architecture of the interwar period known as Modern Movement or the architecture that continued showing its fruitfulness after the end of World War II, has meant to our capacity of reflection and our creation. Both dimensions of the task taken over by architecture should start to be seen, from now onwards, definitively undivided.

Architecture continues to be possible as an art and as a theoretical discipline as it studies its own function in society, recognizes its position within the knowledge, and decides its future. Thereby, the arts were the ones to shape up their own meaning. We should recognize this gesture of appropriation of thought as one of the greatest achievements of the architecture that now questions us from our immediate past.

It would then be more difficult to defend, not just the capacity to theorize of architecture but the possibility of a practice of architecture that ignores the thought, that is unable to look at itself. It would be inappropriate to understand architecture as a practice that continues dividing action—creation—from reflection. It would be terrible to defend a practice of architecture that denies thought as we currently understand it, that denies the capacity to question ourselves about the things we do, of its ethics and also its aesthetics, or about the use and impact of the technique it applies.

Theory is not only a luxury, is a need that arises from doing which needs to be present in the creation of architecture and all the various actions that currently emerge from this training. Architecture faces many new situations besides the construction of buildings, urban planning and restoration: its capacities are applied to other matters related to life, society, even politics. Architecture deserves to be present in the political and social decision-making processes, it has to take responsibility for the problems of the saturated and hyper-constructed space, the lack of habitat, and the accommodation of collective shared spaces by a more egalitarian society. In none of these situations can we afford an architecture that does not carry the power of thought, that does not embrace the power of expression of words, that does not take responsibility for the critique before its own behaviour, as well as social critique.

Nowadays, in all likelihood, the theory which in the Greek past expressed a moment of contemplation has been diversified and has gotten involved with many other issues, following the momentum of the knowledge that leads to the truth. Barcelona School of Architecture has given space to that way of understanding the theory a long time ago. It is no longer a static knowledge, an ornament for a profession that seeks to reach a prestige in the cultural realm: the theory we currently teach in our department is linked to the problems of society, it is involved in the thought of the technique, with the knowledge of its power and its risks, it is involved in the commitments for the preservation of the Earth. Our courses touch all these issues in their sessions. But the division between the theoretical sessions and the workshops—where we work in the production of projects or in planning, or even outside the technical lessons—does not mean they are not interconnected. Theory is being developed hand in hand with those workshops. In a parallel manner, during the workshops there is also a time for contemplation, for thought, for a gaze that merges with the produced object: how could it be otherwise?

At Barcelona School of Architecture, it has been a long time since the courses we call theoretical are involved with creation and try to build bridges between a complex and ever-changing exterior world outside and the practice of that creativity. It could be the case that the theory’s function of connection between the reality of the world and the architectural creation is its true destiny.
Construction III
Department of Architectural Technology | TA

COORDINATOR: Cristina Pardal
LECTURERS: Iker Alzola, Isabel Bachs, Ignasi Gutiérrez, Jordi Pagès, Mar Pérez, Oriol Roig
INSTAGRAM: @filters_and_facades

The course aims at broadening knowledge and going into greater depth in building envelope systems (facades and roofs) and the compartmentalization of spaces (partitions and linings), using dry construction in all cases. During the course we pay special attention to the technical specifications of materials and systems. We aim to train students to make decisions on the most suitable systems, techniques and materials for a specific project of an envelope or internal space. We emphasize the importance of understanding construction as a project tool. In no way is the constructive definition at the service of a predefined project, but it is part of the strategies used to develop the project.
The aim of the course is to train students to conceive, calculate, design and integrate in buildings and urban settings the implementation of electrical building services for interior and exterior lighting, as well as heating, ventilating and air conditioning (HVAC).

Likewise, we pursue knowledge on priority services such as those of fire protection and accessibility in public spaces and premises, as well as appropriate knowledge on ecology, sustainability and conservation principles for energy and environmental resources in relation to the 20-20-20 scenario. We aim to promote the attitude and skills needed to provide passive environmental conditioning, acoustic and thermal insulation, climatic control, energy performance and natural lighting on premises and in the city.
Design V-VI (mornings)
Department of Architectural Design | PA

COORDINATOR  Elena Fernández Salas
LECTURERS  Jordi Adell, Eugeni Bach, Imma Josemaria, Ignacio López, Martí Sanz
WEB  https://pvvietab.wixsite.com/home  INSTAGRAM  @pvvi.etsab

This course, divided into two terms, belongs to the 4th year curriculum of the Degree of Architecture. Due to its ‘positioning’ just over half way through the degree course, we address a fortiori the “architectural project” as the melting pot of knowledge acquired over the previous three years.

After three years of essentially propaedeutic study, this process of intertwining disciplines is addressed from an experimental standpoint with the aim of developing and consolidating the tools used by each student in their project workflow, whether practical or reflective. Therefore, we no longer work from the binomial standpoint of location and program; we work from spaces altered by a series of circumstances typical of our time.

This academic year 2018-19 has addressed a current problem: the city’s “touristification”. A topic that has been developed over the two terms.

The autumn term was strategic, a period that made it possible to dig into the different ways to graphically understand reality and value these results by proposing various lines of action through “operational cartographies” that helped the student define an architecture and its uses.

During the spring term, we went into more “matters of the trade”, developing and defining “the construction of the architecture proposed” with the preparation of graphic and written documents at the level of “working plans”. We believe that, even though we took some risks, the results of this course have been very positive because, as well as guaranteeing the competencies required by the academic curricula, students have learned to face the project from its own wording, which they will need to master in the working market.
Multiple floor plans
Design V-VI (afternoons)
Department of Architectural Design | PA

COORDINATOR Berta Bardí, Félix Solaguren-Beascoa
LECTURERS Luis Alegre, Cristóbal Fernández, Gustau Gili, Ignacio Martínez, Carles Vinardell
BOOK Chambord 1519-2019: utopia at work. Architectural projects of Château de Chambord
INSTAGRAM @projectes_vvi

The courses focus on thinking about buildings and public spaces from the relationships they determine with the location, the technique and the program. They do this with a high level of construction, structural and energy definition. Usually, the worksite is Barcelona or its metropolitan area, at least during one of the two terms. We normally work on reuse or intervention on built heritage or structures with large spans, modular systems and prefabricated or industrialised construction. If we work on built heritage in one term, in the second we propose a new built form with a series of technical and programmatic requirements related to collective use.

From this general statement, we aim to take on reprogramming in relation to the surroundings and the user profile, an intervention on the built heritage, and research on new challenges faced by the profession. Likewise, we aim to boost the creative, communicative and collaborative skills of students by encouraging teamwork, an aspect that is linked to the new ways of working in the construction sector, with delocalized labour force structures, interdisciplinary work, and commissions that are highly open to participative processes.

In general, in the first term we tend to reprogram and intervene on heritage, and in the second we work on a newly built form with a specific structural requirement. In particular, this first term we entered the international competition “Chambord inachevé 1519-2019”, with some other 19 schools of architecture worldwide. A utopic project was suggested for the future of Chambord castle on the occasion of its 500 anniversary. During the second quadrimester, we worked on urban mobility through 4 mobile houses placed in the Barcelona Metropolitan Area’s plots.

Field trip to Chambord Castle

Structure density of the southern facade

Constant presence of the castle
Axonometric view of the relation between the castle and the structure

Transversal section through the castle
Architectural Representation IV
Department of Architectural Representation | RA

COORDINATOR Andrés de Mesa
LECTURERS Gustavo José Nocito, Adrià Marco, Joaquim Narcís Moya

The course aims to embrace knowledge of those geometric relationships that emerge from architectural design and shape the structure that defines its final form. Its main tool is parametric design, based on the development of complex forms, from geometry and numerical systems. The interaction between these two fields, aiming to achieve the final forms of architectural design, takes places through visual programming systems. Thus, through an orderly sequence of data, the tool makes it possible to relate, in a dynamic manner, the basic structure that defines the form of any kind of architectural design to the development of any of its parts, which aids its final definition.

The course is based entirely on exercises and assignments from a list of topics of differing complexity with specific examples of the design of objects or elements that belong to the architectural realm.

Topics on urban furniture make it possible to develop forms through the control of lines and polylines, profiles, extrusions, vectors, the orientation of profiles...

Topics on urban spaces for leisure and rest allow application to the form: modular structures; definition of nodes; repetitions; series and ranks; lists of items, longitudes, and partitions; the control of sequences on a list...

Topics on stairs develop the form from modular repetition with the control of its height, calculations on risers and steps, control over limited developments, geometry and orientation of the steps, landings...

Topics on windows make it possible to develop forms from a rectangular and linear support matrix, the control of lists of lists (trees), the definition of panels of a rectangular base, the transformation of rectangular panels to other forms...

Júlia Duran, Parametric design of an urban plaza, academic course 2018-19
Construction IV
Department of Architectural Technology | TA

COORDINATOR Cóssima Cornadó
LECTURERS Ramon Gumà, Estefanía Martín, Pere Santamaria, Marc Seguí, Sara Vima

The course, the last one on construction of the Degree in Architecture, is focused on the analysis of and intervention in pre-existing buildings. It is organized in a series of theoretical lectures supplemented by a practical exercise developed throughout the course.

The contents of the course focus on the technological knowledge of pre-existing buildings: their diagnosis from the point of view of safety and pathologies, their behaviour in relation to energy and comfort, as well as restoration and intervention techniques; in sum, tasks belonging to the refurbishment trade.

The practical exercise, implemented in groups, applies all the knowledge accumulated during the course. The groups will work on a pre-existing building with a significant degree of deterioration. Students will have to analyse its construction, to diagnose the damages, and propose the repairs/reinforcement/refurbishment needed.

Laia Bolaix, Gonçalo Dargent, Arnau Guinart, Paula Sanfelix, Mas d’en Gassol, fall semester 2018-19

Material characterization and constructive system
Structures IV

Department of Architectural Technology | TA

COORDINATOR: Albert Albareda
LECTURERS: Jaume Alentorn, David Garcia, Jordi Maristany

This course is the last one on structures of the Degree in Architecture. It covers the design of foundations and the understanding of the behaviour of the soil as a component of our buildings. The contents place a special emphasis on the interaction between building and soil, and the influence of the foundations on the architectural design.

The students acquire basic concepts and principles that allow them to design foundations under various circumstances and, at the same time, they learn different mechanical behaviours from the various soils (cohesive, grainy and rocky). The last part of the course is devoted to interventions on pre-existing buildings such as repairs on foundations, reinforcements, soil consolidation... Students also learn the procedure and methodology that should be used to diagnose and write a report on damages resulting from the foundations.

To do so, the course is organised in theoretical and practical sessions, some of which are experimental so that students understand first-hand essential behaviour such as pressure, soil consolidation, or the influence of water.
“Structural conception is not a discipline to help architects, it is architecture in itself”

Frank Lloyd Wright’s work is a magnificent example of how architecture goes hand in hand with structural conception. Although it was the Czech civil engineer Jaroslav Josef Polivka who finally calculated the reinforcement and performance of the structural elements in the Guggenheim Museum in New York, this building would not have been possible without Frank Lloyd Wright’s strong structural vision.

Wright started studying engineering for two years in Wisconsin, but he quickly realized his conception of structures was deeper than what he was being taught. Structural challenges are architectural challenges, and he started a brilliant career as one of the most influencing architects of all times.

Barcelona School of Architecture is widely known for the quality of its architectural postulates thanks, in part, to the weight of technological topics in its syllabus; technology understood as architecture in itself, and being part of the global discussion until the final defense of the student’s projects. To that end, the School includes a serious and dense amount of contents about quite engineering-oriented topics, but always from the point of view of architecture. As Wright, we deeply believe that a strong knowledge in structural design—seriously treated—is a must-have skill for disruptive architects.

The conception of architecture totally changed with the irruption of reinforced concrete and flat heavy slabs during the Modern Movement. All the features of reinforced concrete allowed architects to forget about geometry when designing structures, unlike what they had been doing for the last centuries. Arches and vaults were no longer needed to cover spaces, since both steel and reinforced concrete gave the possibility to avoid geometry thanks to their mechanical features. This fact changed architecture forever, and we are still followers and disciples of that huge revolution even nowadays.

Nevertheless, current global requirements set by the UN for the 21th century, based on sustainability and efficiency, consider architecture as one of the sectors to develop. Part of the goals refer to sustainability in terms of efficiency of façades and systems, and others also in terms of materials and the design conception itself. The use of materials is increasingly analysed and optimized and geometry will play a significant role again, obviously helped by all the newest computational tools.

Technological scholars (all of them, also architects with different specialties) usually take part in the discussion of structural conception in Design Studios from the very beginning. Students are motivated not only to integrate structural conception into their designs, but also some calculations and validations using the knowledge acquired in basic courses.
The goal is for architects graduated from Barcelona School of Architecture to always be sensitive to technological issues when designing. This fact improves their skills and makes them more versatile with realistic designs. Structural courses in Barcelona school of Architecture start with a general analysis and continue focusing on reinforced concrete, steel typologies and soil mechanics and foundations. Students are oriented to be able to design and analyse basic structural typologies such as concrete slabs and steel trusses or frames. These skills ensure a fast and clear definition of the typologies involved in the design process.

Likewise, technological aspects appear even in conceptual models of student’s projects, with a clear definition of systems and hierarchies. The skill to determine the size and performance of structural elements enables better architecture and, of course, more realistic buildings.

The main challenge for the next decade in the teaching of structures in architecture lays on explaining the same technical knowledge hand in hand with its practice in design studios involving sustainability and optimization in the roots of the design process. Detailing of systems and elements should go together with structural conception, and although specialization will continue to be necessary, scholars will need a clear vision of the whole picture.

To teach structures in a School of Architecture, it should be mandatory for most of the lecturers to be practitioners as well, to be able to explain which are the real determining factors during the design process, and which are the red lines. Structural analysis may be taught theoretically, but structural design requires practical and real experience.

No need to mention the significance of previous experience when teaching, in simple timber models, work site visits, and others. Materials behave differently and show different applications so, the best way to control them is to have worked with them previously. There is no better process to learn than experiencing or practicing, especially in those disciplines based on skills over knowledge.
Theory II

Department of Theory and History of Architecture and Technical Communication | THATC

**COORDINATOR** Pedro Azara
**LECTURERS** Saray Bosch, Juan Ramón Cornellana, Mónica Sambade, Tiziano Schürch, Helena Cepeda (teaching support)

Theory II is a core subject that replaces the former ‘Aesthetics and Theory of the Arts’. To theorise means to look carefully, a gaze that embraces how a piece of art (or architecture) presents itself and shows content that needs to be decoded (accepting that we will never know what the piece really communicates, if it does convey any content).

Its aim is to study how we relate to artistic creation, through culture and time; how we evaluate, judge or criticise it (criticise in the sense of isolate and discern). The course is divided into four parts: what is (artistic) creation; how, when and where do we come into contact with it (or how it presents itself to us); which conditions need to be fulfilled so that the relationship makes ‘sense’; and what can we expect from this confrontation, that is, what are the objectives of this creation?

Theoretical lectures are supplemented by practical lectures and exercises where we are invited to look carefully at our everyday surroundings, to distinguish rules and ‘signs’ that influence or guide us.
Visiting Studio I - II

Department of Architectural Design | PA

COORDINATOR: Alberto Campo Baeza
LECTURERS: Antoni Barceló, Anna Ramos (seminar)
BOOK: Alberto Campo Baeza, ETSAB Visiting Studio 2018-19

This exercise focuses on the intervention on a public space in Viladecans, a town within the Metropolitan Area of Barcelona. The construction of a public space with a library (6,200 m²) and a sports centre (6,000 m²) is proposed on a site where an intervention has already been implemented, the Parc de Can Ginestar. There is a country house on the site, Can Ginestar, that has to be incorporated into the intervention.

The aim of the course is the development of a unifying intervention on the site with the established programs. The first, the library, will be developed on plot I-2 on estate B, and the second, the sports centre, on plot I-1 on estate A. The park on estate C is recent. One of the two programs will be developed once the urban coding is completed on a scale that allows the definition of each of the parts of the program.

COORDINATOR: Javier Garcia-Solera
LECTURERS: Cristina Gastón, David Hernández-Falagán (seminar), Javier Presa (teaching support)
INSTAGRAM: @visitingstudio

The exercise was developed in the Moll de Pescadors area, within the port of Barcelona, a place that accommodates the activities of the city fishers’ union. Up to now access was limited to fishing professionals; it was inaccessible to the general public. The exercise proposed the inclusion of a building accommodating temporary lodgings for a minimum of 50 people, in groups of one to five, as well as the layout of new exterior spaces allowing public access to the clock tower.

The diverse lodging options had to functionally cover the need for a combination of programs (lodging and work), so as to satisfy the complete spectrum of social realities. The accommodation had to be of a social nature and be managed by the city council in collaboration with the port. The exercise was developed independently of the current urban coding and other allowances linked to the site. The project was understood on an urban scale, and had to properly consider the importance of the new volumes in the port area, and value their effects on the close and distant surroundings. The workshop was supplemented with a seminar by David Hernández-Falagán. Javier Garcia Solera’s professional experience in port projects in Alicante enriched the workshop by sharing the possibilities for shaping the waterfront. His presence coincided with the exhibition entitled Industries at the School of Architecture entrance hall, devoted to the built works of the visiting professor. This provided further knowledge of architectonic production based on experience and constructional rigour.
Thematic Studio I - II

Plan of the medium and wide accommodations

Plan and section of the minimum accommodation

Overhead axonometry
The general idea of the course comes from the concept of responsibility. At this point of the studies at the School, the student, already an architect in many ways, has to demonstrate his/her competence when accepting responsibility for his/her decisions. These terms, even though coordinated, can be studied independently.

The work proposed for this workshop has to do with the Eixample. It influences the dialectics on block/superblock (ideal models) and suggests a discussion on the Eixample as a space for opportunities. In a city of extraordinary density, with an evident lack of open spaces, we propose seeking spaces of opportunity and an alternative mesh to Cerda’s model and its block/street relationship. We propose an alternative and supplementary mesh based on an urban structure made up of the interstitial spaces.

To define the scope of the project, we propose the space surrounding Jean Nouvel’s park on Avinguda Diagonal, and the block defined by the streets Marroc, Bilbao, Perú and Espronceda, as a starting point to broaden the concept of “urban project”. Concepts such as interstice, limit, paradox, deposited memory, stratum, trace (understood as a sign), form of the territory and orographic accident or ownership structure will become the basic vocabulary of the proposal which, through the discussion with students, will need adjustment.

Linked to this reading of the city, there is a proposal to build some kind of premises down to a scale good for detail (1/50). These premises will be related to the specific needs noted during the process of understanding of the place: to define the program, to program, to become part of the proposal.

During the second term, the exercise will be developed from program and location proposed by the student. The program will need to be accepted sometime during the first fortnight of the course; therefore, it is advisable to think about it during the first term.

The typology should be publicly/privately managed premises. It could be supplemented with a residential element.

One of the key aspects to develop over the course is the relationship between architecture and location, in a broad sense. We are not talking about the ‘site’ where the building lies but of its urban/suburban/rural surroundings with which the building inevitably interacts.

This approach and the choice of program by the student are related to the contents and objectives of the workshop Architecture & Technology I, where we talk about the architect, basically, as the person in charge. The need to think of a specific place, all of its characteristics, and the social content (program of uses) for the proposal are inevitable elements of an architect’s training.

Architecture and Technology I & II is particularly aimed at students that prefer to work in trades related to the professional practice of architecture or in research on technology applied to architecture.

One of the main specific objectives is, therefore, to contribute to the development of the students’ skills needed to satisfy the wide range of assignments and responsibilities that architects acquire in our country, without a doubt, one of the widest in the European architectural sector. Another specific objective is to offer a way to get started in the field of applied research through project work to those students with deeper academic interests. The project understood as research, and research through the project, define the academic discourse of the Architecture & Technology workshop.

As a more generic objective, Schools of Architecture must contribute not only to the training of good professionals and researchers but also to the training of individuals with critical thinking, socially committed to the construction of future cities and territories. The relationship of the studio with various institutions and social agents constitutes a strategic movement in this direction.

In this sense, the workshop Architecture & Technology I regularly develops the project in collaboration with public institutions, usually town councils. On the contrary, the workshop Architecture & Technology II systematically develops the project in collaboration with another European School of Architecture. With this ensemble of institutions, as well as companies and industries from the construction sector, the workshop Architecture & Technology establishes academic collaboration agreements through which it addresses case studies of mutual interest.

The activities of this Project workshop are organised from a communal standpoint: the pre-eminence of the context, in its various dimensions and interpretations, as a basic element of the project. Likewise, the fact that architecture (and urban planning) verifies itself in the physical world and everyday life is emphasized, realms where detail is an essential element.
Between context and detail, architecture grows on different scales, not necessarily ordered by dimensions. Context, scale and detail are, thus, elements that lead the approach to the project which we summarize below:

We support poor or developing countries, structural spaces for stable, neutral, timeless elements located in areas highly significant due to the action carried out by their surroundings and the passing of time. We come from a professional and educational tradition highly motivated by attention to context. We understand that context goes beyond what is physical. We aim to take care of the specificities of each project, their location, program, use, the consequences of the passing of time... Thus, a priori, there are not stylistic criteria but criteria for the development of the project. We propose a simultaneous approach to the various requests of the program/location. The final result comes from the negotiation between the contradictions obtained from attention to particular issues and potential general approaches.

Project and Public Space I
Department of Architectural Design, Urbanism and Regional Planning | PA + UOT

COORDINATOR Miquel Corominas, Màrius Quintana (2018-19)
Màrius Quintana, Manuel Ruisánchez (2019-20)
LECTURERS José Manuel Toral

The legibility and understanding of the city are directly related to its urban planning. We need to understand the city project from the project of the public space. The city is the place where uses overlap, conflicts converge and collective life is expressed, coming together in its public spaces; this is the reason why their design is so important. Cities are constantly being reformulated and public spaces need to be transformed to respond to new demands, new values, and new uses. Over the last decades, urban spaces have gone from being formally defined spaces, with segregated functions and clear uses, to being highly multifunctional, more versatile and very convivial. Transformation of the urban space is meaningless if it does not add value to the pre-existing site. The legibility and understanding of the city are directly related to its urban planning and architectural design of the degree by implementing all the landscaping knowledge needed to offer a comprehensive perspective of the case study. The urban potential for transformation is offering cities new opportunities to improve their adaptation to the environment, to climatic change, to human interaction, and the embellishment of their spaces, from biodiversity, energy saving, the recovery of habitats and the rationalization of uses. This workshop seeks to fill the gap in the global teaching of new tendencies in contemporary architecture, from the standpoint of sophisticated, dynamic, and rigorous work. Individually or in groups, with the support of a seminar on the theory of the landscaping project, the workshop analyses, interprets, recognizes and designs the space through multidimensional knowledge, and defines it, in every scale needed, for the understanding of the arguments and the results. Landscaping is the future of the city.

GP Architects I-II (Arquitectes de Capçalera AC)
Department of Architectural Design, Urbanism and Regional Planning | PA + UOT

COORDINATORS Ibon Bilbao, Josep Bohigas, Zaida Muixí
LECTURERS Tonet Font, Jordi Franquessa (seminar fall semester), Sandra Bestraten (seminar spring semester)
WEB http://arquitectosdecabecera.org/ INSTAGRAM @arquitectosdecabecera

GP Architects was created as an academic proposal for the action of altered education that the first OPEN ETSAAB-ETSAV entailed in 2013. We propose an equation that is committed to the path from the academic sphere to the labour market:

WAC + TTAC1 + TTAC2 + Final Thesis = Strategic Plan / Specific Projects
Students can complete the whole equation or participate in some of its parts. Each of these phases represents a clearly defined educational commitment.

In TTAC1 we consolidate first-hand contact with the location, its inhabitants and their hopes. We also add unconventional methods of analysis, implementing actions with the collaboration of the students and the inhabitants.

In TTAC2 we continue to design a viable and visible transformation in the neighbourhood, with first-hand knowledge of the social and physical reality. We take advantage of the tools of "Tactical Urbanism", creating a space for urban testing with the issues detected during the diagnosis and projects from the first term.

Our main goal is to explore the spatial and experience-related interests of the resulting design. This will simply be a basic filter between the city and its users through which to obtain maximum information and benefits from their emerging association.

Law and Management in Architecture
Department of Architectural Technology | TA

Mornings
COORDINATOR Josep Roca
LECTURERS Blanca Arellano, Alejandro Gauthier, Carlos Pérez, Ana Puig-Pey

The course aims to train future architects in aspects of regulation and management needed in their professional practice. It is divided into four areas: urban planning regulations and city management, building regulations, economic valuation, and professional practice.

In relation to urban planning regulations, and taking into account that the architects’ professional work includes urban planning aspects, management, and urban planning studies (the main activity of municipal architects), we introduce the basic criteria to guide the activity of future professionals of this specialization.

The second area addressed by this course seeks to explain the bureaucracy involved in the building sector, such as habitation certificates or building regulations.

The third area introduces the student to the monetary aspects of urban planning and building: urban planning and real estate valuation, as well as economic valuation of building work. This last aspect is linked to the technical documentation needed to draw up architectural projects: measurements and budget, among others.

Finally, the course addresses the regulations that govern the professional practice of the architect (assignments, responsibilities, professional association, etc.).

Afternoons
COORDINATOR Carles Pérez
LECTURERS Jordi Duats, Alexandre Gauthier, Carlos Marmolejo
WEB https://arqlegal.wordpress.com/

The course is structured in four thematic blocks:

Profession: fields of work for the architect, assignments and responsibilities, other agents in urban planning and the construction sector; options for professional practice, and membership of professional institutes; project documents; legal decisions and expert reports.

Legislation: diversity of legal knowledge and rules that influence architectural and urban planning projects, determining their conception, scheduling, and construction.

Management: urban planning management; planning, construction and supervision of building work, and real estate management.

Valuations: techniques and principles of real estate valuation, financial valuation of construction projects (measurements, budgets, and economic control of urban works and building construction); feasibility analysis and interactions between architectural and real estate projects.
2020 is especially symbolic in relation to the fight against climate change. Not just because the EU 20/20/20 Objectives will culminate foreseeably without success—to reduce GHGs and energy demand by 20%, and increase renewable energy by 20% too by 2020—or because the obligation to construct new buildings with an almost zero energy consumption (nZEB) comes into force, but because it marks a flex point in the social perception of the planet’s situation. And this has driven several governments to decree an environmental emergency many times pressed by civil initiatives, as those promoted by young people demanding for an inhabitable future.

Climate change, the exhaustion of non-renewable resources or the effects of human activity over people’s health have gone from being a future possibility to a reality of the present. In this sense, in a very short period of time we have gone from pretending to ‘avoid’ climate change, to ‘revers’ it and, finally, ‘mitigate’ it. The inclusion of concepts coming from ecology into architecture and urban planning such as ‘adaptation’ and ‘resilience’ demonstrate the acknowledgment of the inevitability of a deep change in the relationship of humanity with its environment.

The act of becoming aware of the environmental implications of human activity surpasses ecological militancy to become law. And this covers all levels of public administration, from the UN—2030 Sustainable Development Goals—to town halls—Covenant of Mayors—and essentially focuses on the reduction of energy consumption, pollution and residues.

In this context, the reduction of the environmental impact of the building sector needs to address its whole life cycle: the extraction of raw materials, the transformation of raw materials into constructive elements, the delivery to the work site, its maintenance and use all along its service life, as well as subsequent deconstruction and recycling, including the related phases of freight. This impact or ecological footprint, of complex quantification, is usually grouped in 4 ‘vectors’: energy—reduction of demand and non-renewable energies, on site production, etc.; natural resources—reduction of non-renewable and high-impact materials, water management, etc; users health—reduction of pollutants, of impact of built environment on people’s health, etc., and residues—materials’ life-cycle, recyclability, etc. Each of these vectors has its own indicators, the best known being the CO₂ equivalent that allows to evaluate the impact on the greenhouse effect causing the planet’s global warming.

Regulations developing these goals evolve rapidly and increase the industry and architects’ responsibility in the choice of materials and systems of environmental conditioning, and it is foreseeable, at least in the EU, that they generate an important transformation of the industrial activity in general, and the construction sector in particular. In the political real this process is referred to as the Green New Deal to evince the scale of the challenge. Its goal is to avoid surpassing a non-return point in the degradation of the environmental conditions that would question the continuity of the current society, as could be the CO₂ sewers’ saturation (oceans and permafrost). This is a process of public and private financing similar to that needed to get out of the 1929 crisis. Other sources compare it with the global expenditure conducted all along World War II which actually came after the US New Deal.

The various trades of architects influence significantly the abovementioned impact of human activity over the environment, and are developed in a context of social awareness about the impossibility to maintain current levels of consumerism in the industrialized world in a scenario that follows exponential patterns of population growth, resources reduction and pollution increase. It ‘simply’ comes to integrate the environmental determinants and requirements as basic demands of the project (this, understood as the transformation instruction of the physical reality): something present in the DNA of good architecture of all times.
Hence, efforts have to focus primarily in the reduction of the demand of energy and resources, and only then, in satisfying the demands of comfort through passive solutions. The rest of the demands can then be left to engineers through active solutions—which should be minimal, if not non-existent or negative. We can understand this concept in the form of a pyramid whose two lower thirds are the exclusive responsibility of the architect, while the upper third is shared with the engineer.

This way, the design process naturally incorporates: the external and internal environmental requirements, the goals to achieve and the strategies to get there successfully, and the solutions used and their environmental evaluation, among others. To do so, the architectural thinking has been incorporating systems of analysis of the physical reality that came from other disciplines (thermodynamics, theory of closed cycle systems, ecological footprint, etc.). And it would not be absurd to imagine that it could lead to a transformation of the intellectual mechanisms involved in obtaining the architectural form; understood as the synthesis of those matters related to location, technique and use, from a culturally significant standpoint.

This implies a pedagogic dimension not just in schools of architecture (where environmental emergency is the greatest absent in the syllabus) but also in public works. A dimension that could pass onto the society a metabolic conception of architecture, understood as the mediator between the artificial human habitat and the environment in which it is inserted.

In this context, the term ‘sustainable’, understood in its three aspects—environmental, social and economic—suffers an accelerated wear due to the spread of ‘green’, ‘eco’ or ‘bio’ products in every marketed sector—the building one included, obviously—many of which are just a Green Washing of existent products. Just the same way the Streamline increased the sale of products through the redesign of their appearance during the abovementioned New Deal.

Therefore, the nZEB concept, apparent panacea of the fight against environmental emergency, is obsolete before being used—partially because of the weakness of the ‘close to zero’ definition—health continues quite absent from regulations, and the demand of an ‘environmental budget’ (calculated in CO₂ equivalent kg) accompanying the economic budget in Euros is still non-compulsory in architectural projects.

In sum, a wide perspective on the relationship of architecture with sustainability and technique is much needed than ever before. A perspective exploring again the what—industry & product; the how—manufacture processes & delivery on site; the when—representation & management systems—and the where—innovation & improvement, teaching & research—not losing sight of the what for—comfort & global effects of local actions—and the cultural significance of architecture.

So, now would be the time to update the terms and start talking about healthy buildings with a positive energy balance (which produce more energy than that consumed), negative emissions (using materials that, as with wood, are CO₂ collectors throughout their growth) and zero residues. Only in this manner would we be able to address the humongous challenge faced by the 21st century: to comply, for the first time, with the first definition of sustainable development –1987 Brundtland Report for the UN: “Sustainable development is development that meets the needs of the present without compromising the ability of future generations to meet their own needs.”
Elective Subjects

3rd year. Housing and the Urban Setting

Autumn term
210150 Housing and Cooperation S. C. Bestraten
210176 Furniture and Architecture: From Mass-Produced to Tailor-Made J. M. Fort
210207 History of Western Art I J. J. Lahuerta
210214 Nordic Masters J. J. Ferrer
210217 Industrialized Construction and Innovation J. M. González
210218 Natural and Artificial Lighting A. Walis
210224 Computer Design and Calculation of Bidirectional Reinforced Concrete Structures L. Valverde
210228 Urban Architecture. Historic City A. Moro
210229 Field Trip to Troia P. Azara
210234 Building Communities R. D. Flores, E. Prats

Spring term
210159 Cities in History A. F. Martín
210174 Low-Cost Technologies for Cooperation S. C. Bestraten
210224 Collective Housing: Precedents, Current Developments and Alternatives J. Oliveras
210225 Architecture and Cinema A. Pizza
210255 Modelling of Curves and Surfaces A. Monreal
210256 Anthropology of the City M. Llorente
210257 Introduction to Scenography A. Ramon, G. López
210274 My Dream Home. A Study on Contemporary Collective Housing J. Coll

4th year. Institutional and Public Space

Autumn term
210166 Metropolitan Barcelona: Open Data and Digital Cartographies M. P. García
210173 Designing in Wood: Construction and Calculation J. Blasco
210209 History of Spanish Architecture (xx-xx) C. B. García, E. Granell
210211 Architectural Acoustics. Room Acoustics A. Caballero
210213 Environmental Architecture: Energy Savings J.M. de Botton
210217 Introduction to Architectural Heritage A. B. Oñecha
210242 Rehabilitation Techniques and Application M. Segui
210265 BIM Management M. I. Ruiz
210266 Interactive Urban Scenarios P. Majo, E. Redondo
210270 From Rough Material to Design with Parametric Tools M. Domènech

Spring term
210208 History of Western Art II J. J. Lahuerta
210239 Ground Architecture M. Martí
210263 Architectural Survey of the Built Heritage G. Santana
210264 Urban Notes R. de Mendonça, B. Seve
210272 To Look is to Project. The Architects and the Photography C. Gastón
210273 Space: Unity and Privacy J. M. Lafont

5th year

Spring term
210233 Architecture as Experience Seminar I I. Bachs
210234 Architecture as Experience Seminar II A. F. Martín
210240 Visiting Studio Seminar II D. Hernández
210247 Architecture and Collective Action Seminar S.C. Bestraten
210250 Infrastructure and Technic Seminar J. Blasco
210252 Program and Place Seminar II E. Bru
210254 Project and Landscape Seminar J. Bellmunt
Re-inhabiting the House and the Street

Department of Architectural Design | PA

**LECTURERS** Xavier Monteyts, Guillermo López, Nuria Ortigosa (teaching support)

**COLLABORATOR** Mónica Tárrega

Re-inhabiting entails promoting the use over the object, but it can also be understood as a critical review of architecture and how it is inhabited. The aim of this course is to help students form an opinion on existing buildings, also understanding them as the “site” for the project and to think about how to give them a new use or, simply, how to extend their useful life. The course will help provide them with the instruments to intervene in existing works.

The tasks proposed and the lectures of the course, under what we have called “Out of place”, aim to project, not so much the objects, but rather the actions that take place in both the street and the buildings, observing their repercussions. The intention is to reflect on how certain extraordinary experiences in public spaces and in buildings can make their attributes as public places visible.

The three exercises consist of using gold in small interventions in the ETSAB vestibule, making a paper garden in the lower ground floor 1 of the Coderch building and converting a series of Spanish buildings into paper hats with lighting and taking a walk with them between the MACBA and the COAC where they were subsequently displayed.

Cities in History

Department of Urbanism and Regional Planning | UOT

**COORDINATOR** Ángel Martín

**LECTURE** Eulàlia Gómez Escoda

The aim of this course is to provide an introduction to the evolution of how cities have been built throughout history, as a supplement to the core Urban Planning courses.

The program stresses the explanation of the fundamental variations experienced by both the nature of the urban context and the importance of ideas about the city. The course is evaluated through written tests and a monographic study (linked to the learning of the project in the city throughout history), the content of which is submitted bound at the end of the teaching period. The synthesis will be presented orally by the author, in a joint session as a supplement to the lectures of the teaching program.
New York-Barcelona: Urban Tissues Atlas

Department of Urbanism and Regional Planning | UOT

**COORDINATOR** Miquel Corominas

This course is a continuation of the subjects developed since 2010 on Manhattan and the Eixample of Barcelona. The origin of the proposal is related to the exhibitions and publications derived from the celebration of the 150th anniversary of the approval of the Pla Cerdà in 1859 and the 200th anniversary of the approval of the Commissioners’ Plan of Manhattan in 1811.

The importance of the two urban expansion areas, the similar roles they play in each city, the urban planning parameters themselves (related to housing and work) despite having a very different urban layout and constituent components, make the comparison of these two parts of the cities very interesting in terms of knowledge of the contemporary city.

The compact, high density city, with a combination of uses has become a paradigm of the sustainable city. These two areas are among the best examples of this type of compact fabric.

The main objective of the course is to introduce research, in this case on urban fabrics, infrastructures, building, and measurement parameters, as a system of knowledge and approach to the city project.

The comparative analysis of various common topics on the two cities aids the acquisition of analytical and project-related skills on aspects from the urban scale to the architectural and makes it possible to better understand the interrelation of the different scales in the city.

The course is given in seminar format. It consists of introductory classes on the two urban expansion areas, followed by a debate, and research work based on two defined topics, chosen by the students: on the architectural planning of the block and the activities, and/or the urban planning parameters that define the urban fabrics.

CAD Management

Department of Architectural Representation | RA

**COORDINATOR** M. Isabel Ruiz Castrillo

**LECTURER** Jordi Subirós

The CAD management course is based on the advanced management of a complex project, collaborative work in a digital environment and the presentation of the results.

The project chosen is the urbanization of Torre Valentina, Sant Antoni de Calonge, Girona 1959, by José Antonio Coderch de Sentmenat, which was never built.

All students work together, organized in groups, in both the prior analysis and the definition of criteria and their use, sharing the digital material generated throughout the process of representation. For this everyone will have to work with the same CAD program.

The presentation of the results is the most subjective part of the work and it is organized in various levels, from the whole to the details, with the graphic composition and design elements that give it its own personality.
Designing in Wood: Construction and Calculation

Department of Architectural Technology | TA

**COORDINATORS** Jorge Blasco, Antoni Ortí
**LECTURER** Joaquín Montón Lecumberri

This course is the optional part of the theory of structures field that incorporates timber as a construction material, its design and application in structural calculations in building.

The course will provide knowledge of the material, durability, calculation and development of the structure and its joints, through theory and practical classes and a study project; the final submission will consist of a dossier (made up of: preliminar plan, project, predimensioning, calculation and verification of components, design and calculation of joints, photographs of the model); a horizontal DIN-A1 summary of the exercise and a model.

Thanks to the existence of an agreement between ETSAB and the Gremi de Fusta i Moble (Association of Wood and Furniture), the students on the course will participate in the competition for the best project-exercise of the course, with a judging panel made up of the Dean of the School, the President of the Gremi, the Head of the Department of Architectural Technology and the course lecturers, with a week-long public exhibition in March of the current academic year. The best two projects will win a study grant.

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Nordic Masters

Department of Architectural Design | PA

**COORDINATOR** Jaime J. Ferrer
**WEB** https://maestrosnordicos.wordpress.com/

The aim is to provide students with architectural knowledge through the exemplary works of Nordic architecture and enable them to reflect and to aid them in the project process, and to give them, in time, the critical ability needed to develop the architectural project in the course of their studies.

The venue, the light and the materials, the constructive refinement, the material integrity and the geometric simplicity establish a combination of rigor and sensitivity that characterizes the work of the Nordic masters and focuses the content of the course.

The course, theoretical and practical, includes a dynamic articulation between the documentary classes, the research seminars held throughout the cycle of conferences and the tutored work of the students and the public presentations of the results.

In terms of method, the completed analytical drawing constitutes a formal appropriation through the meticulous study of the reference work. Redrawing becomes not only an instrument for recording reality, but also a mechanism for shaping the gaze and consolidating the architect’s artistic sensitivity.

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Dagmar Allender, Sarah Guinchard, Design of a Wooden Tower, academic course 2018-19

Diego García: Hugo Harmia, Woldemar Baeckman, Helsinki School of Business and Economics, Helsinki, Finland (1941-50), autumn term 2018-19

Olga Martín: Osmo Lappo, Militar Sports Center, Kajaani, Finland (1962-64), autumn term 2018-19

Roberta Itfolde, Marta Serrano: Temppeliaukio Church, Helsinki, Finland, (1968-69), autumn term 2018-19
Interior Architecture
Department of Architectural Technology | TA

COORDINATOR Xavier Solsona
LECTURERS Carlos Alonso, Helena Coeh, Judit López, Cristina Pardal

The course studies the complexity of how architectural environments work in relation to the design aspects that comprise them.
The objectives include: understanding the requirements of the different areas of buildings according to their uses, both those anticipated initially and those that might have to be included in the future, in a likely change of use.
Considering its design and execution affects matters of construction and materials, as well as function and comfort.
Defining the design criteria of the environment for a specific use, based on case studies:
Analysis of the functional and comfort needs, and the resources used to achieve suitable levels
Description of the construction systems, materials and building services; equipment, furniture and services that characterize the environment.

Territory and Landscape
Department of Urbanism and Regional Planning | UOT

COORDINATOR Marina Cervera, Pepa Morán
INSTAGRAM @territori_i_paisatge

The principal objective of the course is the introduction to landscape architecture from a project-based approach to the discipline. The contents have a theoretical and practical approach, based on the analysis of a specialized bibliography and the study of a selection of the landscape architecture projects that are most representative according to the main topics studied on the different scales of the landscape, from a large scale to small.
Similarly, the study of two landscapes is proposed, one on a large scale and the other on an urban scale, introducing project-based reflection and analysis of the landscape, directly related, throughout the process, to the parties linked to the scope of the project.
Virtual Modelling of the Project Structure

Department of Architectural Technology | TA

COORDINATOR  Jorge Urbano

Virtual modelling of the project structure is a course that provides the students with the tools to make structural design decisions, based on modelling the students’ own projects with specialized professional software.

The first step in the students’ development entails learning to “fine-tune” their initial structural design based on the deformation maps provided by the programs. In a second and third stages, the students learn to discern layouts and unions to finally generate the structural drawings that define their project. Some students use this learning to document their Final Thesis Projects.

Implementation of Parametric Design Systems

Department of Architectural Representation | RA

COORDINATOR  Andrés de Mesa

The course aims to teach the basic strategies for managing a large three-dimensional architectural model. Starting with the intrinsic limitations of conventional 3D modelling, the students are taught how object-based parametric modelling can help overcome these limitations, using a 3D system with libraries of constructively related architectural components that constitute a BIM system. (The program used to study these relationships is Revit).

The initial approach to the BIM system is made by exploring a BIM architecture model, with the basic creation and management of views for the control and representation of the model. The second approach to the BIM system is through the modification of an existing architecture model of a single-family home, studying the families of the system. Editing elements and the control of component types and families, control of libraries and edition of types are also included.

The third approach to the BIM system is through the creation of typical floor plans for a tall building. Control grids are applied for the distribution of structural pillars, vertical communication core, stairways and lifts, vertical repetition by level, application of groups to the control of repetition and design of the typical floor plans of a tall building.

As a final stage, they will develop an architectural project in groups, proposed by the students themselves, applying BIM systems. The proposal must include the definition of the load-bearing structure of the building, and there must be a clear idea of all the construction details of the building. The information to be presented must be as complete as possible. The work is focused on the capacity for collaborative interaction between various members of a team to draw up an architectural project, optimizing the use of libraries or, if necessary, personalizing them.

Architecture and Politics

Department of Urbanism and Regional Planning | UOT
Department of Theory and History of Architecture and Technical Communication | THATC

COORDINATOR  Zaida Muxí

LECTURERS  Carlos Bitrián, Josep M. Montaner
WEB  https://www.facebook.com/arquipol/

This course analyses historically and systematically the relationships between architecture and urban planning with politics and society, bringing them up to the present day, within a globalized economy and in the process of research into sustainability and environmental, social and economic justice.

These relationships are extremely complex, like a multitude of fine layers that are interrelated and where some often hide others.

The course aims to analyse some of these layers and lift them up, revealing each of the contemporary topics that relate architecture and power, urban planning and society.

The objective is to take two substantial classic concepts of human existence in society, such as city and politics, and relate them within the context of contemporary societies, in other words, the transformation of what is political into something social and cities into a metropolis. The course aims to provide a vision of architecture and urban planning from a social activism standpoint.
History of Western Art I-II
From Giotto to the Romanticism, and from Courbet to the Avant-garde

Department of Theory and History of Architecture and Technical Communication | THATC

**Professor** Juan José Lahuerta

**Lecturer** Carolina B. García-Estévez

As indicated in the programs presented to the students, the general objectives of the courses in recent years has been: a/ that students become aware of the historical, and not natural, origin of the artist and architect, as well as of art and architecture, in the context of what intellectual work means to modern society, for or against the mechanical work of craft-related traditions; b/ that students learn to analyse works of art or architecture based on their style, context and culture; c/ that students learn to relate art and architecture, theory, city and society, not in a linear sense, but instead complex and, therefore, critical; and d/ that students learn to value works of art and architecture, and the sense of the profession itself, ideologically, culturally and politically.

At the end of the respective courses, the students should be able to observe a work of art in a critical sense, frame it chronologically and historically, move within the pathways of interpretation, from the conceptual key points that the course will make clear to them. They will need to know that knowledge of architecture or art is not merely a question of taste, of opinion—which according to Hanna Arendt is the opposite of the truth—or information—which, precisely, the “information society” tells them repeatedly—but rather that all criticism is historic and all valuation of art or architecture pass through what history itself, understood as the dominant narrative, has built as a system. They need to understand that although history is written in the past tense, its sense is stated in the present. Following the plan and evolution set out in the previous sections, I have no doubt that these aims have been fulfilled.

However, taking into account how little time is available to develop extensive programs, it is the classes where the exercises concentrate on monographic topics that make it possible to go into depth not only into the subject, but also into matters of method, criticism, organization of the work, etc. The “pace” of the teaching has to find a percentage-based balance between the more extensive time, of narrative, exhibition and criticism, of the taught classes, and the more restricted time, subject to the result, of the practical work, exercises or exams. The students not only have to learn (in the literal sense of “grasp”) what the professor shares from the lectern, but also from the actions of their classmates, as well as their own exercises and corrections. The “pace” of the teaching, therefore, is linked to matters understood as an organic whole, and not as hierarchical parts of an administrative machine. Learning—the beautiful word that the “non-classroom” university wants to take—means acquiring knowledge through study and/or experience, and the teaching has to guarantee the organic connection between these two things: study and experience, precisely, are the underlying concepts of lessons and practice, or exercise. The teaching has evolved throughout the various courses, and considering the minimum common denominator, with sufficient harmony between the objectives and the results, to provide maximum satisfaction on the matter.
History of Spanish Architecture
(19-20th centuries)
Department of Theory and History of Architecture and Technical Communication | THATC

PROFESSORS Carolina B. García-Estévez, Enrique Granell
WEB http://www.spanisharchitecturenetwork.upc.edu/

Despite the fact that 20th Century architecture in Spain is presented as current, accompanying us with its physical and documentary testimonies much more directly than other more distant arguments, it is true that it has been studied very little in a critical sense. Therefore, the course proposes a route through the most relevant manifestations, in all of their facets: works, projects, theories, publications, journals, etc., aiming to offer a sufficiently wide range of episodes of the history of Spanish architecture, fundamental for a balanced interpretation. The chronological arc of the classes covers a period from the end of the 18th Century, passing through the language crisis at the end of the century and the new technologies up to the establishment of democracy in Spain. The practical work carried out in recent courses was concerned with architecture that, as it was non-existent, presented the opportunity to rethink the history of Spanish architecture from new viewpoints and critical approaches.

Urban Studies with GIS Technology
Department of Architectural Technology | TA

COORDINATOR Pilar García-Almirall
LECTURER Francesc Valls
WEB https://vimac.upc.edu

Urban studies with GIS technology are presented as an introduction to Geographic Information Systems, a tool that is essential for urban planning management. Learning is driven with the discovery of geospatial data, the concepts, principles, methods and applications in handling objects and georeferenced information. Debating recent case studies, in conjunction with Barcelona city council, Barcelona Metropolitan Area and other towns, as attractive examples in the field of architecture and urban studies (the consolidated city, the characterization of urban planning parameters and the characterization of housing), is supplemented with two workshops, one on a territorial scale and the other urban. Through these workshops, the students learn to create projects using GIS information and to propose analyses to make city management decisions. The students acquire the level of knowledge needed to be able to develop bases of georeferenced information, maps, descriptions of physical, urban, geographic and social parameters of interest in the study of housing, public spaces, the processes of urban transformation and built heritage, using the IT-based GIS tools.

Business Management and Start-Up for Architects
Department of Architectural Technology | TA

COORDINATOR Ana M. Puig-Pey

The course “Business creation and management for architects” aims to introduce the future architect to the basic facts of business reality, providing the initial tools for integration either into an existing work structure or generating their own new business structure with innovative value propositions. Entrepreneurship and innovation: Know and understand the organization of a company and the sciences that mark its activity; ability to understand the occupational regulations and the relationship between planning, industrial and commercial strategies, quality and profit. Drive innovation within the sector, stimulating the creative spirit of the future professional in the development of new processes and lines of service that aid urban transformation. Sustainability and social commitment: Know and understand the complexity of the economic and social phenomena typical of the welfare economy; capacity to link welfare to globalization and sustainability; ability to use technique, technology, economics and sustainability innovatively, in a compatible, balanced way.
Architectural Digital Photography
Department of Architectural Representation | RA

COORDINATOR Andrés de Mesa

The course is aimed at implementing rational use of the photographic image as a commonly used tool for representation within the field of architectural graphic expression. The fundamental idea is to use the model of photography to understand, describe and represent architecture using two basic phenomena: the definition of space of the photographic image by controlling the parameters that correspond to the linear perspective, the geometry of the scene and the representation of the shapes in the image by controlling the parameters that define light and colour as directly responsible for modelling the volume of the scene.

References to examples of the history of 20th Century photography constitute an essential starting point for developing the subject.

The syllabus is divided in two parts. The first part focuses on learning to take photographs, with knowledge and control of the digital camera, through the evaluation and interpretation of the architectural scene, perspective, framing and geometry of the scene, differentiation of planes and depth of field, light direction, colour temperature, colour and shade. The second part develops knowledge of the characteristics of the digital image obtained, so it can be treated and optimized by criteria of resolution, the content of the colour frequencies and contrast analysed using the light intensities of black and white.

There are two types of practical work on this course: Specific exercises to implement basic knowledge on photography and digital image, and a principal task consisting of a photographic report on a building or urban setting.

Collective Housing: Precedents, Current Developments and Alternatives
Department of Theory and History of Architecture and Technical Communication | THATC

COORDINATOR Jordi Oliveras
WEB http://www.pinterest.com/collectiu/

The course presents a systematic compendium of residential architecture, principally based on studying its shape. The principal aim and concept of the course is to present alternatives to the current methods of collective living, through knowledge and analysis of proposals, to reflect on the potential evolution that awaits it. The aim is to provide the future architect with the knowledge and skills that will enable well-supported formulations able to generate new ideas for the future of housing. The topics are developed as a flip-course with presentations by the professor and contributions from the students with presentations of cases (task 1). The summary tasks are to draw up a themed collection of floor plans (task 2) and to develop one of their own ideas (task 3).
**Architecture and Cinema**

Department of Theory and History of Architecture and Technical Communication | THATC

**COORDINATOR** Antonio Pizza  
**LECTURERS** Cristina Arribas, Celia Marin, Maria Mauti, Antonio Pizza, Daniele Porretta, Alessandro Scarnato  
**COORDINATION OF AUDIOVISUAL PRODUCTION WORKSHOP** Maria Mauti  
**COLLABORATORS** Celia Marin, Yolanda Olmos, Ciro Frank Schiappa  
**ACADEMIC COLLABORATOR** Mónica Soto  
**VIDEO AT FILMOTECA** https://fundacion.arquia.com/medioteca/filMOTECA/p/documentales/detalle/376

The course proposes a new way to view and interpret the architectural and urban space through cinema. At the same time, it provides the student with the tools to analyse and reflect on the context inhabited.

The course analyses fiction and documentary films, containing a language that is specifically architectural, witnessing how the physical environment represented (architecture and cities) become yet another character, and even the protagonist, in the film narrative itself.

For the 2019 course the cinema director Maria Mauti gave an audiovisual production workshop, with a select few students, in which they made a short film, focusing on an architectural work in Barcelona. On these “operational” occasions, the aim is to move on from theory to practice, valuing direct learning, along a route that reflects the professional process of the roles and techniques.

Theoretical analysis and reflection are supplemented with cinematographic practice, which becomes another tool and channel for understanding the urban environment. Through this experience, the laboratory aims to professionalize the students and enable them to strengthen and extend their knowledge, talents and attitudes, and the responsibility that collective work requires.

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**Thematic Workshop Seminar**

**Infrastructure, City and Architecture Seminar I**

Department of Urbanism and Regional Planning | UOT

**PROFESSOR** Ángel Martín

The seminar is a course linked to the Themed Workshop on Infrastructure & City. This is a learning activity where the participants use practical investigation and collaborative study of the syllabus, following the guidelines set out by the professor. They will go into depth into:

- Urban infrastructures and the architecture of the city, with the dimension of the whole city as a reference;
- The integration of infrastructures and uses in urban locations considering the role of interstices and discontinuity in the city;
- The coherence and functional equilibrium in mixed urban conditions with superimposed realities and the coexistence of infrastructure systems;
- The decongestion of overloaded situations, the scenarios of decreasement and decline of the city and the recycling of situations;
- The infrastructure in the urban space close to the citizen, with the role of the map of the soil and subsoil, and the spatial contacts and transitions.

It constitutes a learning method through the illustration and study of realities and projects on a European capital, the centre of a powerful metropolitan development, which can be visited during the Seminar with the students.

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Fanzine, Enric Miralles and the tower of Gas Natural, spring term, academic course 2018-19

K. Arranz, J. Saez, Plan analysis of Housing complex by Luigi Moretti and Caccia Dominioni, academic course 2018-19
Computer Design and Calculation of Bidirectional Reinforced Concrete Structures
Department of Architectural Technology | TA

COORDINATOR Jordi Maristany
LECTURER Laura Valverde

We understand that the design and dimensioning of structures that support them cannot be considered two separate worlds. It is every important that the student takes into account how buildings are supported and the requirements of their use while (not before and not after) designing the project.

Therefore, we propose this optional course that makes it possible to "sense" how one of the most common structures in the construction world works: bidirectional reinforced concrete structures.

At the same time, as is necessary in the world around us, all teaching is supported by the programming world and the use of specialized IT for RC that is most commonly used in this country.

Environment and Architectural Parameters: a Projectual Method
Department of Architectural Design | PA

COORDINATORS AND LECTURERS Luis Beriain, Jaume Valor

Environmental aspects are part of the project, from the analysis of the site to the construction and maintenance of the building and its deconstruction at the end of its useful life.

The course provides a method for formulating the environmental objectives on the external conditioning factors and the internal requirements, to then consider strategies and material solutions to achieve them.

Urban Regeneration and Reconversion Thematic Workshop Seminar
Department of Urbanism and Regional Planning | UOT

COORDINATOR Jordi Franquesa

The main objective of the Seminar is to use various student activities and tasks to reinforce the theoretical content that forms the basis for the themed workshop on “Arquitectes de Capçalera” (GP Architects), with the purpose of providing the student with the tools and instruments they need to be able to work more confidently and with deep critical reasoning on the project they undertake in the workshop.

With this aim, the Seminar works on key concepts such as urban regeneration, reconversion and reuse of spaces, cooperative housing, citizen participation, identity, non-planning, unique condominiums and communities, consideration of social sectors, gentrification, emergency architecture, ephemeral cultural interventions, informal architecture, valuation of the stages of ages, marginality, urban ecotones, cycles of use and temporality.

In groups, the students carry out a prior research task on one of the different topics proposed, which must be presented together with the rest of the group, establishing a space for debate and discussion to draw conclusions and complicity.

The Seminar is a forum for debate and, therefore conventional lectures are ruled out, so the focus is concentrated on the opinions developed by the students and the exchange of material and reasoning they have prepared.

Introduction to Scenography
Department of Urbanism and Regional Planning | UOT
Department of Theory and History of Architecture and Technical Communication | THATC

COORDINATORS AND LECTURERS Guillermo López, Antoni Ramon

What is staging, if not creating space? What is the essence of the architectural context according to the theory of modern architecture, if not space? With these premises as a starting point, the course proposes an introduction to the world of scenography.

Designing it is an excellent exercise in architecture: it helps to control the distance between the spectator and the work contemplated, to measure the depth of a field of action, to understand the effects created by visual drawings, to play with different scales between objects, with perspectives, imaginary effects, etc.
“Wise, correct and magnificent play with volumes under the light”, “machine for effects”, definitions of architecture by Le Corbusier are equally valid when referring to scenography.

The problems posed by the relationship between scenography and the spectator makes us pay attention to aspects that we sometimes ignore from the strict discipline of architecture, used to limiting ourselves to controlling measurements related to very specific functional standards. Talking about scenography, and theatre space in general, in a school of architecture has to help us learn about architecture.

Urban Architecture. Historic City
Department of Urbanism and Regional Planning | UOT

COORDINATOR Antonio Moro

The course aims to share the lessons of urban planning that the historical centre of Barcelona can offer us and that are current and applicable in other, very different contexts. In addition, and through gaining deeper knowledge of the Ciutat Vella, this course seeks to introduce students to urban planning research.

The Ciutat Vella of Barcelona has, since its origins, been the subject of a continuous process of growth and reform, especially in the last centuries, to adapt to changing situations. The successive and varying needs and ways of life have brought with them the contribution of new pieces that have been constantly updating it. This unfinished process that has been creating new pieces, or modifying or replacing the existing ones, has integrated them into what was there before, complementing, adding or correcting.

This course directs our gaze to those unique spaces or pieces, shedding light on how the city is structured. Each student will carry out a small research task on one of them.
Ground Architecture
Department of Urbanism and Regional Planning | UOT

COORDINATOR: Stefano Cortellaro

The course proposes a reflection on how the territory is built and its inhabited nuclei. By studying specific areas of the territory, an analysis based on drawing, criteria, shape, structure, the layouts and models of order that have guided the construction of the different rural landscapes and villages is proposed. The task proposed throughout the course aims to investigate possible strategies and criteria for intervention in rural areas and their inhabited nuclei, through an understanding of the general laws that have built the agricultural systems and villages.

In the 2018-19 course we worked on the village of Guimerà, where the architecture of the land plays a priority role. After an initial morphological reading of the landscape, on a scale of 1/10,000, we completed a survey of the village on a scale of 1/500.

Visual Lab. Hybrid Drawing
Department of Architectural Design | PA
Department of Architectural Representation | RA

COORDINATORS: Josep M. Lafont, Ernest Redondo

Hybrid drawing is defined as the combined use of various registers inherent in traditional and digital drawing, making use of the strongest expressive and communicative potential of each one, as well as their educational potential of the capacity for visual analysis, if used by architecture students. Dexterity with the new digital platforms together with the rigour of traditional techniques of architectural representation, in particular artistic drawing and shape analysis, duly combined, make it possible to strengthen the students’ communicative abilities, their visual education, which is the most effective way to represent imaginative, rich and flexible ideas, that are also rigorous if necessary, as they make it possible to overcome the conventions of more technical representations. It is visible intelligence, and why not art as well?

In our proposal we feel that before they finish their architecture studies, students must acquire the skills to:

- Experiment with the integration of traditional drawing by hand in the representation of the architectural project, once the basic stage of the student’s education has been completed.
- Experiment with the use of soft techniques and traditional soluble techniques.
- Experiment with the use of the typical methods of craftsmanship together with the dynamic strategies for techniques of digital drawing on tablets and experimental strategies.

Use all of these as a whole to complete their visual experience and their mixed and hybrid use, as a characteristic trait of an alternative to the current method, to tackle the intended representation of the project in the final stage of their studies.
Urban Notes
Department of Architectural Representation | RA

LECTURERS Renata de Mendonça, Bruno Seve
With the participation of Prof. Zaida Muxi, GP Architects (Arquitectes de Capçalera AC)
and Taula Eix Pere IV

Urban notes is an entertaining community activity, in which architecture students and in some cases, associations and neighbourhood groups share a pleasant moment, exchange visions and ideas about the place, and so bring architects into closer contact with residents. The teaching objective of the new subject is to present the methods of urban and architectural analysis through drawing by hand (urban sketching) and other mixed techniques (hybrid drawing). Urban sketching allows students first to observe a reality, become aware of it and provide their own interpretations. It provides a channel for dialogue between participants to develop urban strategies.

This first formal experience as an elective course for the ETSAB in the department of AR (Architectural Representation), has been developed in Poblenou around the axis of the street Pere Eix IV, in an area with many contrasts that has recently undergone a dramatic and radical transformation with the development of 22@. One of the challenges was to propose open drawing sessions in which anyone could come to draw. On these occasions, urban sketchers who live in the neighbourhood came and gave their opinions. The experience took an unexpected turn with the emergence of the Covid-19 health crisis, and lockdown in the middle of the course. As a result of this unexpected situation, new dynamics had to be developed for online co-creation.
GP Final Thesis (2014 Educational training)

This course allows a critical evaluation of the students’ training as well as a global understanding of the knowledge of architecture that they have developed throughout the degree. The result is a metacognitive process that simultaneously demonstrates their mental organization, scale of values and ability to learn.

The main objective of this course is to encourage the students’ critical and deep thinking to construct a well-argued account of their learning throughout their years at the School, positioning themselves on the discipline and reflecting on their own knowledge through a metacognitive exercise that shows their intellectual capacity and mental organization.

This course is the close of a five-year degree that results in their qualification in Architecture.

To this end, the students will be able to critically evaluate their learning process by building a website or digital portfolio. Its value does not lie in the creation of a directory of their submissions throughout the degree, because an inventory of contents and works does not hold much interest in itself; the key is to develop critical thinking surrounding that material. For example, this entails explaining the situations in which the student consolidated certain knowledge or internalized new readings or thinking about a specific issue, placing emphasis on the conceptual change about the discipline during key moments throughout the learning process. A digital portfolio has another greater advantage: apart from implying this metacognition, it plays the role of a bridge between the lessons learned throughout the degree and their introduction to the labour market, in the understanding that this webpage can ultimately, and according to their interests, constitute an essential and valuable seed in their personal presentation to the professional market.

With this generic objective in mind, the digital portfolio consists of three pillars, each with a specific function. The first is the synthetic inventory, where the learning achieved during the five years of the degree is summarized. Clearly, the quality of this material is not as important as the students’ ability to present their work, properly classified and organised in a hierarchy so they can show the stages in which they internalised specific lessons or argue why they added certain assignments or works. This synthetic process is clearly related to the cross-curricular nature of the courses, an essential aspect of our discipline that students need to show in their global reading of their work. Of special interest are their vision of the various subjects and their involvement in them, as well as their reading of the application of those subjects to their impending future professional development.

The second pillar is related to learning outside the classroom. The students’ training takes place inside and outside the classrooms, and their experiences in other environments are also essential in building their knowledge. In this sense, trips, workshops outside the school, advanced courses in parallel disciplines, entries in student competitions, working in an architectural studio, the Erasmus program and, in sum, all those personal experiences linked to the discipline, are key. This type of learning is also fundamental and is linked to the so-called hidden curriculum. It is, therefore, very important for students to be able to explain how and when they discovered that their learning outside the classroom influences their knowledge of the discipline. This is actually what makes a student stand out from others. It stimulates specificity and makes their knowledge effectively unique.

Finally, the third pillar is related to research work, a document that goes into detail about a specific issue because there is a special interest or because the student feels it was not appropriately addressed during the degree. The main objective of this part is to show the students’ capacity for self-learning and to clearly discern the extent to which this final thesis has helped the students to identify their strengths and weaknesses. The need to seek information, understand it, organise it in a hierarchy and deduce their own conclusions in relation to the knowledge on that specific issue allows them to recognise their own potential and the skills acquired throughout the degree.
Final Thesis 2018-19

Technology

SERGI CERCÓS CUÑAT
Política d’habitatge: densificació urbana i col·laboració públic-priva
d Thesi
director: Carlos Pérez Lamas
Department: TA

JOEL GONZÁLEZ AGUILAR
¿Lugar ideal o lugar irrealizable? Utopías en la Arquitectura
Thesi
director: Carlos Pérez Lamas
Department: TA

GUILLER HUGUET ALSINA
Sustainable architecture, Models of building certifications
Thesi
director: Carlos Pérez Lamas
Department: TA

ROBERT LEDEMÁ I SÁNCHEZ
The architecture of the power
Thesi
director: Carlos Pérez Lamas
Department: TA

HELENA LÓPEZ PLAN
erquitectura, la llum natural i l’usuari. Estudi de casos
Thesi
director: Carlos Pérez Lamas
Department: TA

ADRIÀ LOZA GUTIÉRREZ
Connectivitat entre Les Vilelles
Thesi
director: Carlos Pérez Lamas
Department: TA

ADEDOLAPO OREOLUWA MAJEKO
Edificios de consumo casi nulo
Thesi
director: Carlos Pérez Lamas
Department: TA

BORIS NAVARRO CARDONA
Green Roofs in architectural construction
Thesi
director: Carlos Pérez Lamas
Department: TA

RAQUEL OLIVERA RUESCA
L’arquitectura i el Feng Shui
Thesi
director: Carlos Pérez Lamas
Department: TA

Theory, Project and Representation

JÚLIA COSTA GORDÓ
El modernisme com a element transgressor en el Skyline de l’Eixample
Thesi
director: Enrique Granell Trias
Department: THATC

GEMA GILI GINER
The influence of the football stadiums in the cities growth
Thesi
director: Enrique Granell Trias
Department: THATC

MARTA MONLLEÓ RIUS
El Monestir de Poblet. Mirades, visions i intervencions patrimonials (1806-1940)
Thesi
director: Enrique Granell Trias
Department: THATC

ANDREA PALOMINO DE LA FUENTE
El otro Coderch: Bloc de Pescadores de la Barceloneta, 1950-1960
Thesi
director: Enrique Granell Trias
Department: THATC

CARMEN PERA NAVARRO
Pueblos de colonización del sistema de riegos del Alto Aragón en la provincia de Huesca. Modelos de intervención urbanística
Thesi
director: Enrique Granell Trias
Department: THATC

PAULA SANFÉLIX MORERA
Tortosa a la recerca del seu centre
Thesi
director: Enrique Granell Trias
Department: THATC

CHANTAL SANZ ALASA
Stockholm: una mirada moderna sobre la ciudad
Thesi
director: Enrique Granell Trias
Department: THATC

TERESA SELLÉS MARCO
Industry, Architecture and Society. Industrial Archeology and its impact on the transformation of industrial buildings into facilities for the city
Thesi
director: Enrique Granell Trias
Department: THATC

GONZALO AUGER PORTILLO
COLIVING “People is ready to share”
Thesi
director: Ariadna Perich Capdeferro
Department: PA

MARIA AQUSER SARDÀ
Miralles, col-lecció d’emplaçaments
Thesi
director: Ariadna Perich Capdeferro
Department: PA

LUCAS BERGARA ANDRADE
MAST & Conjunto Nacional. Two different ways of approaching Avenida Paulista
Thesi
director: Ariadna Perich Capdeferro
Department: PA

MIKEL BERRA SANDÍN
Cities, change and opportunity: An evaluative approach to urban evolution episodes in Chicago and Berlin
Thesi
director: Luis Félix Arranz San Vicente
Department: PA

JORGE BORES-LEONARI PUIG-LA CALLE
Ricardo Legorreta, un estil
Thesi
director: Roger Such Sanmartín
Department: PA

ANDREA CONTRERAS CARMONA
Interpretar, proyectar, enseñar
Thesi
director: Ariadna Perich Capdeferro
Department: PA

DANIELA SABINA DA SILVA ASSEF
Ruina como monumento, ruina como sentimiento
Thesi
director: Ariadna Perich Capdeferro
Department: PA

ELISENDA DALMAU AYNIER
L’eficiència de les places a dues escales. Una mirada transversal al Barri Gòtic de Barcelona i a la Vila de Pals
Thesi
director: Luis Félix Arranz San Vicente
Department: PA

FÁTIMA DÍAZ BARRERAS
Proyecto a bordo. Aplicación de la teoría del proyecto en el diseño de un barco
Thesi
director: Luis Félix Arranz San Vicente
Department: PA

CARLOTA ESCABIA RIERA
La ciudad del silencio
Thesi
director: Roger Such Sanmartín
Department: PA

IGNACIO ESCARPENTER GARCÍA
Pedagogía del espacio escolar. Influencia del espacio en la educación y el desarrollo individual y colectivo
Thesi
director: Ariadna Perich Capdeferro
Department: PA

ELVIRA FERNÁNDEZ MATEOS
Free Space. Free Artifact
Thesi
director: Roger Such Sanmartín
Department: PA

POL GAYNÉS CORTÍO
Revolución y creación: Una breve historia de la humanidad
Thesi
director: Roger Such Sanmartín
Department: PA

IVA IVANOVA EYTIMOVA
Transformación y refundación del centro histórico de Sofía
Thesi
director: Roger Such Sanmartín
Department: PA

MIREIA JUVANY IGLESIAS
La radiació solar com a estratègia energètica passiva i el disseny de l’envolupant a l’arquitectura de J. A. Coderch
Thesi
director: Roger Such Sanmartín
Department: PA

ALEX MARIN MORERA
Barcelona-Río és la Diagonal
Thesi
director: Luis Félix Arranz San Vicente
Department: PA

MIGUEL MARTÍNEZ Hidalgo
El lenguaje del rela
t arquitectónico. Eines d’accés al projecte d’arquitectura
Thesi
director: Luis Félix Arranz San Vicente
Department: PA
EDUARD OLESTI VALVENY
Esfers per a una arquitectura de confort
Thesis director: Luis Félix Arranz San Vicente
Department: PA

MIGUEL ÀNGEL SEGARRA PALAZUELO
Arquitectura, educació i comunitat.
Materialització del diàleg com síntoma, instrumento i objetiu professional
Thesis director: Luis Félix Arranz San Vicente
Department: PA

TANIA TORRES CASANOVA
Metamorfosis residencial japonesa
Thesis director: Roger Such Sammartín
Department: PA

ARNAU AIXALA HERRERIAS
Pont. on. Centre cultural i mediateca
Thesis directors: Ana Zubelzu Viarje, Enrique Mir Teixidor
Department: PA

PAU MACIÀ ANGUERA
La incidència del canvi climàtic en l’arquitectura: Andorra com a cas d’estudi
Thesis director: Judit T aberna Torres
Department: RA

CRISTINA MARCOS MURGADAS
Entropia, música i arquitectura.
La emergència del espai en la música del siglo xx
Thesis director: Judit T aberna Torres
Department: RA

NÚRIA MOLL MOLLÀ
L’arquitectura dels sentits.
Projectar atmosferes
Thesis director: Judit Taberna Torres
Department: RA

PAULA MOYANO RAMON
La dona i l’espai domèstic: evolució i estudi de casos. La Casa Bloc i les Cotxeres de Sarrià
Thesis director: Judit Taberna Torres
Department: RA

ALEXANDRE NOVEL COSTA
Una mirada arquitectònica del patrimoni industrial tèxtil de Mataró
Thesis director: Judit Taberna Torres
Department: RA

PATRICIA PALOU SUEIRAS
Sintonizando rascacielos, amortiguador de masa sintonizado pendular
Thesis director: Judit Taberna Torres
Department: RA

INÉS PIÑERO OZORES
TEATRO OFICINA, el teatro hecho calle
Thesis director: Judit Taberna Torres
Department: RA

Urbanism and Landscape

ARIADNA FIGUERES PANISELLO
Crossing the Ebre River
Thesis director: Francesc Peremiquel Lluich
Department: UOT

RICARD PRIETO LUNA
El dibuix com a llenguatge en el procés de projectació e ideació d’Alvaro Siza.
Facultat d’arquitectura de la Universitat de Porto i el barri de La Malagueira
Thesis director: Francesc Peremiquel Lluich
Department: UOT

ROBERT RUBIO PORTOLÉS
LA TARRUELLA, 1832. De los tejados e hilados de algodón a la factoria cultural
Thesis director: Francesc Peremiquel Lluich
Department: UOT

CARMEN SALAS RUIZ
Mise en paysage (el espai urbano del París de los 60 a través de la mirada de la Nouvelle Vague)
Thesis director: Francesc Peremiquel Lluich
Department: UOT

EMMA SARKISOVA
Mutatis mutandis. Los frentes marítimos: nuevas estrategias para viejos dilemas
Thesis director: Francesc Peremiquel Lluich
Department: UOT

MARC SOCIAS MOREY
El Bambú como material constructivo
Thesis director: Francesc Peremiquel Lluich
Department: UOT

ANNA SOLÀ TEIXIDÓ
Repensem l’espai del pati
Thesis director: Francesc Peremiquel Lluich
Department: UOT

BLANCA TRUEBA COLON DE CARVAJAL
Espacios de creación artística. Del taller individual a los fábricas de creación
Thesis director: Francesc Peremiquel Lluich
Department: UOT

ALEJANDRO TUDURÍ SINTES
Piezoelectricidad en la arquitectura y estudio de su viabilidad en Barcelona
Thesis director: Francesc Peremiquel Lluich
Department: UOT

LAURA VIRGINIA DE VARGAS PÉREZ
Public space in the global south: a tale of two former colonies
Thesis director: Carlos Pérez Lamas
Department: TA

ANDRÉS ECHARRI ALONSO
Optimización de los materiales en la construcción: materiales naturales en la actualidad y su industrialización
Thesis director: Carlos Pérez Lamas
Department: TA

OMAYMA EL AAKEL EL QULKAD
L’aigua com a territor. Ciutats flotants e illes artificials
Thesis director: Carlos Pérez Lamas
Department: TA

Rebecca Fabregat García
La transformació dels interiors d’Illes de l’Eixample de Barcelona en espais verds públics
Thesis director: Carlos Pérez Lamas
Department: TA

Final Thesis 2019-20

Technology

ANIA BECH VILASECA
Bases per al disseny i tecnologia de les estructures de membranes tèxtils tensades
Thesis Director: Carlos Pérez Lamas
Department: TA

IVÁN COSTA RAMÓN
Eivissa: una ciutat portuària
Thesis Director: Carlos Pérez Lamas
Department: TA

LUCIANO DE MARCO
Regionalismo, alternatives Latinoamericanas al Movimiento Moderno
Thesis Director: Carlos Pérez Lamas
Department: TA

MARTA DE SOUSA E CASTRO
Sostenibilidad Urbana en Sudamérica; Casos de Estudio: Ciudad de Curitiba & Eco-Villa Gaia
Thesis Director: Carlos Pérez Lamas
Department: TA

LAURA VIRGINIA DE VARGAS PÉREZ
Public space in the global south: a tale of two former colonies
Thesis Director: Carlos Pérez Lamas
Department: TA

Rebecca Fabregat García
La transformació dels interiors d’Illes de l’Eixample de Barcelona en espais verds públics
Thesis director: Carlos Pérez Lamas
Department: TA

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LAURA FERNÁNDEZ MIRÓ
Mirades a La Ricarda
Thesis Director: Carlos Pérez Lamas
Department: TA

GUILLÉM FLORIT BOSCH
Redefinició de la forma urbana del polígon residencial
Thesis Director: Carlos Pérez Lamas
Department: TA

PERE FLOTATS SALA
Pionerisme; l’arquitectura nòmada aplicada al moviment escolta
Thesis Director: Carlos Pérez Lamas
Department: TA

MARCEL FOLCH BRUGAROLAS
“Raising curtains: architecture in performing arts”. The meaning of theater performance based on its architecture
Thesis Director: Carlos Pérez Lamas
Department: TA

MARINA HEIREMANS ANDREU
Arquitectura efímera. La escenografía dentro de la obra de Tim Burton
Thesis Director: Carlos Pérez Lamas
Department: TA

Theory, Project and Representation

NAIARA ALBIZUA DIAZ
Hacia una arquitectura multiespecifica y sus nuevas materialidades
Thesis Director: Manuel Ferrer Sala
Department: THATC

PAULA AMARGOS MOLINA
The healthy urban planning of GATCPAC: The influence of health in new urbanism of Barcelona during the Second Republic
Thesis Director: Manuel Ferrer Sala
Department: THATC

CRISTINA ASTOL RIERA
La cocina más allá de un espacio de servicio. Análisis, evolución y estudio de casos en el Ensanche de Barcelona
Thesis Director: Manuel Ferrer Sala
Department: THATC

IGNACIO AYDILLO HERNÁEZ
En defensa del paisaje campesino
Thesis Director: Manuel Ferrer Sala
Department: THATC

ALBA BAROJA FERNÁNDEZ
Las formas de crecimiento urbano de Praga y el sitio de la ciudad
Thesis Director: Manuel Ferrer Sala
Department: THATC

MAR BARTOLOMÉ NARBÓN
El Festival LlambBCN: una cartografía de l’urbanisme del segle XXI
Thesis Director: Manuel Ferrer Sala
Department: THATC

JOAN BERENGUER BARBERA
Todaiji temple’s structure and its precedents
Thesis Director: Manuel Ferrer Sala
Department: THATC

BLANCA BRIZ FARRAN
La herencia de la arquitectura tradicional en las bodegas: algunos ejemplos de la arquitectura contemporánea
Thesis Director: Manuel Ferrer Sala
Department: THATC

CLAIRA CALDÉS ORTÍN
La conservación del patrimonio de la Serra de Tramuntana. Estudio de los aterrazamientos y sistema hídrico de Banyalbufar
Thesis Director: Manuel Ferrer Sala
Department: THATC

ALICIA FRANCISCO SÁNCHEZ
La luz de los museos. La luz natural como material de proyecto en el British Museum, el Museo del Prado y el Neues Museum en su conformación a lo largo del tiempo
Thesis Director: Manuel Ferrer Sala
Department: THATC

PAU GASAS BARBAL
Sostenibilitat de la vida a través de la casa. Casa Padrina Teresa
Thesis Director: Manuel Ferrer Sala
Department: THATC

MAGDALENA RUIZ CORDERO
In the search of a Zero Architecture: Using grasshopper for the design of a Zero Net Energy library in California
Thesis Director: Manuel Ferrer Sala
Department: THATC

AINA VALENS PONS
Lo simétrico, la arquitectura en la literatura y algunos cuentos del romanticismo
Thesis Director: Marta Llorente Díaz
Department: THATC

MARTA YAGO ABENOJA
Segregació social en el espai públic, el cas a el Dublín
Thesis Director: Manuel Ferrer Sala
Department: THATC

SAMUEL AGUILAR CAYUELAS
Del carácter del espacio a su materialización
Thesis Director: Jaime José Ferrer Fores
Department: PA

MANUEL ARQUED CASTELLÓ
Fragmentación del habitat causada por las infraestructuras de transporte
Thesis Director: Jaime José Ferrer Fores
Department: PA

MIREIA ARRANZ SANTA-OLALLA
El pilar fangiforme y dendriforme. La naturaleza que habita en la estructura
Thesis Director: Jaime José Ferrer Fores
Department: PA

ADRIAN CHRISTOPHER BLAISE CADIZ
Transformación de la movilidad en las ciudades
Thesis Director: B. Pleguezuelos Casino
Department: PA

ANNA BOSCH CALVO
Anna Bofill Levy, una conversa durant el confinament
Thesis Director: Jaime José Ferrer Fores
Department: PA

CARLA ELENA BRIA MONTCUISÍ
El Cas de la Torre del Delfí: enunciar, reactivar, rehabilitar (un) paisatge
Thesis Director: Luis Félix Arranz San Vicente
Department: PA

MARCOS BRUGAROLAS SOBEJANO
El arquitecto contemporáneo, la esencia de Nieto Sobejano y Toni Gironès
Thesis Director: Luis Félix Arranz San Vicente
Department: PA

ALBERT XAVIER BRU&WELL VALSELLS
Observing and portraying architecture through photography
Thesis Director: Jaime José Ferrer Fores
Department: PA

AINA BRUNET PASQUAL
Espais que creen comunitat a les cooperatives d’habitatge
Thesis Director: B. Pleguezuelos Casino
Department: PA

CONSTANTIN BUDIASHVILI TURKADZE
Uso de celulosas y derivados de la madera en la construcción
Thesis Director: Jaime José Ferrer Fores
Department: PA

JAVIER BUGEDA GUASCH
L’Habitatge Digital. Accessibilitat i domòtica per a persones dependents
Thesis Director: Jordi Ros Ballesteros
Department: PA

CRISTINA CAMARASA I RIBERA
Català Roca, a visionary of the urban landscape’s evolution
Thesis Director: Benjamín Pleguezuelos Casino
Department: PA

SERGI CARALT TABOADA
Estructura, forma i funció. L’arquitectura paramètrica i el Complex Watergate de Luigi Moretti
Thesis Director: Benjamín Pleguezuelos Casino
Department: PA

DANIEL CASADO BLANCO
La reinterpretación de la casa del Té tradicional japonesa
Thesis Director: Jaime José Ferrer Fores
Department: PA

MARIA DEL MAR CASADO PÉREZ
Domus popular. El temple 60 anys després del concili
Cristina Casanovas López-Amor  
La diáspora arquitectónica  
Thesis Director: Luis Félix Arranz San Vicente  
Department: PA

Ángel Casino Ginesa  
Preguntas sobre el aprendizaje y la difusión de la arquitectura  
Thesis Director: Luis Félix Arranz San Vicente  
Department: PA

Javier Elías Castillo Sánchez  
Rehabilitación de fortificaciones por crowdfunding: Ejemplo de propuesta y aplicación teórica en el castillo de la Atalaya, Cartagena  
Thesis Director: Benjamín Pleguezuelos Casino  
Department: PA

Martí Codorniu Miret  
C de Confinamiento o respuesta de una necesidad  
Thesis Director: Benjamín Pleguezuelos Casino  
Department: PA

Alexandre Crispín García  
Deconstrucción territorial de Galicia. Investigación de los procesos vinculados a la degradación de su territorio  
Thesis Director: Jordi Ros Ballesteros  
Department: PA

Javier de Juan Ortega  
Refugios de alta montaña en el siglo XXI: particularidades en su construcción  
Thesis Director: B. Pleguezuelos Casino  
Department: PA

Núria Gómez Mata  
Barbican. Espais de contrast i complexitat  
Thesis Director: Jaime José Ferrer Fores  
Department: PA

Arnaud Guinart Rull  
Evolución de l’espai domèstic a les residències catalanes 1769-1939  
Thesis Director: Roger Such Sanmartín  
Department: PA

Ana Lucía Guzmán Domínguez  
Energy efficiency as a goal for new construction projects. Analysis of three projects with Passivhaus and Cte energy certificates  
Thesis Director: Luis Félix Arranz San Vicente  
Department: PA

Stefan Horn  
The Role of Economic Rent in Sustainable Dwelling  
Thesis Director: Roger Such Sanmartín  
Department: PA

Elías González García  
Los polígonos de vivienda masiva en la ciudad de Sofía / The mass housing estates in the city of Sofia  
Thesis Director: Ariadna Perich Capdeferro  
Department: PA

Isabel Manen Vives  
Sección y dolor. Arquitectura emergente de Shigeru Ban y Kashef Mahboob Chowdhury  
Thesis Director: Jordi Ros Ballesteros  
Department: PA

Raquel Marcos Pujo  
Arte, acción social y arquitectura con perspectiva de género  
Thesis Director: Jaime José Ferrer Fores  
Department: PA

Andrea Marrodan Hernández  
Relatos sobre la ciudad. Situaciones y derivas en Barcelona y Venecia  
Thesis Director: Jordi Ros Ballesteros  
Department: PA

Sara Martí Elboj  
Arquitectura efímera d’emergències. Guia operativa para als centres de comanament en un incendi forestal  
Thesis Director: Jordi Ros Ballesteros  
Department: PA

Elia Martínez Prats  
Habitar: l’acte d’entrar. L’espai domèstic i el mobiliari moderns a l’arquitectura catalana  
Thesis Director: Jaime José Ferrer Fores  
Department: PA

Enric Mas Sánchez  
Gates of the Alhambra: Memory of Granada through thresholds  
Thesis Director: Jaime José Ferrer Fores  
Department: PA

Aleix Masjoan Colomer  
Trepitant fort. Anàlisi i cacular de la petjada ecologica. Estudis comparatius acer-fusta a partir de dos projectes propis  
Thesis Director: Jordi Ros Ballesteros  
Department: PA

Marc Modelell Rodríguez  
Els deixebles i el mestre: L’empremta de Mies van der Rohe a Chicago  
Thesis Director: Jordi Ros Ballesteros  
Department: PA

Pau Monjo Roca  
El teatre de Drottningholm. Tecnologia escènica i Arquitectura  
Thesis Director: Jordi Ros Ballesteros  
Department: PA

Alvaro Javier Monzón Domínguez  
La Arquitectura en la educación, una herramienta transformadora  
Thesis Director: Jordi Ros Ballesteros  
Department: PA

Ariadna Olivas Porcar  
Espais coreogràfics: Una introducció al moviment corporal en l’arquitectura  
Thesis Director: Jordi Ros Ballesteros  
Department: PA

Joan Olle Grau  
URTECO (Urban Technologies)  
Thesis Director: Jordi Ros Ballesteros  
Department: PA
Luisa Oncina Micó
Arquitectura en cultura con madera
Thesis Director: Ariadna Perich Capdeferro
Department: PA

Belén Parejo Navarro
Urban planning with a gender perspective.
From theory to practice
Thesis Director: Ariadna Perich Capdeferro
Department: PA

Claudia Piña Guardia
Eat and inhabit, a story of rhythms.
Materialization of the technological process as an instrument of modernity and change
Thesis Director: Luis Félix Arranz San Vicente
Department: PA

Montserrat Roger Bernadas
Estudi de la implementació tecnològica a la ciutat del Digital City a Barcelona i com adaptar i aplicar un protocol d’actuacions a pobles, posant com exemples l’aplicació d’aquest al poble de Malgrat
Thesis Director: Luis Félix Arranz San Vicente
Department: PA

Marta Roig Echegaray
El habitar en la vertical
Thesis Director: Jordi Ros Ballesteros
Department: PA

Pere Serra Bosch
Repensant l’última casa
Thesis Director: Luis Félix Arranz San Vicente
Department: PA

Yésica Luján Silvero Baldomar
Arquitectura y CoHousing: ejemplo del modelo de vivienda colaborativa en Alemania
Thesis Director: Roger Such Sanmartín
Department: PA

Mireia Simó Higuera
La proyección de un espacio doméstico como a eina emancipadora de los cuadros. Catherine E. Beecher, Margarette Lihotzky y Charlotte Perriand
Thesis Director: Roger Such Sanmartín
Department: PA

Anna Solà Hernández
La geometria i la parametrizació com a eines de disseny
Thesis Director: Jordi Ros Ballesteros
Department: PA

Andres Fabian Suárez Ramírez
A Professional Matter. An intimate way to enhance built architecture
Thesis Director: Luis Félix Arranz San Vicente
Department: PA

Teresa Sumerakin Amich
L’estàndard Passivhaus al clima mediterrani
Thesis Director: Ariadna Perich Capdeferro
Department: PA

Maria TarrueLLa i Serra
Tres obres amb fusta de Peter Zumthor. Anàlisi d’edificis on el detall de fusta s’utilitza per a l’expressivitat arquitectònica
Thesis Director: Ariadna Perich Capdeferro
Department: PA

Marta Torrente Cases
Habitatge espais reduïts: La torre Nakagin; manifest metafísica en decadència o emblema del moviment de l’habitatge mínim
Thesis Director: Roger Such Sanmartín
Department: PA

Arxau Valero Carrasco
Estudi dels passatges a l’Exemple de Cerdà. Proposta de catàleg i una mirada a la Corredera d’Horta
Thesis Director: Roger Such Sanmartín
Department: PA

Albert Valls Guardaño
Estructures lamínaires. Estudi de tres casos d’Eduardo Torroja
Thesis Director: Ariadna Perich Capdeferro
Department: PA

Carolina Vázquez Martínez
Evolución y recuperación de los pequeños núcleos rurales: El caso de Vallermoso
Thesis Director: Ariadna Perich Capdeferro
Department: PA

Daniel Vela Cubillo
Rehabilitación y aplicación de sistemas constructivos singulares en Venecia
Thesis Director: Benjamin Pleguezuelos Casino
Department: PA

Judith Velilla García
Influence of Pop Art on Architecture from the Independent Group analysis
Thesis Director: Ariadna Perich Capdeferro
Department: PA

Richard Verdale Arroyo
L’habitge de mínims: Aplicació i comparació de les normatives d’habitabilitat al Japó i Catalunya
Thesis Director: Ariadna Perich Capdeferro
Department: PA

Francisca Vidal Cerda
Renaturalización urbana como estrategia al cambio climático. El caso de Barcelona
Thesis Director: Ariadna Perich Capdeferro
Department: PA

Cristina Vilarró Torrents
Entre espais
Thesis Director: Jordi Ros Ballesteros
Department: PA

Guillem Vilaseca Aguilar
El mueble como configurador de la arquitectura; mutación, adaptabilidad y totalidad
Thesis Director: Luis Félix Arranz San Vicente
Department: PA

Marta Vilaseca Pierra
Chicago i la ciutat al cel. El futur de l’urbanisme vertical a la ciutat del gratacel
Thesis Director: Jordi Ros Ballesteros
Department: PA

Marc Vizcarra Pascual
La Mobilitat Aèria Urbana
Thesis Director: Ariadna Perich Capdeferro
Department: PA

Alexandre Walbreccq Oros
Impacto del ferrocarril en el crecimiento de los pueblos de Barcelona a Vic. Origen de la línea R3 de cercanías y análisis de su impacto inicial
Thesis Director: F. Javier González Pérez
Department: RA

Yao Yao Zhu Wu
Entre los límites de la escultura y la arquitectura
Thesis Director: Ariadna Perich Capdeferro
Department: PA

Gastón Akrich Corradini
Ray tracing, realidad virtual y su aplicación en la arquitectura
Thesis Director: Erik Solís Brull
Department: RA

Maiteane Alesanco Bilbao
Arquitectura tradicional japonesa y el porqué de su evolución
Thesis Director: F. Javier González Pérez
Department: RA

Thalia Andrés Bauzá
Los pueblos moribundos de Castilla: Esca- las del progreso y el valor de lo vernacular a través de la obra literaria de Miguel Delibes
Thesis Director: Joana Ayxendri Gairal
Department: RA

Kerman Arranz Aurre
Infraestructura y periferia
Thesis Director: Joana Ayxendri Gairal
Department: RA

Briell Estefany Bricenó Zapata
Límites, contraste y percepciones
Thesis Director: Joana Ayxendri Gairal
Department: RA

Paula Capellá Amorós
Redescubriendo los terrats de Barcelona
Thesis Director: Joana Ayxendri Gairal
Department: RA

Mar Castarlenas I Rabbassa
Territori i ciutat. El territori com a modelador urbà en la ciutat de Valparaíso
Thesis Director: Joana Ayxendri Gairal
Department: RA

María Del Mar Coll Oliver
El uso de la imagen en la obra construida de Superstudio
Thesis Director: F. Javier González Pérez
Department: RA
RAQUEL MUT ROJAS
La indiferencia hacia el río Tiber
Thesis Director: J. I. Valgañón Álvarez
Department: RA

RUBÉN ANTONIO POLO MARTÍN
Vertical Gardens in the Architecture
Thesis Director: Erik Soles Brull
Department: RA

JÚLIA RÓS BOFARULL
Habitar des del teixit. L’habitatge nòmada: La tenda negra, la iurta i el xum
Thesis Director: Erik Soles Brull
Department: RA

CLAIRE ROSELL MENA
Una mirada al futuro: propuesta de resignificación del espacio parking
Thesis Director: Juan Ignacio Valgañón Álvarez
Department: RA

MARÍA SÁNCHEZ I DOMÍNGUEZ
SACRA LUZ - La luz como elemento definitorio en el espacio litúrgico: Hyvinkää, Huutoniemi, Tapiola; la tríada de Aarno Ruusuvuori
Thesis Director: Erik Soles Brull
Department: RA

TRISTANY MANUEL SERRA LASIERRA
Arquitectura del arte
Thesis Director: Francisco Javier González Pérez
Department: RA

DIEGO CUESTA FERNANDEZ
Caminos rurales: integración funcional
Thesis Director: Joana Ayxendri Gairal
Department: RA

NIAIRA GALVEZ CALVO
Paisaje funerario como nueva arquitectura funeraria
Thesis Director: Joana Ayxendri Gairal
Department: RA

ALBERT IZQUIERDO ANTO
Arquitectura e industrialización: La fusta contraaminada como solución enfront als paradigmes actuals
Thesis Director: Juan Ignacio Valgañón Álvarez
Department: RA

ALBERTO LLERENA BASTIDA
L’espai públic a través de la perspectiva del col·lectiu infantil: un barri, tres generacions
Thesis Director: Joana Ayxendri Gairal
Department: RA

ADRIÁN JUAREZ GRANADOS
La Vivienda Progresiva
Thesis Director: Francisco Javier González Pérez
Department: RA

XAVIER LLERENA BASTIDA
L’espai públic dins de la unitat veïnal: El cas de la ciutat de Ljubljana
Thesis Director: Francisco Javier González Pérez
Department: RA

ALBA LLEVADO MASSANÉS
Arquitectura i gastronomia: tècnica i sentits
Thesis Director: Joana Ayxendri Gairal
Department: RA

LUIS MEJÍAS CABEZA
Inclusive Architecture
Thesis Director: Erik Soles Brull
Department: RA

JOAN MARTÍ MORRO CAPLONCH
Un refugi de baixa petjada ecològica: projectar, construir, habitar
Thesis Director: Erik Soles Brull
Department: RA

RAFAELA MUT ROJAS
La indiferencia hacia el río Tiber
Thesis Director: J. I. Valgañón Álvarez
Department: RA

MÓNICA PÉREZ I COMA
La cooperación internacional como eina per al desenvolupament: Memòries de Moçambic
Thesis Director: Erik Soles Brull
Department: RA

ISABEL PÉREZ MANÉN
Asentamientos sobre el río Corb. Caso estudio Guimerá
Thesis Director: Erik Soles Brull
Department: RA

CARLA PINTADO LECHADO
L’arquitectura escolar com a element pedagògic
Thesis Director: Erik Soles Brull
Department: RA

ADRIANA PLA LÓPEZ
Influències de la bugadà en el projecte arquitectònic: l’evolució a Barcelona des de l’aparició dels electrodèmics
Thesis Director: J. I. Valgañón Álvarez
Department: RA

BEGÓÑA ROGÉ DE AYSÁ
La cuina com a laboratori domèstic
Thesis Director: Juan Ignacio Valgañón Álvarez
Department: RA

ENRIC PULIDO NAVARRO
ESPACIOS INMERSIVOS: Estrategias de diseño en parques temáticos y sus implicaciones
Thesis Director: Juan Ignacio Valgañón Álvarez
Department: RA

PABLO QUILES MORENO
La arquitectura de “El elogio de la sombra”
Thesis Director: Joana Ayxendri Gairal
Department: RA

ADRIÁN RAMOS OLIVARES
La Arquitectura a Óscuras
Thesis Director: Joana Ayxendri Gairal
Department: RA

JORGE RIBERA MÁRIN
Recintes poc materials. OFFICE KHDVS
Thesis Director: Erik Soles Brull
Department: RA

ORIOL RIERA GUAL
Futur de la indústria com a transformadora urbana
Thesis Director: Juan Ignacio Valgañón Álvarez
Department: RA

BERNAT ROCA CARBONELL
La cota 4 del Maresme
Thesis Director: Juan Ignacio Valgañón Álvarez
Department: RA

Cristina Rodríguez Barbancho
Autoconstrucción para una autonomía ciudadana
Thesis Director: Erik Soles Brull
Department: RA

CLAIRA ROSELL MENA
Una mirada al futuro: propuesta de resignificación del espacio parking
Thesis Director: Juan Ignacio Valgañón Álvarez
Department: RA

JULIA SÁEZ CALABUIG
Alcohol y tejido urbano
Thesis Director: Joana Ayxendri Gairal
Department: RA

INÉS SCHLAYER ARINILLAS
Arquitectura i pandèmia
Thesis Director: Joana Ayxendri Gairal
Department: RA

RAQUEL SEGARRA VENTURA
El carácter de la arquitectura en el cinema.
Procés creatiu de Paràsits
Thesis Director: Erik Soles Brull
Department: RA

TRISTANY MANUEL SERRA LASIERRA
Arquitectura del arte
Thesis Director: Francisco Javier González Pérez
Department: RA

Inés Schlayer Arnillas
Arquitectura i pandèmia
Thesis Director: Joana Ayxendri Gairal
Department: RA

Lucía Sánchez i Domínguez
Sacra luz - la luz como elemento definitorio en el espacio litúrgico: Hyvinkää, Huutoniemi, Tapiola; la tríada de Aarno Ruusuvuori
Thesis Director: Erik Soles Brull
Department: RA

Enric Pulido Navarro
Espais inmersius: Estratègies de disseny en parcs temàtics i les seues implicacions
Thesis Director: Juan Ignacio Valgañón Álvarez
Department: RA
MARTA SESTO CASTILLA
De la ciudad a la aldea
Thesis Director: Joana Ayxendri Gairal
Department: RA

BELÉN SOLANO DOMÍNGUEZ
La memoria del futuro. La red de canales históricos de Lombardía
Thesis Director: Joana Ayxendri Gairal
Department: RA

MARCEL SUMALLA REIG
La perspectiva frontal en el cine: Kubrick como síntesis
Thesis Director: Juan Ignacio Valgañón Álvarez
Department: RA

GRISELDA VALVERDE CONILL
La casa vissuda en temps de confinament
Thesis Director: Joana Ayxendri Gairal
Department: RA

SOFÍA MARÍA VILA CLAVELL
La soltería en comunidad
Thesis Director: Joana Ayxendri Gairal
Department: RA

SHAHD ZAAROUR
Über Kunst und Krieg
Thesis Director: Francisco Javier González Pérez
Department: RA

ELISA AGUADO PÉREZ
Estudio comparado de los espacios de intercambio en las facultades de arquitectura
Thesis Director: Manuel Ferrer Sala
Department: THAC

Urbanism and Landscape

AINA BERENGUER VILÀ
La forma dels esdeveniments. La codificació gràfica com a eina per a l’anàlisi de manifestacions socials en paràmetres arquitectònics
Thesis Director: Francesc Peremiquel Lluch
Department: UOT

MARC BOSCH I VON HOFF
La composició d’una atmosfera. Relacions entre el llenguatge arquitectònic i musical
Thesis Director: Francesc Peremiquel Lluch
Department: UOT

IDAIA CERRUDO BOADA
Els fonaments de la ciutat
Thesis Director: Francesc Peremiquel Lluch
Department: UOT

ANNA DE LA CRUZ FORCADELL
Teatre i Evolució: La caixa escènica i l’escenografia dels espais
Thesis Director: Francesc Peremiquel Lluch
Department: UOT

MARJOLINA, MARIE, LUOMILLA DE LA POIX DE FREMINVILLE
La hospitalidad, cómo influye en el espacio del hogar
Thesis Director: Francesc Peremiquel Lluch
Department: UOT

LAURA DÍAZ SÁNCHEZ
The heritage fragments in the contemporary city
Thesis Director: Francesc Peremiquel Lluch
Department: UOT

ANASS EL KATRA
Circular formations (Turning into an architecture)
Thesis Director: Francesc Peremiquel Lluch
Department: UOT

ARNAU FARRÀS BUSQUETS
Millora de façana d’habitatge de protecció oficial mitjançant estructura autoportant
Thesis Director: Francesc Peremiquel Lluch
Department: UOT

TAMARA FERNANDEZ CORTES
La Arquitectura del movimento colectivo erudito
Thesis Director: Francesc Peremiquel Lluch
Department: UOT

VICTOR GALERA PUGA
Optimizando la vivienda del mañana. Rígidez frente a flexibilidad
Thesis Director: Francesc Peremiquel Lluch
Department: UOT

HELENA GALLEGOS SANZ
Nus cicidó. Posibilidades i limitaciones constructivas
Thesis Director: Francesc Peremiquel Lluch
Department: UOT

SILVIA GARCIA CAMPS
La domesticitat als estudis d’Arquitectura
Thesis Director: Francesc Peremiquel Lluch
Department: UOT

MANEL GARRIGÓ ESQUERDA
El paper del lloc en l’Arquitectura. Alternatives a la ciutat genèrica
Thesis Director: Francesc Peremiquel Lluch
Department: UOT

IGNACIO GERO DE LUNA
Reprogramando la ciudad. Gasolineras: lugares de oportunidad
Thesis Director: Francesc Peremiquel Lluch
Department: UOT

RICARD GILI MENENDEZ
Biofilia, impacto y aplicación en arquitectura sanitaria
Thesis Director: Francesc Peremiquel Lluch
Department: UOT

CLAIRA GONZÁLEZ I ARNAL
Los centros históricos en la ciudad global: Identidad, patrimonio y espacio público.
Casos de estudio en Ciutat Vella
Thesis Director: Francesc Peremiquel Lluch
Department: UOT

GERRARD GUILLÉN GARCÍA
Habitat el Subsòl. Estudi sobre les capacitats de futur de l’arquitectura enterrada
Thesis Director: Francesc Peremiquel Lluch
Department: UOT

JAVIER MANÉN FERNÁNDEZ
Arquitectura de la intimidad. El jardín privado de Luis Barragán
Thesis Director: Francesc Peremiquel Lluch
Department: UOT

JORGE RUI RUI
Pedres amb arrels. L’arquitectura de Querol, tradició i innovació
Thesis Director: Francesc Peremiquel Lluch
Department: UOT

PABLO PENSA MOTA-ANGELES
La ciudad ideal
Thesis Director: Francesc Peremiquel Lluch
Department: UOT
Technology

**AUTHOR**  Magdalena Ruiz Cordero

**TITLE**  In the search of a Zero Architecture: using grasshopper for the design of a Zero Energy Library in California

**PORTFOLIO**  https://lena8ruiz.wixsite.com/portfolio

**TUTOR**  Manuel Ferrer Sala

**COURSE**  2019-20

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From top to bottom: First 3D model (3D model 1) created with Rhinoceros with a roof inclination over 15º; Second 3D model (3D model 2) created with Rhinoceros with a roof inclination over 30º among some flat areas.

From left to right, clockwise: program volume concept, court-yard and surroundings influence, division into 3 compact volumes and circulation, and solar radiation influence and definition of the best incidence angle.

DIVA methodology and code with grasshopper. Each logarithm has been used for both samples, naming them as Model 1 and Model 2.

San Benito’s County Library, Level 1, scale 1:200

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Theory, Design and Representation

AUTHOR: Marc Modelell Rodríguez
TITLE: The disciples and the master. The footprints of Mies van der Rohe in Chicago
PORTFOLIO: https://marcmodelell.wixsite.com/website
TUTOR: Jordi Ros Ballesteros

Course 2019-20

Chronological frieze showing the relations between important historical milestones and the trajectory of the disciples
**Urbanism and Landscape**

**AUTHOR**  Alba Baroja Fernández  
**TITLE**  The forms of urban growth of Prague and the site of the city. Study of the relationship between topography and urban morphology of the capital of the Czech Republic  
**PORTFOLIO**  https://barojaalba.wixsite.com/portfolio  
**TUTOR**  Manuel Ferrer Sala  
**COURSE**  2019-20

Growth of the suburb of Malá Strana and the creation of the old city. Historical plan of the year 1200 and 1388, designed by Václav Vladivoj Tomek

Map of Prague, 1791

Map of Prague with all types of urban growth identified in this work

Map of Prague, 1811-1816

Map of Prague, 1842-1845

Map of Prague, 1847

Map of Prague, 1858

Map of Prague, 1791

Map of Prague, 1811-1816

Map of Prague, 1842-1845

Map of Prague, 1847

Map of Prague, 1858

Map of Prague, 1842-1845

Map of Prague, 1847

Map of Prague, 1858

Smíchov on imperial impressions of Cadastre maps from the year 1860

Background-figure of Smíchov

Smíchov in 1938 published by the Municipality of Prague, made by the building authority of the capital of Prague

Urban interpretation of growth of the map of the urban development of Smíchov between 1860 and 2017
Final Thesis
(2010 Educational Training, in extinction)

FINAL THESIS STUDIO
Department of Architectural Design | PA
LIST OF WORKS https://upcommons.upc.edu/handle/2117/79454

Architecture & Infrastructures

COORDINATOR Carme Ribas
LECTURERS Oriol Clos, Eduard Miralles, Ton Salvadó, Ángel Martín (seminar)

After four years at the School, during which the students have been gaining experience in the workshops responding to the situations set by the professors, in this workshop (Infrastructure & City) we aim to improve their skills in posing questions, and so to define the wordings of the proposals for work on urban transformation scenarios. It is understood that the architect’s basic tools have been developed over the previous years (inevitably supervised and responding to accurately delimited demands by the professors), and it is now time to submerge the student in the real complexity of decision-making on our environment. It is time to open the focus and add new gazes (often coming from other professional sectors or even non-professionalized collectives), to train students in a working environment much closer to what they will encounter in their future professional life.

We talk about ‘Infrastructure & City’ because they are two inseparable concepts. The collective management of energy supply and waste disposal, as well as people’s mobility and that of goods needed for individual and communal life have been and still are decisive elements for the construction of our urban environment and are also key in supporting public space. We also think that the embryo of new opportunities to rethink the city comes into being around infrastructures (active or disused), including recycling criteria for pre-existing structures. In fact, housing and infrastructures are the foundations of any given city. Any other component depends on or is intimately related to these two aspects.

The general theme of this workshop is, thus, the same as that of ‘Infrastructure & City’, but this time the focus is placed on the technological development of specific architectural proposals related to infrastructures. We start with a general diagnosis made by the students during the previous workshop. The lecturers’ programs determine a specific location for the projects to be developed, and a plot in relation to the program and its volumetric and environmental parameters.

The goal is to develop the projects technically, from the constructive, structural, climatic and energy saving standpoints. This development does not need to be comprehensive throughout the project. We encourage students to go deep into some of these technical aspects by intensifying the definition of just the most significant fragments of their projects. The final formalization of the project must be coherent with the technical decisions made.

Architecture & Invention

COORDINATORS Margarita Costa, Alfred Linares
LECTURERS Amaya Caballero, Lucrecia Calderón

First, the workshop wants students to reflect on the project work they have done at the school, as well as on the knowledge gained in architectural practices or similar. The aim is to learn to put themselves into context, that is, to find their place within the architectural sector, be conscious of their experience. This is the first step towards taking responsibility for being an architect.

Secondly, we study the relationship between architecture and territory, what we understand as ‘landscape’ or ‘urban area’. This is an important aspect to consider when talking about the relationship between architecture and location. It entails an implied reflection on the different dimensional working scales that
the architect always uses. In other words, a non-differentiation between urban and architectural projects.

The third aspect has to do with matter, understood as constructive and structural systems, indispensable components of the project’s essence.

Finally, we deal with representation systems as the essential tool in the design process, one that allows for a summary of each of the project phases. Due to the nature of the project proposed, the representation of the project surroundings becomes a key factor in the design process.

Architecture & Complexity

**COORDINATOR** Xavier Albet
**LECTURERS** Albert Albareda, Ferran Sagarrà, Xavier Solsona, Mario Cuevas (teaching support)

PFG_ACX is a large-scale Project Workshop, metropolitan even, where the site is broken down and analysed in groups before each student works on their projects individually.

During the last two years we chose the theme jointly with the Urban Architecture & Heritage Area of Barcelona city council. The goal was to establish an academic collaboration and to put students in touch with the social and professional reality. The themes chosen were: to recover the Rec Comtal (river Besòs) and the Canal de la Infanta (river Llobregat)—both water infrastructures, to turn these historic infrastructures into blue/green routes.

Within this collective project, every student must choose a site and a program, as if it was a free assignment linked to the project as a whole. In the first term, they have to develop a preliminary plan; the use of artistic criteria and means will be specially assessed. In the second term, in contrast, they will need to work on the projects, with everybody’s involvement, believing that the reflections on every project are the items that should fill the backpacks that students need to take home with them. Architecture is a complex and unitarian reality.

The course aims to develop the students’ individual critical thinking. Thus, they are able to demonstrate their personal autonomy and responsiveness before the interference and challenges posed by any given project.

Architecture & Diversity

**COORDINATORS** Enric Mir, Ana Zubelzu
**LECTURERS** Núria Miralles, Carlos Muñoz, Mar Pérez

The course works with the potential of architecture to resolve problems. Faced with the challenges of the 21st century, we seek to pinpoint a conflict that architecture may be able to resolve. Every student chooses and analyses an urban or territorial setting, identifies a space of conflict, and tries to resolve it through architecture.

We seek the need for architects, their skills to improve their surroundings and people’s lives, where the client is the city. We value the collective good over the individual. The questions posed are: WHERE and WHY, and we finally come across a WHAT that solves the problem, or at least gives us perspective or makes us think. Therefore, the site and the program are free for the students to choose, not so the theme. And under this premise we have projects that work on concepts such as the limit, the identity, a new relationship with the landscape, the connection or the idea of civilizing... We do not have a site or a building, we have a theme to develop. We use a workshop format, making collective comments on the projects, with everybody’s involvement, believing that the reflections on every project are the items that should fill the backpacks that students need to take home with them. Architecture is a complex and unitarian reality.

The course aims to develop the students’ individual critical thinking. Thus, they are able to demonstrate their personal autonomy and responsiveness before the interference and challenges posed by any given project.
NÚRIA ARREDONDO VERGARA
Poblenou 41.394/2.191. Escola d’Arts Escèniques
Thesis director: Eva Prats Guerre, Ricardo Daniel Flores
ARA ARZA CIA
Centro de tecnificación deportiva La Torrassa
Thesis director: Anton Maria Salvador Cabrè
CRISTINA AVILÉS MASA
Centro de investigación y creación de arte. Venecia, Italia
Thesis director: Jordi Ros Ballesteros
ALBERT AYMERICH BELLMUNT
Centro de revalorización de residuos intercambiador a la Torrassa
Thesis director: Anton Maria Salvador Cabrè
MARC AZCARATE LÓPEZ
Pulímpesto. Escuela de música Can Ginestar, Viladecans, Catalunya
Thesis director: Margarita Costa Trost
DAVID AZNAR MATHONNEAU
Ciudad Badia ¿Interesanta?
Thesis director: Margarita Costa Trost
PABLO AZNAR TEREÑES
Descubriendo el Torrent: Parque inundable del Molinet
Thesis director: Anton Maria Salvador Cabrè
CARLOS MARIA AZPIROZ FRANCH
Regeneración urbana del barrio de la Dona de la Colònia Vidal
Thesis director: Margarita Costa Trost
JOAN BACCAICOA CANFLANCA
Bonavista 28
Thesis director: Maria Pilar Calderon Martinez
ANDRÉS BAGUR CARRERAS
Projecte d’habitatges dotacionals a la Torrassa. Centre de creación artística de Mahón y nuevo edificio anejo
Thesis director: Jordi Ros Ballesteros
PABLO BAILAC CALVERA
Recuperando la transversalidad rural de Binéfar
Thesis director: Maria Pilar Calderon Martinez
LARA BÁRCENA GASS
Ateno y Teatro Laboratorio. Rehabilitación y ampliación de un conjunto fabril en Poble Nou
Thesis director: Eva Prats Guerre, Ricardo Daniel Flores
ADRIÀ BARDAGÍ I FELIP
El cas Bon Pastor
Thesis director: Ana Zubelzu Viarje, Enric Mir Teixidor
MARC BARELLA RIBERA
Habitatges per a estudiantes en el cas antic de Reus
Thesis director: Eduard Bru Bistuer
TOMÁS BARREIRO VESCOVO
Centro Cultural A Penificadora (Vigo)
Thesis director: Sergi Serra Casals
LUCAS BARTOLOMÉ CEBOLLERO
Estación de Confranc
Thesis director: Margarita Costa Trost
MARC BELLES LLOBET
Nova Facultat de Medicina campus clínic
Thesis director: Jordi Ros Ballesteros
BEATRIZ BERTOMEU VIDAL
Transformación urbanística y millora del espais educatius al barri de Can Sant Joan, Montcada i Reixac
Thesis director: Anton Maria Salvador Cabrè
ANTÓNIO BIANCHI AIRES DE CARVALHO GALVÃO
Módulo IV Del CCB. Ampliación del Centro Cultural de Belém
Thesis director: Jordi Ros Ballesteros
RAFAEL BLANCO FLORIT
Museo de Cultura Popular de Mahón. Rehabilitación del Convento del Carmen de Mahón y nuevo edificio anejo
Thesis director: Jordi Ros Ballesteros
LAIA BOLOIX I OURRA
Tríada. Regeneración Urbana del Parc del Molinet
Thesis director: Maria Pilar Calderon Martinez
GERMÁN BOSCH DOMINGO
Isartorplätze. De la ciudad al detalle
Thesis director: Jordi Ros Ballesteros
JOAQUÍN BOSCH GINER
Centre de drens y viver d’empreses a Gavà
Thesis director: Jordi Ros Ballesteros
LLUIS BOTELLA CALBET
Nov Parc de Les Aigües a Montcada i Reixach. Definició dels límits del Rec Comtal i el Riu Besòs
Thesis director: Xavier Llobet Ribeiro
FAIZA BOUTABOUZI
Thèrmes Urbaines Saffretjos en Santa Coloma de Gramanet
Thesis director: Maria Pilar Calderon Martinez
JOSEP LLUIS BUADES DURAN
Con Trinxet, Escola de Disseny y Arts Plàstiques a l’Hospitalet
Thesis director: Anton Maria Salvador Cabrè
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Reordenació Urbana i intercanviador al nord de Reus
Thesis director: Ana Zubelzu Viarje, Enric Mir Teixidor
ANDREU CABALLER LÓPEZ
Bixample un teixit fibrilar: Centre d’excursionistes del Massís del Ports a La Sénia
Thesis director: Ana Zubelzu Viarje, Enric Mir Teixidor
JUAN CABALLERO RAMOS
Un respiro en el tejido compacto de la mujer. Valle de Alcántara - Lisboa
Thesis director: Anton Maria Salvador Cabrè
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Projecte Ilturo. Equipament cultural de la Dona de la Colònia Vidal
Thesis director: Jordi Ros Ballesteros
MARC CAMPOY SÁNCHEZ
Estació intermodal. Mercat central i nou focus de la ciutat
Thesis director: Margarita Costa Trost
SÍLVIA CAMPS RÉFÉ
Lleida. Centre d’interpretación de l’horta
Thesis director: Margarita Costa Trost
MATÍAS CANTARERO MARTÍNEZ
“Mar i terra” - Centre cultural y residencia per artistes al barri d’Es Jonquet
Thesis director: Eduard Bru Bistuer
JULIA CAPEL DE LA CHICA
Pavelló d’entitats de suport i acció contra les violències masclistes al Passeig Picasso, Barcelona
Thesis director: Margarita Costa Trost
NIL CARBÓ GARDELLA
Reordenación urbana a l’àmbit de Cala Sants, Sant Feliu de Guixols
Thesis director: Ana Zubelzu Viarje, Enric Mir Teixidor
DIEGO CASAL LORENZO
Rehabilitación y ampliación de la Bóbila Carmen como escuela infantil y nuevo casal de entidades del barrio de la Teixonera
Thesis director: Sergi Serra Casals
POL CASELLAS MANRUBIA
Reordenación del Moll de Marina y ampliación del Centre Municipal de Vela al Port Olímpic de Barcelona
Thesis director: Ana Zubelzu Viarje, Enric Mir Teixidor
CRISTIAN CASTELA GONZALEZ
Centro de salud y centro de atención a la mujer. Valle de Alcántara - Lisboa
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MIQUEL CASTELLA CESARI
Alberg i centre comunitari a l’antig Casal de la Dona de la Colònia Vidal
Thesis director: Sergi Serra Casals
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Projecte Ilturo. Equipoamiento cultural
Thesis director: Jordi Ros Ballesteros
JULIA GRAS COLLADOS
Centre Cívic i Cultural “La Vora”.
Reconectem Safareigs amb el Béssis
Thesis director: Maria Pilar Calderon Martínez

OSCAR GUILLEN CALMETTE
Entre els horts i la ciutat
Thesis director: Anton María Salvadó Cabrè

ORIOL GUIU MASSO
Residència per a Gent Gran (20 interns)
amb servel de Centre de dia (40 pers.)
Habitatge Tutelat per a gent gran (18 pers.)
a l’illa de Can Carreter de Montmelò
Thesis director: Sergi Serra Casals

ANA GUTIÉRREZ FERNÁNDEZ DE CALEYA
Equipament cultural per a joves d’acollida,
trobada i formació.
Revalorització de la Peu Cinturé i obertura al XIXè
Thesis director: Sergi Serra Casals

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Ateneu de Fabricació. Espai de lleure infantil i 24 habitacions dotacionals per a gent jove en l’àmbit de l’antiga fàbrica Colores Hispania al Carrer de Pere IV
Thesis director: Sergi Serra Casals

ÁLEX HEREDIA MUÑÓZ
Palamós connectat. Urbanització del litoral de Palamós i construcció de la nova terminal de creuers
Thesis director: Xavier Llobet Ribeiro

IRENE HUERTA CANO
Nuevo centro de Sant Feliu de Llobregat
Thesis director: Ana Zubelzu Vairje, Enric Mir Teixidor

ALBERTO IANNE
Edifici d’usos mixtes a Can Ricart
Thesis director: Sergi Serra Casals

GÉNIDA
Centro Cívic Albert Francés.
Conexió de la plaça amb el Hospital de l’Esperit Sant
Thesis director: Maria Pilar Calderon Martínez

SERGI JIMÉNEZ OLLÉ
Rehabilitació i ampliació de l’Ateneu Santsboí. Centre sociocultural, teatre i sala de concerts
Thesis director: Sergi Serra Casals

ROSER JONÀS LLURADÓ
Subeixant barreres. Recuperació del front del riu a Trinitat Vella
Thesis director: Anton María Salvadó Cabrè

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Pont escala a Palamós. Nova terminal de creuers a Palamós
Thesis director: Xavier Llobet Ribeiro

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UN NUEVO LÍMITE. Redinamización de Letten Areal, Zúrich
Thesis director: Ana Zubelzu Vairje, Enric Mir Teixidor

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Centre d’investigació i Recerca dels grans llacs. Port Huron, Michigan
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LA COMUNIDAD CORRAL.
Sobre el Passatge Ratès de Poblenou
Thesis director: Eva Prats Guerre, Ricardo Daniel Flores

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El camí de la Riera. Parc de la serradada de Marina.
Rehabilitació a Can Mòra
Thesis director: Margarita Costa Trost

ARNAU LLABRÉS FORNER
Matryoshka
Thesis director: Eduard Bru Bistuer

MARINA LLADÓ OLIVER
Almada. Balcó al río y conexión con la ciudad
Thesis director: Ana Zubelzu Vairje, Enric Mir Teixidor

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Biblioteca a l’antiga estació de la Magària
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Entre el borde y la ciudad
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Reordenación Urbana. Recuperación del Rec en Trinitat Vella
Thesis director: Xavier Llobet Ribeiro

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Centre de barri i habitatges a Sant Pere i Santa Caterina
Thesis director: Jordi Ros Ballesteros

MARIONA LÓPEZ SENSADA
Creant al mar
Thesis director: Ana Zubelzu Vairje, Enric Mir Teixidor

ELISABETH LUCAS LAGE
Nou Tràfla
Thesis director: Eva Prats, Ricardo Flores

JUAN JOSÉ LUYENGUE RUIZ
Institut botànic de Palma
Thesis director: Ana Zubelzu Vairje, Enric Mir Teixidor

ALBA LUQUE NAVAS
Segona fase del parc de la Torrassa: una nova façana
Thesis director: Anton María Salvadó Cabrè

ENRIC MANILS MENGUAL
Noves piscines cobertes i ampliació del centre poliesportiu a Montmeló
Thesis director: Sergi Serra Casals

PAU MANUBENS ESTADELLA
Recuperación de l’edifici de l’antiga fonda de Can Coronel per ampliar el Centre d’Art Contemporani de Can Sisneró a Santa Coloma de Gramenet
Thesis director: Sergi Serra Casals

MANUEL MANZANO PRIETO
Góriz. Ampliació i meyora del refugi de alta montanya de Góriz
Thesis director: Sergi Serra Casals

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Institut a Múnic. Del carrer a l’aula
Thesis director: Jordi Ros Ballesteros

CLAUDIA MÁRQUEZ SALA
L’Hospital. Projectant situacions límit
Thesis director: Anton María Salvadó Cabrè

MATEO MARISCANO LAVITULA
Residència d’estudiants i + habitatges per a gent gran
Thesis director: Jordi Ros Ballesteros

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Canal de la Infanta - Casal d’avís, escola bressol i habitatge a l’Hospital de Llobregat
Thesis director: Xavier Llobet Ribeiro

JUAN MARTÍNEZ BONET
Conexió del barri del Bon Pastor y urbanización del Turó del “Hospital de l’Esperit Sant”
Thesis director: Anton María Salvadó Cabrè

ALEJANDRO MARTÍNEZ CALVO
El nou vestíbul de Lisboa - Estació intermodal Campolide i edifici d’equipaments i habitatges
Thesis director: Anton María Salvadó Cabrè

GLORIA MARTÍNEZ PICORNEEL
Centro de interpretación en la Reserva Natural de Sa Albufereta
Thesis director: Margarita Costa Trost

ANDREA MAS GARCÍA
Continuidad natural. Equipamiento i parc fluvial al riu Arvó
Thesis director: Ana Zubelzu Vairje, Enric Mir Teixidor
MIREIA MASO MARTÍNEZ
L’arquitectura com a motor de canvi. Bihimbedi, Nepal
Thesis director: Margarita Costa Trost

CHRISTOPHER MATIENZO CHIO
CultiLAB. Espacio de innovación
Thesis director: Maria Pilar Calderon Martinez

GUILLERMO MAYOL LORIDO
Laboratori Multimedia pel Conexeiment
Thesis director: Jordi Ros Ballesteros

ALBERT MENA PÉREZ
Proyecto de nueva construcción de una Biblioteca en Can Ginestar
Thesis director: Jordi Ros Ballesteros

LIDIA MONTAÑA FIGULS
La casa de la Patum, centre cívic i museu a Berga
Thesis director: Margarita Costa Trost

FERRAN MONTESINOS JORI
Cosiendo Heridas: Fábrica y Comunidad Teatren
Thesis director: Eva Prats, Ricardo Flores

LUÍS MONTOLIU MUÑOZ
Els 3 Sants, el conflicte com a oportunitat. Un nou centre a la metrópolis
Thesis director: Margarita Costa Trost

ALEJANDRO JOSÉ MORA MARTÍN
Residència Campus Besòs
Thesis director: Eduard Bru Bistuer

FERRAN MORA TOMÁS
Vapor Türalı, Sabadell
Thesis director: Eduard Bru Bistuer

LAURA MUNTAÑA VILLANUEVA
L’Ateneu de Sarratí. Equipament juvenil i 26 habitatges socials a la cantonada entre el carrer Hort de la Vila i la Via Augusta de Barcelona
Thesis director: Jordi Ros Ballesteros

ANA ISABEL MUÑÓZ GUILLEN
INTRAMUROS 016 en l’Hospitalet de Llobregat
Thesis director: Anton Maria Salvadó Cabré

ALBERT NAVALPOTRO BUSCIAL
Complex Esportiu Magòria
Thesis director: Jordi Ros Ballesteros

LAURA NESTAR BUFI
Residència de temporada a Eivissa
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ANDREA NICOLÁS MARTÍN
La Torressa, Nova Centralitat Metropolitana. Escola de Mitjans Audiovisuals
Thesis director: Anton Maria Salvadó Cabré

MARC NICOLÁS CASAS
Unió i expansió de l’espai públic de la ciutat. Andorra la Vella, Andorra
Thesis director: Ana Zubelzu Viarje, Enric Mir Teixidor

XAVIER NICOLAU SANSÓ
Museu de la perla a l’antiga fàbrica Majòrica de Manacor
Thesis director: Sergi Serra Casals

ANNA NIUBO BERMEJO
Tríada. Regeneració Urbana del Parc del Molinet
Thesis director: Maria Pilar Calderon Martinez

SARAI OLABARRIETA MORALES
Particular del Norte
Thesis director: Eduard Bru Bistuer

JAVIER OLACIA MANGE
Escuela Secundaria en Múnich “Horizontalidad como divisor urbano”.
Thesis director: Jordi Ros Ballesteros

MARIA OLIVER RUBERT
Llar Residència i Centre Ocupacional per a persones amb discapacitat a Sants
Thesis director: Eduard Bru Bistuer

FRANCESCA OLIVER SUREDA
Equipaments infantils a Can Carreres, al Parc Central de Nou Barris. Rehabilitació de la masia i construcció d’una escola bressol, un espai familiar i un equip d’utenció a la infància i l’adolescència.
Thesis director: Sergi Serra Casals

JUAN OLLER GARCÍA
La caps de llibres
Thesis director: Ana Zubelzu Viarje, Enric Mir Teixidor

ADRIÁN OLMO MORA
L’H Centre. Reforma urbana i nova centralitat a l’intermodalitat d’Hospitalitat Centre
Thesis director: Anton Maria Salvadó Cabré

ANNA ORDEIG VIVET
Un nou xeue fora muraletes Habitatge tutelat i centre d’interpretació de la indústria pellettera a Vic
Thesis director: Eduard Bru Bistuer

GUILLEM ORÓ GRAU
OASI: Mercat gastronòmic i centre cívic a Lleida
Thesis director: Ana Zubelzu Viarje, Enric Mir Teixidor

NICOLAS OVEJERO VELA
La Central del Mar. Rehabilitació de la nave de turbinas de la Central Tèrmica de Sant Adrià del Besòs a un centre de convencions
Thesis director: Margarita Costa Trost

ELOI PALLAR LESCÓS
Intercanvador a Alcàntara-Mar
Thesis director: Anton Maria Salvadó Cabré

MIGUEL BENJAMÍN PALMER PEÑA
Llobregat Gastronomic Center
Thesis director: Xavier Llobet Ribeiro

JORDI PALOU MUÑOZ
Re-pensar O Vale de Alcântara
Thesis director: Anton Maria Salvadó Cabré

ANDREA NICOLÁS MARTÍN
Redefiniendo la conectividad con Tajo: un nuevo centro de turismo de la central térmica de Sant Adrià del Besòs a un centro de convenciones.
Thesis director: Jordi Ros Ballesteros

Jorge PIGEM DE PALOL
“El Sindicat” arts, formació i cultura a Banyoles
Thesis director: Eduard Bru Bistuer

SERGI PÍNEIRA PASCUAL
La via verde del Canal de la Infanta: connector de corredors
Thesis director: Xavier Llobet Ribeiro

DANIEL PLASENIA MARTÍNEZ
Centre d’interpretació de la natura i la cultura. Renaturalització de la riera de la Bisbal
Thesis director: Jordi Ros Ballesteros

AINA PONS MARCH
Triada. Regeneració Urbana del Parc del Molinet
Thesis director: Maria Pilar Calderon Martinez

OLGA PONS TORRAS
L’escletxa del parc. Recinte Cultural i entrada al Parc Puigterrà de Manresa
Thesis director: Eduard Bru Bistuer

ROBERT PEIRÓ CARRERA
Apropant comunitats. Amb la rehabilitació de San Carol transformant-lo en espai d’intercanvi i la creació de 20 vivendes al Carrer de la Farigola
Thesis director: Sergi Serra Casals

ALBERT PEREZ PALOS
Rehabilitació i Ampliació de la Torre Salbana en Centre Agrari del Baix Llobregat
Thesis director: Sergi Serra Casals

Virginie NAZARET PÉREZ DI POLITO
MART. School of Art
Thesis director: Margarita Costa Trost

Guillem Peris Chavarría
Nova façana a Bot
Thesis director: Jordi Ros Ballesteros

OCTAVE, LUIS, OLIVIER, MARIE PETIT
Freses. Rehabilitació i ampliació de la torre dels Frases de Montcada en nou equipamento de puerta de entrada al Parc Nacional de la Serralada de Marina
Thesis director: Sergi Serra Casals

La Torrassa, Nova Centralitat
Thesis director: Eduard Bru Bistuer

Outsider Art
“El Sindicat” arts, formació i cultura a Banyoles
Thesis director: Eduard Bru Bistuer

Aina Pons March
Triada. Regeneració Urbana del Parc del Molinet
Thesis director: Maria Pilar Calderon Martinez

Olga Pons Torras
L’escletxa del parc. Recinte Cultural i entrada al Parc Puigterrà de Manresa
Thesis director: Eduard Bru Bistuer

Marta Oliver Rubert
Re-pensar O Calçada-Mar
Thesis director: Anton Maria Salvadó Cabré

Anna Ordeig Vivet
Un nou xeue fora muraletes Habitatge tutelat i centre d’interpretació de la indústria pellettera a Vic
Thesis director: Eduard Bru Bistuer

Sergi Piñera Pascual
La via verde del Canal de la Infanta: connector de corredors
Thesis director: Xavier Llobet Ribeiro

Daniél Plasencia Martínez
Centre d’interpretació de la natura i la cultura. Renaturalització de la riera de la Bisbal
Thesis director: Jordi Ros Ballesteros

Aina Pons March
Triada. Regeneració Urbana del Parc del Molinet
Thesis director: Maria Pilar Calderon Martinez

Olga Pons Torras
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Thesis director: Eduard Bru Bistuer

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Ateneu l’Horatge
Thesis director: Maria Pilar Calderon Martinez/ Sergi Serra Casals

MIQUEL BENEDITO RIBELLES
Allotjaments sobre el Pont del Molinet
Thesis director: Maria Pilar Calderon Martinez

MARÍA CONCEPCIÓ BERENGUER URRUTIA
Habitaciones propias. Historias de transiciones, visibilidad y existencia
Thesis director: Maria Pilar Calderon Martinez

TANIA CASTANHEIRA GOMES
Rondas en plural
Thesis director: Maria Pilar Calderon Martinez

SARA CASTANY RIO
Rehabilitació i ampliació de la residència de gent gran Sant Roc a Belver de Cerdanya
Thesis director: Sergi Serra Casals

VÍCTOR DE LAS HERAS VILA
Ampliació d’Hangar i nova escola d’estudis superiors, d’arts visuals, a Can Ricart
Thesis director: Sergi Serra Casals

CRISTINA VILLANUEVA DÍAZ
Simbiosis. Vivero Lúdico Ambiental
Thesis director: Maria Pilar Calderon Martinez

ENRIC VILAVIEJA MARTÍNEZ
À caminó de Monsanto
Thesis director: Anton Maria Salvador Cabré

ANDREA XICOTA SOLER
Mercat 22@. El mercat arbart
Thesis director: Margarita Costa Trost

VÍCTOR ZORITA OTAL
Casa de les lletres i habitatge dotacional al 22@
Thesis director: Eduard Bru Bistuer

ESTHER MARTÍNEZ FUENTES
Renaturalització del espai públic
Thesis director: Maria Pilar Calderon Martinez

ASHOT MATINYAN PATTYAN
Ronda per viure
Thesis director: Maria Pilar Calderon Martinez

GEMMA MONTANÉS CARTRÓ
Nova escola bressol a Sant Just Desvern
Thesis director: Sergi Serra Casals

EVELYN PAOLA MONTES NEGRETE
PASAJES. Recreación de un espacio de creación artística y la futura Llibreria
Thesis director: Maria Pilar Calderon Martinez

ISMAEL MORENO LORENZO
Desemboçant un nou Front: Conector metropolità
Thesis director: Maria Pilar Calderon Martinez

ASIER OVEJAS AKETXE
Escola Fem Safaretjos
Thesis director: Maria Pilar Calderon Martinez

NADAL PERELLÓ FIOI
Rehabilitació i ampliació de les tres naus que abracen l’espai socio-formatiu
Joana Barceló al casc antic de Palma
Thesis director: Sergi Serra Casals

EDUARDO RODRÍGUEZ I MARTÍNEZ
Ampliació d’Hangar i nova escola d’estudis superiors, d’arts visuals, a Can Ricart de Sant Feliu de Llobregat
Thesis director: Maria Pilar Calderon Martinez

GABRIEL ROMERO FOSSAS
Centre d’Interpretació del Besòs al recinte de piscines de Sant Adrià
Thesis director: Sergi Serra Casals

GISELA ROVIRA HERRERO
Residència per a gent gran i casal infantil al nucli antic del Poblenou
Thesis director: Sergi Serra Casals

VIRÓNIA RUANA JORDET
Rehabilitació i ampliació de la Cooperativa Agrícola Sant Isidre a la Fatarella
Thesis director: Sergi Serra Casals

MARÍC ROBADO ALEGRE
Rehabilitació i reforma per convertir l’antic molí en un espai de creativitat artística a L’Hospitalet de Llobregat
Thesis director: Sergi Serra Casals

CRISTINA VILLANUEVA DÍAZ
Simbiosis. Vivero Lúdico Ambiental
Thesis director: Maria Pilar Calderon Martinez

JUAN SEGUÍ GARRIGA
Parc i Aparcament a Gavà i Viladecans
Thesis director: Maria Pilar Calderon Martinez/ Sergi Serra Casals

ANTONI SUÁREZ GONZÁLEZ
Rehabilitació i reforma per convertir l’antic molí en un espai de creativitat artística a L’Hospitalet de Llobregat
Thesis director: Sergi Serra Casals

OLEGUER TEIXIDOR DEL RIO
Rondes en plural
Thesis director: Maria Pilar Calderon Martinez

NEUS VALDELOU BIFET
Rondes en comunitat
Thesis director: Maria Pilar Calderon Martinez

JAUME VICOLA PACHÓN
Reutilització de la Central Tèrmica de Sant Adrià del Besós en Museu d’Art Contemporani
Thesis director: Sergi Serra Casals

ALÈXIA ALCARAZ DÍEZ
Reconstrucció del espai a Sant Adrià
Thesis director: Margarita Costa Trost

CLAIRE ALMEDIA COLL
Treballant la terra
Thesis director: Margarita Costa Trost

BERENICE AÑEIROS OTERO
Recuperación de la fábrica Cosme Toda y el Canal de la Infanta, un passeig per el paisatge alternatiu de L’Hospitalet
Thesis director: Margarita Costa Trost

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Centro Cívico y Cultural Almogávares 133 - Cultura en el interior de manzana
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Biblioteca Cun Ginestar - Viladecans
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SERGI AZORÍN FERNANDEZ
Nov complex esportiu i cultural a Valcarca
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SARA BELLÉS VALLET
Pardos, rehabilitació social d’un despoblat
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Escola de cuina i hostaleria a Vilanova i la Geltrú
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MARC CASTÀNO SEGÚI
Pantelleria
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OSCAR CELADES PIÑOL
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GUILLERMO FERRER CABALLERO
Filmoteca de Budapest
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CLAUDIA GARCÍA DEL VAL
Un camí entre els murs i la vegetació. Centre del Patrimoni Rural de Nou Barris
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Centre rural a Cervelló. Rehabilitació i ampliació d’una masia
Thesis director: Margarita Costa Trost

OMAR GONZALEZ GUJARRO
Museu de Memòria Històrica d’Alacant
Thesis director: Margarita Costa Trost

MAGDA ISART BOSCH
Reordenació urbana a Poblenou: habitatge cooperatiu en cessió d’ús i equipament públic al Passatge Trullàs
Thesis director: Margarita Costa Trost

ROSA LLINÁS QUERALT
Arxiu modernista i sales de treball a la Casa Tosquella
Thesis director: Margarita Costa Trost

VIDAL MADRÍA GUÍTART
Ateneu Cultural i Associatiu de Sant Hilarí Sacoil
Thesis director: Margarita Costa Trost

ALBERTO MAESTRO MORATO
Kintsugi. Centro de artes plásticas en Sevilla
Thesis director: Margarita Costa Trost

ANNA MARQUÉS LÓPEZ
Centre Cultural Drassanes. Una fuga més de Ciutat Vella
Thesis director: Margarita Costa Trost

POL MARTÍNEZ PÉREZ
Parque de Bomberos del Besós. “Un Besós más seguro”
Thesis director: Margarita Costa Trost

LAIA MONTSERRAT CORTÁZAR
Habitatges per a gent gran amb serveis comunitàris oberts al barri a Sant Just Desvern
Thesis director: Margarita Costa Trost

NOELIA NAVARRO MORA
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Red Hook Public Library
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Un claro en el Bosque: Centro para la salud y el placer mental
Thesis director: Margarita Costa Trost

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Passeig de ribera i CAP a Palafolls
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Veles e vents. Proyecto de Reforma del “Moll d’en Bolleu” en el Fronte Marítimo de Port de la Selva
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Habitatges i escola al barri de La Sagrera
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BIANCA SUÁREZ STECKELMACHER
Oasis en la urbe
Thesis director: Margarita Costa Trost

NÚRIA TARRÉS ROSELLÓ
Els camins de l’aigua. Recuperació paisatgística de Ses Feixes i Nou Centre de Visitants
Thesis director: Margarita Costa Trost

ALEJANDRO TINTORÉ KING
East Harlem: Recuperando el alma de “El Barrio”
Thesis director: Margarita Costa Trost

SILVIA VILA BOIX
Via Augusto, Via Nostra: Espai Jove i Hotel d’Entitats a Sarrià
Thesis director: Margarita Costa Trost

ZHENGYU XI
Pueblo urbano y ciudad rural
Thesis director: Margarita Costa Trost

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Recuperación de la Colònia Ymbern, antigua colonia tèxtil a Orís
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Costura
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Can Saperre s’obre a Premià de Mar
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UK Holocaust Museum
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Sospir de sal; cabanes al bosc
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ALBERT RENAU MENDOZA
Fembre morta: Recorregut musealític de la guerra civil a l’entorn de l’Anoia
Thesis director: Jordi Ros Ballesteros

ANDREA SERRANO MAZA
Patchwork urbano
Thesis director: Eduardo Bru Bistuer

EDITH SOBRINO GRIVÉ
Teatre i art. Intervenció al casino del Masnou
Thesis director: Jordi Ros Ballesteros

CARLOS CARCERENY BURGOS
Reorganització urbana en el barri de Sants
Thesis director: Anton María Salvadó Cabrè

MARTA EDO DIAZ
Nova estació ferroviària a Sant Quirze del Vallès i reorganització de l’espai existent
Thesis director: Anton María Salvadó Cabrè

ARIANA ESTELA ANDREU
Cup y centro de día en Pl. Molina
Thesis director: Anton María Salvadó Cabrè

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EMILIO-JAVIER GARRIDO PERALTA
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ÁLVARO MARTÍNEZ PÉREZ
Porta a Monsanto: Intervenció d’adequació al sector líbreta del Caneiro de Alcântara, connexió dels nodes Monsanto-Alvito-Alcântara-Prazeres i proposta d’equipament esportiu i espai públic
Thesis director: Anton María Salvadó Cabrè

MIREIA PARERA SABORIT
Sota la infraestructura, l’espai oblidat. Nou espai lúdic-creatiu a Montcada i Reixac
Thesis director: Anton María Salvadó Cabrè

POL PUJOL MOLL
Una parada urbana a Montcada i Reixac
Thesis director: Anton María Salvadó Cabrè

RAÚL ANTONIO SALLÁN FERRER
Rehabitar la “Cortá de Chapina”
Thesis director: Anton María Salvadó Cabrè

ALBERTO SANCHE MONTAGUT
De Pere IV al Besòs: Club esportiu a Sant Adrià
Thesis director: Anton María Salvadó Cabrè

PABLO SORIA CLAP
De barrera arquitectònica a centro urbano, parada de Montcada - Ripollet
Thesis director: Anton María Salvadó Cabrè

ALBERT SORIANO DE HARO
Proposta de reunificació del barri de Mas Rampiño a Montcada i Reixac
Thesis director: Anton María Salvadó Cabrè

ALBA TOSCAS FRADE
Transformació de l’entorn ferroviari entre Santa Eulàlia i La Torrassa
Thesis director: Anton María Salvadó Cabrè

RE-PRODUCTAR EXISTENT
Nova estació ferroviària a Sant Quirze del Vallès i reorganització de l’espai existent
Thesis director: Anton María Salvadó Cabrè

SANTQUITZEE: RECONSTRUCTING THE EXISTENT
Nova estació ferroviària a Sant Quirze del Vallès i reorganització de l’espai existent
Thesis director: Anton María Salvadó Cabrè

CAP Y CENTRO DE DÍA EN PL. MOLINA
Cup y centro de día en Pl. Molina
Thesis director: Anton María Salvadó Cabrè

DE BARRERA ARQUITECTÓNICA A CENTRO URBANO, PARADA DE MONTCADA - RIPOLLET
De barrera arquitectònica a centro urbano, parada de Montcada - Ripollet
Thesis director: Anton María Salvadó Cabrè

TRANSFORMACIÓN DE L’ENTORN FERROVIARI ENTRE SANTA EULÀLIA I LA TORRASSA
Transformació de l’entorn ferroviari entre Santa Eulàlia i La Torrassa
Thesis director: Anton María Salvadó Cabrè
This Master’s in Architectural Science from Barcelona School of Architecture, also known as a ‘qualifying master’s’, is part of an integrated academic program that, after the Degree in Architecture, enables the student to practice as an architect within the EU.

The MArqEtsaB training is oriented towards providing all knowledge on architectural practice that architects need to master to develop their skills with security and competitiveness. It finishes with the submission and defence of a Final Thesis.

Academic Staff

Educational Training
The MArqEtsaB educational program is designed to be studied over the course of a year. It has a total of 60 ECTS, 20 ECTS of which are core to the master’s, 10 ECTS of optional courses and 30 ECTS for the Final Thesis.

The MArqEtsaB can be studied in the mornings or the afternoons and has three possible specializations: Theory and Project, Technology and Project and Urban Planning Project. These three branches offer specific academic programs that also differ from morning to afternoon, therefore, the student can choose between six different specializations.

Program
Mornings
COORDINATOR Alberto Peñín
In the mornings, the three master’s branches share critical reflection themes and approaches, conferences and activities through the course Theory and Practise of Urban and Building Design. Intensive workshops are privileged occasions for crossed discussion on projects from the three branches, with the contribution of visiting professors of great standing.
As with the skills needed for professional practice, this master’s explores specific specializations. The workshops differ in their methodology, proposals for projects, and emphasis on the corresponding working scales. We rely on the experience of professors of great professional standing and on the academic involvement of Barcelona’s Urban Planning Lab (LUB) and the Cátedra Blanca Barcelona (White Cathedra, Barcelona).

Afternoons
COORDINATOR Jaume Valor
In the afternoons, intended for students working in the mornings, each branch enjoys autonomy and specialisation and students can choose the focus for the work they will carry out throughout the course. In this sense, the core subject Theory and Practise of Urban and Building Design is taught for each of the three branches in the form of specialised learning capsules, closely linked to the course objectives and given by experts in each specialty.
The core subject Theory and Practise of Urban and Building Design is fully focused on professional practice, with contents and procedures not addressed during the degree. Likewise, the three branches share a teaching staff that is highly qualified in construction, structures and building services, which guarantees the cross-curricular quality of the projects.
CROSS-CURRICULAR COURSES

Theory and Practice of Urban and Building Design

Mornings

LECTURERS Alberto Peñín, Jordi Oliveras, Maria Rubert de Ventós

The function of this subject is to supplement the Final Thesis Workshop that takes place on Wednesdays and is the core activity of the course. This is a unique space of the master’s because it enables a series of subsequent activities in relation to the role of architecture in contemporary society.

Architects need to understand an ever more complex reality, and not just by measuring the efficacy of their performance. As an agent and privileged observer, they give answers, but can also propose questions. It is important to recognize the global and synthetic vision of the problems, mirroring what professional practice will look like, and this course is a time reserved to do so.

Technological and Structural Building Systems

Mornings

HEAD PROFESSOR Carlos Alonso Montoliu
TEACHING STAFF Jaume Alentorn, Ignacio Sanfeliu

The main objective is to teach the students the basic, general, cross-curricular and specific abilities needed to make decisions grounded on abstract and conceptual aspects.

The activities of the first part of the course are based on the identification of those systems that make up the building, to quantify them; to classify, describe in simple terms and conceptualize complex systems; summarize and hierarchically organize processes, etc. all from real and built projects. During the second part, it will focus on the pre-dimensioning and control of the project’s on-site work.

We will look into the technological systems of the final thesis project applying the approximation techniques and pre-dimensioning learned during the first part. We must also take into account the strategies applied to the commencement, on site layout, time scheduling and document management adapted to the requirements of the various types of student projects.

Afternoons

HEAD PROFESSOR Marc Seguí
LECTURERS David López, Núria Miralles, Santi Velasco

The aim of the subject is to supplement the knowledge acquired during the Bachelor’s degree in line with current Building Regulations and the Technical Code. It also aims to outline technical problems and their potential solutions in relation to Project Management in all its phases (preliminary design, design development drawings, construction documents and site management).

The topics for the lectures on theory are agreed by the head professors of the three thematic areas: construction, structures and building services. Lectures are given by specialists in each subject. The course content includes theory and practical exercises.

The course includes 25 sessions of theory supplemented with an intensive workshop where groups of students will be faced with everyday realities in decision making with regard to aesthetics, technicalities, budget, environment, etc.

OPTIONAL SUBJECTS*

Architectures in Architectures [M]
Introduction to Research [A]
Housing and Sustainability: Physical Rehabilitation and Social and Urban Regeneration [M]
Modelling Techniques and Digital Production for Constructive Solutions Development [A]
Processes, Instruments and Procedures of the Urban Planning Practice [M]
Contemporary Architecture. Study Tour
Structural Projects in Architecture [M]

*Optional subjects are open to all Master’s students. They are taught in the mornings [M] or the afternoons [A].
The Thesis builds from a series of multidisciplinary workshops made up of the knowledge acquired through the degree courses, from skills directly related to professional practice and the rest of the courses of the master’s. It represents a unique opportunity for a synthesis of knowledge from a cross-curricular standpoint, where the project is an instrument for analysis of the physical reality as well as a proposal for transformation, always from the perspective of its cultural meaning. Workshops cover real, close case studies that allow students to gain a deeper understanding and acquire the skills needed for their professional practice, including dealing with the parties usually involved in architectural or urban planning projects.

Contrary to professional practice, where many of the requirements are already set, in the MArqEtsaB the student defines the project’s location and functional program, within the scope of the course proposal and in relation to the research subjects specific to each of the branches. The workshops invite the students to choose subjects of personal interest, which they will present at the beginning of the course.

The projects will entail both diagnosis and specific critique. From this standpoint, the student’s appropriated positioning before the city and the territory, the environment, technique and society will be evaluated. The course focusses on: environmental sustainability (from an energy, resource consumption, economic and social standpoint); the relationship between buildings, the city and the urban space; the role of technology on the architectural significance, and the project’s development and quality control processes.

01. Theory and Project

Mornings

**HEAD PROFESSORS** Eduard Gascón, Mara Partida

**INSTAGRAM** @marqetsab_mib

This line of specialization emphasizes the reflective approach to the project, implementing architectural critique as an indispensable task within the activity of designing. This operational critique, implicit in the material culture of site works and some projects, allows us to educate the senses, to delimit the problems and encourage the seeds of the project. Instead of the usual way of working from partial or inaccurate approaches to problems, the training that the study of reference works entails unveils the secrets of our trade where, at best, defining the problem becomes part of the solution.

Each edition will face current core issues in territories with strong urban and landscape links. This allows the student to choose from a wide range of projects within the same scope of activity (shared with the Technology Project branch). Programs of certain complexity and social impact, architectures inserted in new urban settings, interventions on built heritage, or architectural projects that take into account the landscape and open and public spaces will be encouraged. Ideally, programs will be mixed, such as dwellings combined with work, commercial, cultural or educational premises.

Afternoons

**HEAD PROFESSORS** Enric Mir, Ana Zubelzu, Tània Magro

**INSTAGRAM** @marqetsab_pfc_proj_teo_tarda

We will work on the idea of the need for architects and their ability to resolve conflicts. We understand the architect as the agent able to diagnose the city’s problems and to build solutions, valuing the collective good over the individual.

The location is not defined; neither is the program. The student’s research goes beyond the discovery of the location and the definition of the program to pinning down one need in the city that will improve the life of its inhabitants. Architecture’s role should not be so much to build as to diagnose, understand, resolve and regenerate. To this end, architects need to develop their critical thinking in order to react to the challenges posed by any project.

Every student chooses and analyses an urban or territorial setting, identifies an area of conflict and designs an intervention that solves the problem to the extent possible. Therefore, the WHERE, as a diagnosis, the WHAT, as a strategy, the HOW, as a proposal, and the WHY, as an explanation, are the key questions of the workshop.
Interpretation Center of the Chemical Industry of Tarragona

**AUTHOR** Andrea Palomino de la Fuente  
**TUTOR** Eduard Gascón, Mara Partida  
**JURY THEORY-PROJECT** Mateu Barba, Elena Fernández Salas, Josep Lafont, Marta Llorente, Josep M. Montaner, Montserrat Nogués  
**WORK** Full project available here: http://hdl.handle.net/2117/333125

The project aims to rehabilitate the complex of agricultural warehouses in the ‘Pou Boronat’ urban area, on the northern outskirts of Tarragona. These warehouses, now abandoned, will host the Interpretation Centre for the Chemistry Industry in Tarragona. The choice of the program is based on two facts. On the one hand the foreseeable close relationship between the new residential area (ARE) and the URV campus Sescelades and on the other hand the acknowledgement of the role of this industry through the history of Tarragona and its territory. Moreover, the global conception of the project itself comes as a result of a earlier investigation about the traditional architecture of that area: the dry stone architecture. This investigation lead to a further consideration on the approach taken when intervening in the site, being aware of our contemporaneity but still holding on to the values that this traditional Mediterranean architecture taught us: water management, shading, sustainable management of natural resources, etc.
01. Theory and Project

2018-20 Studies
Degree in Architecture and Qualifying Master's Degree in Architecture
Master's Degree in Architecture

Reconnaissance. Site

Urban planning. Model

Urban planning. Plan
Sections of the main nave

Cross-section
Longitudinal section

Secondary naves.
South elevations:

Elevation N3 S

Elevation N2 S

Elevation N1 S

Current Status. Pictures

Site

Floor plans

Level +46.50
Level +43.50
Level +39.50
Intermediate space

Archive consultation room

Section D. Connections

Section E. Connections

Plan of level +46.00. Connections

Outer space between N2-N3.
Connections

Access to the north center.
Connections
Axonometry structure. Roofs

Elevation of Nave 2. Classrooms

Section of Nave 2. Classrooms

Exterior and interior surfaces
Mask and Movement.
Nishinippori, Tokyo

**AUTHOR** Cristina Marco
**TUTOR** Enric Mir, Anna Zubelzu
**JURY THEORY AND PROJECT** Eduard Bru, Héctor Mendoza, Anna Codina, Carmen Escoda, Ana María Noguera, Carme Ribas

On the topographical limit between the upper city and the lower city of Tokyo, which traces radially the main railway line, Yamanote, a theatre highlights the peculiarities of the site. It lays between the physical and the virtual in a place that is not space but space-in-time. The building mimics its surroundings: a triangle of isolated pleasure, set apart from the two cities that touch it by 14 railway tracks that draw lines on the ground and the sky. It does so in three moments: one that is matter, a second that is air and one last that is neither one nor the other but where they meet, in between. The triad follows a scheme of movement modulation that comes from the tradition of Japanese theatre, Jo- Ha-Kyu: Jo (序) refers to precedent, Ha (破) to break and Kyu (急) to climax. Bounded by the skin (limit) and a core made of void, the building is interstice: body and exchange, between an inner reality and a rather messy urban scene.

Like the masks of Noh theatre, which reveal a different emotion according to the movements of the actor or relative position of the spectator, the building, comprised between three of the tracks that float high, is a different one for each of the places from which it is perceived, reached and wandered; thus, the whole building is theatre and scene, within the urban space and in innards. Sometimes the play happens in the center, static, and the spectators surround it. Sometimes, the configuration is reversed: the scene circulates everywhere around the spectators. Sometimes, the limit between the two is blurred and they have the entire city as a curtain. Then, it becomes a shadow play for the urban space.
Ground floor. While the façade facing the avenue is kept flat and impenetrable, the one in the back alley is folded inwards to shelter the entrance. A passage connects both.

The central void structures the scene of the whole building.

Fifth floor. The intermediate floors contain all the program that serves the scene (camerinos, changing rooms, rehearsal rooms, scenography ateliers, etc.) The stairs that hang from the slabs and float across the void are thought as vertical scenario for dynamic performances.

A big coloured wall facing south turns perpendicular to the train above the back alley. The central void is contrasted with a plinth of very heavy mass, where the entrance takes place.
Elevation site plan and north elevation of the theatre. The building base expresses mass while the superior curtain—like translucent skin expresses lightness. The structure that merges both previous structural logics and material conditions is revealed above the roof of the building.

Draft volumetric model seen from the avenue.

The circulation happens around the void as scenic space as well, like the void and its surroundings are.

South elevation. The coloured lattice is made of tubular solar collectors that heat water for the building.
Notes on contemporary and Japanese theatre

The Noh mask

Bird eye collage of the theatre on its site

Very initial atmospheric intuitions from the avenue
Section. On the left, the train of the alley very near the building and the heavy mass of the bar that weights above the entrance. The empty void goes from the heavy base to the lightest heights. On the top, one of the performance spaces. To the left, the avenue and the silent train that floats 17m above it. A very long but narrow window on the avenue’s façade reveals not the train but its movement as colour sparks.
Structural logic of the building.
The tridimensional element on top sits on the concrete and all the intermediate metallic slabs hang from it.
Axonometric constructive detail of the translucent curtain-like façade and the flat transparent façade of the performance space on the top.
02.

Urban Planning Project

Mornings

HEAD PROFESSORS  Maria Rubert de Ventós, Olga Felip, Alex Giménez

The Final Thesis Workshop Urban Planning/Landscape/Management [M] is dedicated to projects that try to solve urban and suburban situations of a certain scope and complexity. Each edition of the workshop proposes a general scenario and lines of work. The program consists of the evaluation of the conditions of a place and its surroundings, as well as their history and the expectations of those that inhabit and use them; an analytical gaze that triggers a proposal for transformation and improvement of the pre-existing features. It will be developed as an urban planning and landscape project that can vary in dimension and approach. In each case, specific projects must be delimited to transform and define a new land division and building rules. This will be done with an attitude complicit with what is already there, and a contemporary perspective on green and open spaces. The masterplan and projects studied in every final thesis foresee the most contemporary exercise on urban planning, linked to the use and transformation of pre-existences and the improvement of the environment, and offers them a specific space in the architect’s formal studies: a final thesis that becomes a detailed and proven representation of the construction and reconstruction of a place which entails urban planning and open space projects.

Afternoons

HEAD PROFESSORS  Stefano Cortellaro, Xavi Llobet, Joaquín Sabaté INSTRAGRAM  @marquetsab_ut

The workshop tackles the challenge of inspiring the recovery of obsolete areas, where the scale of the intervention makes the commitment between urban planning regulation, public space and architectural project essential. The analysis (territory, structural support and settling) must help to choose the best options to boost a territory in decline: what to preserve, transform, renovate or replace within urban and territorial recycling strategies. It is fundamental to value the historic memory of the place depending on diverse scenarios. The challenge of influencing the reshaping of a unique and complex territory—with a rich past and an uncertain future—is posed given the obsolescence of the activities that shaped it. The themes to be addressed will be based on a propositional analysis of the place, imagining interventions that entail building new premises, to recover built heritage or to value natural and cultural resources. The main objective is to understand that every project simultaneously involves the environment, social and economic context, discussion on programs, selection of activities, creativity, technology and argumentative discourse.

Trinitat La Bella

AUTHOR  Gilén Txinxturreta Beitia
TUTOR  Josep Parcerisa, Àlvaro Clua JURY URBAN PLANNING PROJECT  Marta Bayona, Josep Maria Carreras - AMB, Jaime J. Ferrer, Enric Massip, Josep Parcerisa

Trinitat Vella is getting renovated. The Administration foresees the demolition of the prison buildings and the planning of a system of housing blocks. After his first approaches to Trinitat hill from Sant Andreu, Gilen concentrated on proposing a planning alternative which would take into account and complete the projected program as well as add new horizons: from the very first drawings we can see it working as the bridgehead of some routes that, as antennae, connect Trinitat with the whole close north quadrant where he finds the most interesting landscaping; the Besòs river surroundings and Can Zam Park on the other side. His proposal resourcing to the closed block and goes for a buttressed architecture, accomplice of an expressive intention put forth as dramatic connections with far off but reachable landscapes.

Gilen is a proactive student and very able to build his own graphic universe, painstaking and evocative at once. We could add remarks here and there... but having him always the power to integrate them. He very soon defined the main characteristics of his project and since then the process of study and modifications has allowed him to present a complex but at the same time well thought-out proposal.

A few days from the presentation, we understand it will surely confirm this impression. Anyway, before it happens, we need to state that his contribution to the workshop has been sustained and referential to others so, he deserves the merit of a discreet but clear leadership.

Josep Parcerisa Bundó, Professor or Urbanism and Regional Planning, UOT
The nodes of the system
La Quinta Forca. Location and evolution

Trinitat Vella and its surroundings
Master Plan

Strategies
Sections and visuals

New Trinitat Vella square I

General floor plan
Floor plans sectioned by levels

New Trinitat Vella square II
Crossing I

Crossing II
Weaving Water

AUTHOR  David Esplugà
TUTOR  Joaquim Sabaté, Stefano Cortellaro, Xavi Llobet
JURY URBAN PLANNING PROJECT  Miquel Corominas, Stefano Cortellaro, Cristina Gastón, Eulàlia Gómez-Escoda, Xavier Alarcón
WORK  Full project available here: http://hdl.handle.net/2117/333050

Although the area of reflection of the course raises the set of Industrial Colonies in the course of the river Llobregat, the project turns its head, and is located in a territory where water is a value that was not present, and which instead has been built over the years. This territory is the agricultural plain of Graugés.

The Graugés Agricultural Colony was built between 1887 and 1889. An intense system of exploiting the value of water was established in it. With the water from the Avià and Fontcaldes rivers, and through a network of canals, with open-air pipes and underground pipes, it is possible to store this water from the snow and rain of the Pyrenees, in a set of lakes: the "Estanys de Graugés".

The project aims to recover the layout of one of the most important hydraulic structures in the region, by recovering the roads that accompany it, as well as a new proposal for uses for the agricultural activity closest to the course of water.

The rehabilitation of the buildings of the old Agricultural Colony of Graugés represents an opportunity to redefine the relationship between the water and the landscape of the territory. The reinterpretation of this agricultural productive space from the union of different uses is considered a space linked to the agricultural landscape, and that contributes to the modernization and understanding of this agriculture as a pole of investigation.

Therefore, the project aims to enhance and intensify the architecture of water with the activation of the new agricultural, patrimonial and environmental uses linked to the water infrastructure. These items will give to the Colony a new vocation totally linked to the surrounding territory, as at the time of its construction. In short, make the territory of Graugés understandable.
The central point of the intervention is the Estanys de Graugés and the surrounding buildings. The rehabilitation of the old agricultural colony of Graugés represents an opportunity to redefine the relationship between water and the landscape of the plain.
The project rehabilitates the buildings of the Colony, respecting to the maximum the values of the current spaces and activating all its elements, with reversible construction, with sustainable materials, and making them energy self-sufficient.

The project proposes a low-density territorial development to ensure permeability between the new buildings and the surrounding agricultural landscape.
The buildings near the lakes served the agricultural work that was carried out throughout the Colony, and are organized around a rectangular courtyard.
The interior paths of the Complex are built from the continuities between the different spaces and their uses, relating the different activities that take place in these buildings.
La Central is a research center and business incubator. The building is organized with a wooden piece of furniture, a building within a building itself, distinguishing a space in-between.

The building is built by a longitudinal inner street in ascending diagonal as a continuation of the outer routes of the territory. The older buildings of the Colony are used as greenhouse spaces as an extension of the agricultural research center.
The project recovers the spaces of contact with the water, with a new proposal of playful activities.
Graugés is the place chosen by Jorge Wagensberg to spend long seasons of time, and where he was inspired to write aphorisms such as: "If nature is the answer, what was the question?"
03.

Technology and Project

Mornings

HEAD PROFESSORS Alberto Peñin, Judith Leclerc

The branch understands technology from the standpoint of balance between its central role on the origin and development of the project and its deep sense, linked to an objective; transforming the design process into a path for self-discovery. Emphasis will be placed on key matters of the current discourse such as sustainability, digital tools and industrial systems, understood in their cross-curricular nature and scales, but always as components of a more complex design process. Thus, 'Making is thinking' (Sennett) becomes not just an antidote to what is baseless, but transcends the trade and the purely constructivist fact to gain a cultural dimension. Each edition will face current core issues in territories with strong urban and landscape links. This allows the student to choose from a wide range of projects within the same scope of activity (shared with the Project-Theory branch). Programs of certain complexity and social impact, architectures inserted in new urban settings, interventions on built heritage, or architectural projects that take into account the landscape and open and public spaces will be encouraged. Ideally, programs will be mixed, such as dwellings combined with work, commercial, cultural or educational premises.

Afternoons

HEAD PROFESSOR Jaume Valor, Jaime Blanco

INSTAGRAM @marquetsab_emergenciaambiental

This branch works on the architect’s ability to understand, evaluate and communicate the environmental effects of design decisions. To do so, we will go into depth in the project as a non-linear process, simultaneous in its three scales: Topos, Typos and Tectonic. The course themes are: environmental sustainability (climate change, resource depletion, energy, waste and health), the role of technology in the significance of architecture (construction, structures and building services), the evolution of residential use (new typologies, co-housing, etc.) and premises (hybrid, mixed-uses, etc.) and the phases and processes, documentation, valuation and communication of the project. In the workshop, we develop technological and environmental aspects of the students’ thesis projects previously agreed with the professor. These aspects refer to the relationship that architecture has with the place, the use and the technique, especially its cultural component and environmental impact (with the aim of designing healthy buildings with a positive energy balance, negative CO₂ emissions and zero waste by 2030).

Living with the Residue

AUTHOR Itziar Cabe Laguna

DEGREE IN ARCHITECTURE ETSA Donostia San Sebastián (EHU/UPV)

TUTOR Alberto Peñin, Judith Leclerc

JURY TECHNOLOGY AND PROJECT Pere Joan Ravetllat Mira, Maria Rosa Clotet i Juan, Cristina Pardal March

The new Petrochemical Research Center in Tarragona means to develop the city’s chemical industry. It is located on a previous urban infrastructure, the roundabout connecting A-7 and N-240 roads, which ensures both great connections and new urban limits that will help linking all new neighborhoods to the north of the city. For this purpose, proposed solution is based on a pedestrian and vehicular architecture at different scales. Building’s definition is based on future issues between industry and its workers; it intends to create a space where research and social concern toward plastic are mixed together. The space will hold different types of activities: from work to culture, including reflecting towards Petrochemical’s industrial landscape.

Project strategies The proposal comes from two existing problems. First, urban infrastructures, which were initially outside the cities and are now part of them. Second, climate change and its related worry about the future of the industry in Tarragona.

Urban infrastructures Cities evolve adapting to each time needs. El Camp de Tarragona, former off the borders area, now needs to become part of the city, increasing its area and providing service. It needs to be well connected to avoid future isolated neighborhood that often tend to be forgotten by population and local administrations. Given this, connections between neighborhoods become key pillars of this project. Urban transformation of infrastructures such as roundabout will provide connectivity links and will become communication spots. Roundabouts converted into urban locations with social and economic presence, becoming part of the connection between the following adjacent neighborhoods: Universitat Rovira i Virgili, Hospital Universitari de Joan XXIII and ARE del Pou Boronat.

Petrochemical industry The city of Tarragona grew in the sixties, and also did maritime traffic due to chemical production, which lead to it being the main economical source of the region. Many industries were built and it became the main plastic producer across Spain (44% of the production was here). The city suffered many changes due to the increase of job offers for local citizens. Nowadays, we are living in a climate emergency era, with plastic life cycle being one of the main problems. Cities like Tarragona have been producing this plastic and now is the time to work on revoking its mass production impact. However, plastic ban threats nearly 35,000 jobs from local population, becoming a potential trigger for an economic and social crisis. For this reason, a looking forward solution is needed, and that is how the new Petrochemical Research Center in Tarragona arises. It will hold investigation towards the future of industries, promoting waste reuse as one of many opportunities.
The need of the new infrastructure
Urban Axonometry: Residential Area of the ARE of Pou Boronat

Proposal on an urban scale. Urban strategies

Pedestrian view

Diagrams
Elevation with nearby surroundings.
Urban proposal

Sectional axonometry of the program.
Relationship with the surroundings and public use

Urban Implantation

Driver's view

Ground floor with nearby surroundings.
Urban proposal
321

View of the inner courtyard

Program

Flows inward / outward

Degree in Architecture and Qualifying Master's Degree in Architecture
2018-20
3. Technology and Project

Sustainability. Climate resources
Unfolded elevation of the exterior facade.
Production of photovoltaic energy and evacuation of rainwater.
Installations.
WHAT SHOULD WE BE TEACHING?
A REFLECTION AROUND THE QUALIFYING MASTER’S DEGREE IN ARCHITECTURE
Jaime Coll-López
Associate Professor, Department of Architectural Design, PA

“So, what should we be teaching? Many pedagogical experts argue that schools should switch to teaching the four Cs’—critical thinking, communication, collaboration and creativity. More broadly, schools should downplay technical skills and emphasize general-purpose life skills. Most important of all will be the ability to deal with change, to learn new things, and to preserve your mental balance in unfamiliar situations. In order to keep up with the world of 2050, you will need not merely to invent new ideas and products—you will above all need to reinvent yourself again and again.” (Harari, 2018)

Yuval Noah Harari proposes Critical Thinking, Communication, Collaboration and Creativity as key aspects of teaching in the 21st century. Furthermore, pointing to 2050, he identifies 3 situations a person will need to be ready to face: deal with change, learn new things, and preserve their mental balance in unknown situations. The Qualifying Master’s Degree of Barcelona School of Architecture, throughout its 4 years of history (2015-19), has preserved these 4 key aspects as the backbone of its methodology. The principle was not only to prepare architects for their standardisation as freelance professionals but also check their degree of maturity, their ability to manage complex contemporary situations: the outskirts of Barcelona city, border conditions, new users, reprogramming of obsolete industrial spaces, hybrid programs...

Critical Thinking
Pedagogues agree in 2 facts: information is widely available to youngsters, and more than half of the available positions in 2050 are currently unknown. Along the same lines as Harari, the pedagogue Henry Giroux develops the concept of Critical Pedagogy, demanding the training in critical thinking: “they [the teachers] do not have to train them for their future jobs, but the kind of society they want to live in.”

The teaching of architecture has often swung between opposing models (Fine Arts and Polytechnic schools, academicism or experimentation, abstraction or realism) and the division of disciplines in the form of courses and departments. Training in Critical Thinking is surpassing the model based on dichotomies and hermetic areas of knowledge, which is more typical of previous centuries than the Liquid Times of the 21st century, where concepts are fluctuating, ambiguous, slippery. The program of the 4 years old Qualifying Master’s Degree at Barcelona School of Architecture has tried to get past that model based on areas of knowledge in order to work crosswisely on the following concepts:

[1] Border territories. The studied territories were 4, 3 in the edges of Gran Via (“Gran Via at its Limit”, as aptly entitled them Josep Parcerisa and Alvaro Clua), and then the ring roads, as significant articulating infrastructure: La Verneda (border between Barcelona and Sant Adrià del Besòs), From Sant Roc to the Thermal Power Station (between Badalona and Sant Adrià), Gran Via-Bellvitge (between Hospital and the river Llobregat), and the ring roads (border between Barcelona and its metropolitan area, “Un-covering the Ring Roads”). They are territories characterised by being a boundary, border territories where interesting fluxes of exchange take place. Even though cartography draws a clear line between what is urban and what is not, the reality of the territory shows us a stripe were vacant lots are predominant, those territories that are not landscape anymore but have not reached the status of city yet, and where dimensions are essential: “we should not think of the peripheral voids as areas to be designed in themselves [...] Maybe we

should leave them without form, but acknowledging their abstract value as ‘distance’, and using this distance as a compositional argument for the peripheral urban form”.

[2] The Ordinary. The methodology consists on observing and drawing what is ordinary (what is trivial, quotidian, popular, the existent landscape, etc.) of those places and represent it as extraordinary elements.

[3] The Reprogramming or restructuring of industrial and tertiary spaces of obsolete industrial estates to reactivate them as new spaces with the potential to be dwelled by new users; the rehabilitation of housing in industrial estates, dormitory towns, to supply them with the comfort they never had; mixed-use programs or hybrid buildings where two or more programs collide to produce a new relationship, spatial or programmatic condition (Holl, 2011).


Collaboration
Also, in 2 areas: [1] Internal collaboration: work in the studios, team building, collaboration and distribution of tasks, crosswise collaboration between departments. [2] External collaboration: the course establishes links with public bodies, management professionals and architects with an alternative career path and professional practice. Strategy, public management, cooperatives, cultural activism, environmental management, communication...
are topics of the course on professionalism directly presented by their protagonists. The University-Industry Forum, a session where different events take place and external companies offering an industrial mentoring participate, is a clear example of useful and needed external collaboration. Of special interest was the collaboration with Regional Barcelona throughout the session 2018-19, ‘Un-Covering the Ring Roads’, when the topic was shared with 6 schools and a Hackathon was organised.

Creativity

“We are all born creative! It is not something divine. It is something natural, that we train. In the end, creativity consists on making things, nothing more.” (Ferrán Adrià). In the Final Thesis Studio we have worked crossbreeding the conceivable (the conditions of the place: physical, social and environmental) with the abstract (project, environmental and technological strategies) to obtain proposals exploring/pondering over the next 25 years of those border territories. The student had to develop the design of a mixed-use (housing and facility) building of a medium scale that would serve the neighbourhood and become a model for the city as a whole. Furthermore, we expected the project to be comparable, as far as possible, to a real one in all its technical and documentary dimensions, not leaving experimentation and research aside being the case that these are provoked and encouraged from the university and the academia.

As Theodor W. Adorno put it, I believe in ‘labour’ as a useful tool to design; a quick, spontaneous answer to a one-off issue... It is a learning exposed to error, to uncertainty, and is where creativity comes out. We consider the project the sum of 12 ‘labours’, the answer to 12 tasks that set out the rules for the course. Is a classic in pedagogy: from the 12 labours of Hercules in Greek mythology to the 12 exercises by Rafael Moneo in the course ‘Compositional Elements’ of Barcelona School of Architecture between 1971 and 1976. Quick answers (every fortnight), of a one-off nature (linear coherence with previous materials is not indispensable) and sometimes ambiguous, in ‘ever changing’ contexts which acquire precision and range when put together. Some of these essays are: ‘Space vs location’, ‘Location and scenarios’, ‘Form and program’ or ‘The tiple scale’.

Communication

With the objective to train architects to be able to manage future complex, unexpected situations, communication within the master’s was developed in 2 areas: [1] Internal communication: constantly presenting in public the project’s narrative, in short and dynamic formats, precise as the PechaKucha, or exploring other means such as the video. [2] External communication: to publish, expound, and disseminate in social media. The 4th module of the Final Thesis Studio is entirely devoted to the edition and communication of the project.

Finally, 2 supplementary aspects, not in the least unimportant, are the follow up of good projects to submit them to competitions and the students’ counselling on what they can do once they become full-fledged architects whether they have an academic curiosity (grants, postgraduate studies…) or professional (recommend architectural practices, reference letters, help on interviews…). Likewise, the visit of ex-students that have been successful in their career paths as young architects is essential to spread optimism and confidence, as well as to have close models that can guide them on the ever more complex task of clearing themselves the path towards a tremendously competitive professional or academic world.
The MBArch or Master’s Degree in Advanced Studies in Architecture-Barcelona is a postgraduate program (60 to 90 credits) that focuses on the contemporary architectural and urban project. It combines a set of programs with extensive experience that our university offered previously and that had a high level of international recognition, in a new integrated master.

It offers eight lines of specialization: “Urban Management and Valuation”, “Urbanism”, “Project, Process and Programming”, “Theory, History and Culture”, “Technological Innovation in Architecture”, “Architecture, Energy and Environment”, “Architectural Renovation and Conservation” and “Contemporary Project” (this last line entirely taught in English), all of which are taught by renowned professors and architects, one of the most significant aspects of the MBArch is its transversal organization, a unique aspect within of the current postgraduate programs within our academic field, which offers some flexibility to our students to enrich their itineraries within the graduate course, adapting better to their individual interests in research and professional practice.

Urban and Architectonic Management and Valuation
Urbanism
Project, Process and Programming
Architecture, Energy and Environment
Theory, History and Culture
Technological Innovation in Architecture
Architectural Renovation and Conservation
Contemporary Project

From the subject ‘Urban and Regional Analysis and Planning’

SPECIALIZATION LINES

Urban and Architectonic Management and Valuation – GVUA

ACADEMIC COORDINATION Josep Roca
PROFESSORS LIST Blanca Esmaragda Arellano, Rolando Mauricio Biere, Jorge Bosch, Maria Pilar García, Carlos Marmolejo, Carlos Pérez, Francesc Valls
WEB https://mbarch.masters.upc.edu/lineas-master/gestion-y-valoracion-urbana-y-arquitectonica/

The MBArch’s specialization line in Urban and Architectonic Management and Valuation (GVUA) gives continuity to the previous Master in Urban Management and Valuations (MGUV), realized since 2006-7, with a long tradition in other previous academic programs.

In its nine editions titled more than 200 students and on June of 2014 received the distinctive mention International Master’s Program (IMP) for masters taught in Catalonia, granted by the Executive Committee of AGAUR, of the Catalan Government.

his track offers the necessary training complements for the PhD Program in Urban and Architectonic Management and Valuations, unique in Spain in this specialty, with a long and recognized academic and scientific career.
In this sense, the line trains researchers in urban planning, land management, urban assessment and real state, especially on urban territory and architecture, integrating disciplines such as urban land management, property valuations, environmental impact studies and assessments, geographical information systems, and the application of the new information and communication technologies and telecommunications in the analysis and management of the city, including remote sensing, 3D modelling and virtual reality.

Traditional disciplines (architecture, geography and economics), do not confront the fields at the frontier of different fields of knowledge with sufficient emphasis. Urban planning and management of the city and the economic, social and environmental evaluation of urban transformations, as well as urban sociology, are examples of these disciplines, lying at the frontier between traditional subject areas, which have not obtained sufficient attention in the official study plans. Therefore our line aims to fill this existing deficit in our house.

Subjects
- Urban Sustainability and Environmental Evaluation Methodologies
- Urban and Architectural Management and Valuation Research Seminar
- Regional and Urban Economy
- Urban and Real-Estate Valuation
- Urban Policies and City Management
- City, Territory and GIS
- Urban and Regional Analysis and Planning

Urbanism

ACADEMIC COORDINATION: Francesc Peremiquel
PROFESSORS LIST: Isabel Castiñeira, Carles Crosas, Jordi Franquesa, Eulalia Gómez, Carlos J. Llop, Miquel Martí Casanovas, Ángel Martín, Joan Moreno, Zaida Muxí, Josep Lluís Oyón, Josep Parcerisa, Estanislau Roca, Maria Rubert, Joaquim Sabaté, Ferran Sagarra
WEB: https://mbarch.masters.upc.edu/lineas-master/urbanismo/

The Urbanism track of the official MBArch, taught at the ETSAB, continues the experience of the official Urbanism Master of Research, with a long tradition and international recognition.

It covers, from different perspectives, the analysis of urban phenomena. It combines research with design, specialization with interdisciplinary approaches and theory with practice, offering new interpretations and areas of original reflection.

This track offers the necessary training complements for the PhD Program in Urbanism, distinguished since its inception with the Mention of Excellence, and opens therefore the possibility to continue with doctoral studies in Urbanism.

The growing complexity of urban phenomena and their interactions, the impact of new communication technologies on the relationship between city and territory, the increasingly important role at international scale, of large cities, require the elaboration of interpretation and intervention methods and instruments adapted to the new realities.

This line aims to train professionals to face the challenges of this contemporary urbanism and to attend to the development of new analysis and project tools to intervene in diverse contexts.

Subjects
- Architecture, Environment and Technology (Urbanism)
- Architecture, City and Project (Urbanism)
- Architecture, Theory and Criticism (Urbanism)
- The Territory as Architecture
- The Rules of Urban Form
- Public Space, Experiences, Projects and Policies
- Urban Planners in their Cities
- Contemporary Residential Urban Project
- Cultural Landscapes, Heritage and Territorial Design
- The Territory as Project, Territorial-Mosaic City
- Designing the City, Emerging Cities and Territories
The specialisation in urban planning comes from a long academic tradition that provides continuity to the PhD programs of three decades ago. These became an official research master’s of wide international acknowledgement at the beginning of the 21st century. This long experience has allowed us to train hundreds of professionals to face the challenges of contemporary urban planning, professionals that nowadays hold high-responsibility positions in public administrations, professional practices and academic institutions of Europe and Latin America.

This specialisation addresses the analysis of urban phenomena, combining research and project work, specialisation and interdisciplinarity, theory and practice. Two groups of renowned researchers collaborate in this specialisation: the LUB and the GRU, as well as about 20 researchers-lecturers with relevant academic and professional production.

Its main objective is to train highly qualified researchers in the field of urban planning research. This is the reason why it considers the study and academic reflection of central topics to the history of urban planning and contemporary urbanism, and the analysis and intervention methods at an urban and territorial scale. It constitutes a dissemination and debate platform for the research carried out in the Department of Urbanism and Regional Planning (DUOT). As one of its objectives is to offer the supplementary training needed to access the PhD program, it pays special attention to the growing complexity of urban phenomena, to the impact of new technologies in the relationship between city and territory, and the roll ever more relevant at an international level of big cities, circumstances that oblige the construction of methods and tools of interpretation and intervention appropriate to these new realities.

The changing reality obliges to constantly reformulate our research agenda and translating it to the academic offering. With this objective, 10 years ago we developed a map of the research topics that would be dealt with primarily, adding others that we sensed of importance towards the future. The defined categories, although wide, masked emergent tendencies. Therefore, we decided to periodically review and prioritise strategic topics, that were subsequently concretised as follows: Urban Regeneration; Energy Efficiency of Fabrics, Barcelona: 20th Century Episodes; Latin American City; Metropolis and Mobility; Challenges Associated to Climate Change; Urban Patterns of Activities in the City-territory; Objectives, Methods and Tools of the Territorial Project, and Cultural Landscapes and Local Development.

After reforms driven three years ago, the master’s program is one academic year long, even though students pursuing the PhD are advised to devote two years to the master’s in order to think through their project for the doctoral thesis.

It offers three compulsory courses and a dozen elective ones divided in two blocks: Urban Project and Public Space, or Designing the City and the Territory.
Urban Project and Public Space responds to the drawn-out experience in applied research of our lecturers. It brings up discussion on the analysis, project and construction, as well as the theoretical and instrumental grounding to address them in all their complexity. It also includes Urban Studies with a close attention to the morphologic dimension of Urban History and emerging topics on urban theory.

In the block ‘Designing the City and the Territory’ we reflect on the nature, characteristics, problems and perspectives of urban planning and its strategies and tools to intervene in the current process of urbanisation, characterised by the explosion of the city: the transformation of the traditional compact city into its dispersion throughout the territory. The name ‘Urban Planning’ includes the proposal of territorial management, complex urban systems and urban projects, to refer to the origin of a renewed reflection on contents, models, methods and tools. This leads to emphasize the idea of city & territory project versus the traditional planning.

We regularly question how to address the challenges of the metropolis and urban societies. In turn, the 1,000+ presentations given in international seminars of urban planning research, promoted by several Latin American universities and Barcelona since 2007, make up a representative sample of the most relevant topics to our discipline. All things considered, we can verify that among the challenges asking for urgent attention are those derived from climate change, the growing demand on mobility, the explosion of the city throughout the territory and the acceleration of inequality within the urban world, questions not isolated but closely related.

Tackling climate change requires learning to design taking environmental risks and opportunities. It is the responsibility of all citizens, but it is interesting to evaluate what is demanded to the professionals and researchers of our discipline. It is urgent to dig deeply in the urban implications from various perspectives: sustainable mobility, zero-energy balance of cities and neighbourhoods, resilient territories, harmony with nature, endogenous development, urban-rural symbiosis, peri urban agriculture, etc.

Another relevant topic is mobility, not so much as traffic and infrastructures management but as a citizen’s right. At an urban scale, it has to do with public transport, alternative ways of moving, or the permeability or isotropy of infrastructures, that make the city more porous and accessible to all. It is also of importance the mobility that implies great and dramatic migrations, growing with climate change and social injustice. They have always taken place in unequal territories. And this has much to do with another pivotal challenge: containing that social and economic inequality in the urban world.

But beforehand, we need to talk about the physical manifestations of that unequal city, what we have named ‘explosion of the city’. It is a fortunate metaphor that describes the patterns of new developments by polarization around big infrastructures or the spreading throughout the territory. It shows how nuclei further away from the centre grow bigger or how economic activities of less added value move to the periphery, or how the upward trend of prices in the inner-city and moving job centres sweeps along housing to farther away locations, with the subsequent fragmentation and continuous loss of natural spaces.

And if we talk about the socio-economic structure of this city, inequality grows dramatically in developed countries. The gap worsens between classes and misery, slums and urban vulnerability grow unstoppably. From trusting urban planning to guarantee a dignified space to all citizens, we have swung to currently denying it its capability of introducing social improvements or of fighting against inequality and spatial injustice. As Secchi puts it: Urban planning has a clear responsibility in the worsening of inequality, and needs to be one of the pillars of any policy to diminish it.

These challenges are specified in our approach to the discipline, in the study of unstable territories or urban dynamics, in the reflection about the urban planning project, in the implementation and decision-making tools, all of it without leaving out theoretical formulation or critical thinking. In this program, they are tackled through the surveying of cartographies and the making of graphic material which allow presenting the research progresses in a clear manner. This is an essential characteristic of urban planning in our school, where the morphological dimension becomes a basic aspect.

It is not the first time we encounter an urban crisis, and, as in previous instances, uncertainty obliges us to work in scenarios where a basic ingredient, maybe the only one permanent, is continuous change. But addressing the new urban status quo is our duty. And it is enough to think about the substantial change that the pandemic has caused, to ratify that our research agenda needs to be continuously adapted to those urban challenges that require attention, and that we need to be able to overcome the intellectual and administrative resistances to quickly translate the results of that research into our academic offer.
Project, Process and Programming

ACADEMIC COORDINATION: Xavier Monetys
PROFESSORS LIST: Eduard Callis, Elena Fernández, Jaime J. Ferrer, Pere Fuertes, Cristina Gastón, Alfredo Linares, Madga Maria, Sílvia Musquera
WEB: https://mbarch.masters.upc.edu/lineas-master/proyecto-proceso-y-programacion/

This specialization works on the architectural design project taking it to a prior stage and the decision making that it implies.

Reflecting on what motivates an architectural project is in that same line and is a way of thinking about the current role of the architects.

Its contents range from the developing of the contemporary project, construction and project managing building, to the process of designing elements for the industry and the programming of uses and logistics.

Subjects
- Architecture, City and Project
  (Project, Process and Programming)
- Architecture, Environment and Technology
  (Project, Process and Programming)
- Architecture, Theory and Criticism
  (Project, Process and Programming)
- Urban Landscapes
- Domestic
- Comparative Architecture
- Design Theory
- Project, Waste and Recycling
- Architecture and Creativity

Architecture, Energy and Environment

ACADEMIC COORDINATION: Elena Coch
WEB: https://mbarch.masters.upc.edu/lineas-master/arquitectura-energia-y-medio-ambiente/

The MBArch’s specialization line in architecture, energy and environment is oriented to research in the fields of energy in architecture through its different expressions: light, temperature, acoustics. Bioclimatic architecture, interior and urban comfort, the integration of renewable energies in architecture, and other aspects related to energy and urban morphology are object of research.

The contents of this master prepare candidates to access the phd program in architecture, energy and environment, so that the master’s degree acts as a teaching phase of the doctorate.
What we offer: The master’s program prepares students to assess the environmental impact of architectural and urban decisions on design processes, as well as to apply energy and environmentally-oriented guidelines in their projects. To do this, the master has expert teachers in different areas that accompany students in their learning process.

Objective: The objective is that students acquire a perfect control of the analysis of the energetic environments in architecture and its aesthetic and functional components, as well as its repercussion in the perception and comfort of the users. In this way, students are expected to be able to experiment, with a solid academic base, new architectural approaches.

Subjects
- Architecture, theory and criticism (Architecture, Energy and Environment)
- Architecture, city and project (Architecture, Energy and Environment)
- Architecture, environment and technology (Architecture, Energy and Environment)
- Design Perspectives
- Environmental assessment
- Energy and comfort
- Acoustics in Architecture
- Environmental impact of Architecture
- Space and light

Exhibiting: To propose curatorial policies where design between the space and its objects generates an interpretative unit.

Teaching: To train university professors specialized in the area of the theory and history of architecture.

Interpreting heritage: Provide the necessary cultural background and the basic criteria to inventory, catalogue, protect and intervene in the architectural heritage.

Subjects
- Architecture, Theory and Criticism (Theory, History and Culture)
- Architecture, City and Project (Theory, History and Culture)
- Architecture, Environment and Technology (Theory, History and Culture)
- Historiography of Art and Architecture: The last Colin Rowe (1920-1999)
- Architecture and Culture: The Literary Text and the Inhabited Space
- History, Architecture and City. Heritages: Notions, Values and Practises
- Theory of Arts and Architecture: Landmark Exhibitions
- Architectural Criticism: Production, Reproduction and Debate
- Architecture, Science, Technology: Housing and Contemporary City

Theory, History and Culture

ACADEMIC COORDINATION  Enrique Granell and Carolina B. García-Estévez
PROFESSORS LIST  Pedro Azara, Carlos Bitrián, Ramon Graus, David Hernández, Juan José Lahuerta, Marta Llorente, Josep M. Montaner, Teresa Navas, Jordi Oliveras, Antonio Piza, Antoni Ramon Graells, M. Isabel Rosselló, José A. Sanz
WEB  https://mbarch.masters.upc.edu/lineas-master/teoria-historia-y-cultura/
INSTAGRAM  @mbarchthtc

The specialization in Theory, History and Culture offers to graduates in architecture or graduates in humanistic disciplines a broad and rigorous training in the history, theory and criticism of architecture, as well as in the knowledge of the field of culture in relation to inhabited space, heritage and city.

Among the main goals, we could stand out:

Research. Search archives and other documentary sources with critical vision to hypothesize, track clues and write reports or doctoral theses.

Writing. Have a narrative and editing capacity to practice architectural criticism and prepare essays, academic articles, dissemination texts and monographs on architecture.

Carlos Navas Catalá, Theory, History and Culture Master’s Thesis: La respuesta española a la exposición Neue Deutsche Baukunst de 1942, tutor: Enrique Granell, 2020. Graphic annex and inventory of the works shown at the Exhibition and Crystal Palace in Madrid
Since its origins, modernity has privileged intellectual over mechanical work, invention over manual labour, individuality over collectiveness, the “genius” over the craftsmen, the project over the process, the instant over time. Since the mid-19th century and till the end of the avant-garde after World War II —that is, in the heights of coincidence with the peak and success of imperialist capitalism—the battlefield of that vindication was ornament. The “structure” was considered the sincere expression of the intellect, while ornament was an add-on, a mask falsifying the truth of the structure that we would need to do without. The famous writing by Adolf Loos entitled “Ornament and Crime”—symptom, as it comes, of the modern thought in so many ways, not just architectural—is the zenith of this process. But criminalisation of ornament and those who use it does not take place in a neutral world. Quite the opposite, it is part of that period when some of the worst horrors suffered by humanity took place without interruption: from the colonization genocide to the extermination camps. In a period of devastation—an era dominated by the negative prefix un (ent in German, as in entartung)—unornamentation promoted by avant-gardes is not a whim, but an essential, structural part of the great dispossession processes set in motion by the capitalism emerging from the second industrial revolution. To eliminate that intermediary element that ornament constitutes between cosmos and being is a basic piece, quite sinister, of terror processes. Avant-gardes, and architecture in particular, standard bearer of unornamentation, have a great responsibility in the 20th century horrors. Nothing further away from the word “culture” that features in the title of this master’s.

The course will introduce the other side, the dark side of the history of architecture in the period of the triumphant capitalism. Two schematic lines mark that history. One, defeated (but we will see up to what extend), protector of ornament, represented by Pugin, Ruskin or William Morris. It connects theorists such as Owen Jones or Rieg; trends such as, in general, the Art Nouveau, and artists as different as Matisse or Rodin. And finishes, without a doubt, in an architect as Gaudí, epitome of hiper-ornamentation. The other line, dominant, enemy of ornamentation. It includes theorists such as Semper, but also all pseudoscientific writings about “decadence” that go from Max Nordau to the exhibition coordinated by the Nazi authorities about the “Entartete” Kunst. Its zenith is represented by leading figures such as Loos and Le Corbusier, each one in his own terms. Two currents which are not parallel, but constantly intertwine.

Specifically, the course will be organised in four parts that will focus on the works of four architects: Gaudí (hiper ornamentation), Loos (unornamentation), Le Corbusier (cleanliness or nettoyage) and Mies (a paradoxical return to ornamentation through materials). The written and built works of these four architects will be analysed according to the order set out in the title of the course: architecture (that is, analysis of works in particular), theory (meaning, analysis of models and resources whether written or visual), and critique (that is, acceptance of the works among contemporaries and later on). All read in the widest of contexts.
Technological Innovation in Architecture

ACADEMIC COORDINATION Adián Muros
PROFESSORS LIST Albert Albareda, Jorge Blasco, Jocelyne M. de Botton, Anna Casas, Enrique Corbat, Eva Crespo, Francesc de Paula Daumal, Maria del Pilar Giraldo, Josep Maria González, Núria Miralles, Carlos Muñoz, Jordi Pagés, Cristina Pardal, Oriol Paris, Joan Lluís Zamora
WEB https://mbarch.masters.upc.edu/lineas-master/innovacion-tecnologica-en-la-arquitectura/

The "Master of Technological Innovation in Architecture ITA" evolves from the experience of the University Master’s Degree in Architecture MUTA taught between 1997 and 2007. The new ITA master incorporates aspects related to the technological innovation present in current architecture, especially with sustainable construction, the industrialization of construction, the environmental conditioning systems of buildings aimed at almost zero energy consumption, and digital techniques of design and material production, positioning itself as the most innovative and advanced in a period of great social and technological changes.

The subjects that are taught deepen both design and architectural design aspects as well as aspects of technical design and construction calculations. Thus, specific aspects of theoretical-critical analysis, graphic representation, environmental and sensorial design, innovation in materials and new products for construction, prefabricated construction systems and industrialized construction, recycling and life cycle assessments, structural optimization, energy saving, etc...

The theoretical training is applied by individual and group work of each subject development. Digital tools and computer programs adapted to the most stringent current requirements and regulations are included.

Classroom training is complemented by the most advanced construction sector industries visits, also by visits on site to unique works of special relevance with the subjects. The training is also based on conferences and debates with prestigious professional specialists and study trips.

With all this it is intended that the student acquires a specialized training with a great critical capacity that allows him to become a reference specialist capable of integrating both in multidisciplinary architecture teams as in institutions and universities.

Subjects
- Architecture, Theory and Criticism (Technological Innovation in Architecture)
- Architecture, Environment and Technology (Technological Innovation in Architecture)

Architectural Renovation and Conservation

ACADEMIC COORDINATION Pere Joan Ravetllat
PROFESSORS LIST Céssima Cornado, Oriol Cusidó, Maria Montserrat Font, Belén Onecha, Jorge Portal, Javier Sant, Marc Seguí
WEB https://mbarch.masters.upc.edu/lineas-master/restauracion-y-rehabilitacion-arquitectonica/
INSTAGRAM @mbarch_rra/

Given the increasing need of intervention in existing buildings and the growing social sensibility towards the preservation of the values associated to historical urban centres and heritage buildings and ensembles, it seems advisable to set out a specific framework to deepen into these issues that builds upon the knowledge taught at the bachelor’s degree in order to allow for a more explained, rigorous, analytical and proactive development of architectural rehabilitation and restoration tasks.
Therefore, the subjects of this speciality approach from different perspectives those issues related with the historical construction, the resources available for the assessment and analysis of existing buildings, the techniques to be employed in such interventions according to the given security and habitability conditions, or the practical application of these techniques—always taking into account the particular circumstances that need to be observed in the intervention in heritage buildings.

Furthermore, the proposed program also wants to provide students with the necessary knowledge to meet the growing demand of adapting existing buildings according to the current requirements of energy, accessibility and habitability, and to address the specific casuistry of the changes in use, an increasing tendency in buildings of very different nature located in urban, industrial and rural areas. This program benefits from the large teaching experience developed in first cycle (bachelor) degrees and postgraduate degrees in the field of building rehabilitation and restoration, specially at the ETSAB, with the participation of professors established as teachers and researchers, authors of widely spread publications, projects and studies.

**Subjects**

- **Architecture, City and Project**  
  (Architectural Renovation and Conservation)
- **Architecture, Theory and Criticism**  
  (Architectural Renovation and Conservation)
- **Architecture, Environment and Technology**  
  (Architectural Renovation and Conservation)
- **Architectural Renovation and Conservation Intervention Techniques:**  
  Security Measures
- **Architectural Renovation and Conservation Intervention Techniques:**  
  Occupant Safety and Health Regulations
- **Renovation, Pathologies and Structural Reinforcement**
- **Architectural Renovation and Conservation Projects**
- **Renovation in Large Residential Complexes and Industrial Areas**
- **Heritage Historic Construction**

From the subject 'Architectural Renovation and Conservation Projects'
The non-crosswise teaching of Architecture and the twisted Vitruvian triad

Belen Onecha Perez
with Jose Luis Gonzalez Moreno-Navarro
Lecturer, Department of Architectural Technology, TA

In his 1813 2nd edition of the book Précis des leçons d'architecture données a l'École royale polytechnique, Jean Nicolas Louis Durand added a new paragraph that was maintained till 1840:

“This division of architecture in three independent parts, that can be, or even should be, studied separately, can lead the student of architecture to become fonder of one of the three, getting obsessed with their preference and disregarding the other two, rarely or never developing any of the others and, therefore, acknowledging just part of the knowledge needed. All of these reasons are more than enough to totally abandon such method.”

In previous paragraphs he had pointed out that these three parts were the layout, the construction and ornamentation, and he anticipated that the preferred one would be the third. It is well-known that his students at the Polytechnic School would be the future engineering professionals that would frequently design buildings in far-away places were architects were scarce. Durand lessons were the only ones providing them with a global perspective of all architectural variants and a method to solve the project of any architectural typology in any given circumstances. Durand works are unanimously considered of decisive significance to the architecture of the 19th and even 20th centuries.

However, what did not spread was his proposal of totally abandon such method. The tripartite division, a new version of Vitruvius original triad, had already been imposed in architectural circles in the mid-18th century and became the foundation for the influential School of Fine Arts, with a clear preference for ornamentation.

In 1862 Eugène Viollet-le-Duc ruled:

“What is a construction course for the Imperial School of Fine Arts in France? […] What is an architecture that does not take into account the structure, and what is a structure that is adopted not taking into account the shape? […] Projects drawn on paper, carefully outlined, quite often with noteworthy skill, do not specify the structure at all; all what is seen could be marble, stone, plastered masonry, wood or cardboard, no one knows and Mr. Teacher is not much more concern than his students.”

Nowadays, the academic experience of the authors of this text (lecturers of the Department of Architectural Technology of Barcelona Tech) with students from the country but also European exchange students from the Erasmus program, allows to verify similar situations in schools of Italy, France, the United Kingdom and Spain, in which our students, as Viollet’s, prioritise the aesthetic and formal aspects of architecture and disregard those related to its materiality.

Can we state there is some kind of connection between this situation and that declared by both 19th century authors?

The study of the architectural treatise allows to verify: 1st) that there existed a way of understanding global architecture theory without three differentiated parts, and 2nd) that from a particular point in history the process that gave room to the situation criticized by Durand took place.

In spite of his incoherence, Vitruvius contributed a global perspective, even though that who really achieved it in an extraordinarily complete way was Leon Battista Alberti in his De re Aedificatoria, published in 1485.

Since the end of the 15th century till the end of the 17th century all treatises, to a greater or lesser extent, looked for a global perspective, and none of them

1. This writing is a synthesis of an article published in the magazine VLC: Onecha, B.; Gonzalez, J.L.; Puntos, S. “The Teaching of Architecture as a Result of a Misunderstood Triad” VLC arquitectura 7, #2 (October 2020) 145-183.

2. Object of the PhD thesis of the authors of the article and this writing.
adopted an analytical position based in three parts. Vitruvius’ proposal of a triad was perpetuated, but only as objectives to accomplish. Sir Henry Wotton’s treatise: *The Elements of Architecture* (1624), where Vitruvius’ authority and Alberti’s argumentative efficacy are wisely combined, should be highlighted.

Without a doubt, doctor, naturalist and physiologist Claude Perrault was the one who, in his passing architectural episode entailing the writing of the treatise: *Abregé des dix livres d’architecture de Vitruve* (1674), transferred his inevitably analytical perspective to a theory like the architectural one, whose main objective should had always been laying down the arguments needed to reach the difficult synthesis of all architectural variables.

The authority that the name of Vitruvius provided to Perrault’s proposal lead the final transformation of this analytical perspective with three objectives to three autonomous parts that were dominant in France (as Durand stated), in Italy and Spain. Apparently, the United Kingdom did not fell under its spell, but neither under Wotton’s. Books as those of Francesco Milizia (1781), Jean Rondelet (1802-18), or Richard Nicholson (1795) and their successors were the ones to achieve the separation of construction from architecture.

The reading of current texts covering the theory of historical architecture is the reflection of the knowledge currently passed on. It is easy to observe how them all act following Durand’s prediction: they not only divide the theory of architecture in three parts but also just speak of the third, what in historical terms we would name ‘ornamentation’. Construction is totally missing. And, implicitly, for all of them, Perrault’s division in three autonomous parts emerged from the very same original treatise by Vitruvius.

From here, the thread goes directly towards professional practice and the corresponding university teaching where Durand’s 1813 suspicions can be verified.
The Contemporary Project wants to distill the contents of the Catalan and Barcelona experience of architecture, from objects (Modernisme, Gaudí, Jujol, Domènech, Miralles) to systems (Olympic, seafront), on all the stairs and scenarios: we do not believe in scale hierarchies.

The different periods have in common the attention to the place, the emphasis on the materiality, the revolution and subversion in the hierarchies of scale. The Master trains to think and develop the project from multiplicity. Each project creates its own path of development.

The Contemporary Project is taught entirely in ENGLISH and has an international vocation. He wants to collect the experience of the students who come from all over the world and establish a debate that will allow us to detect those aspects common to contemporary forms of life, while at the same time putting in value the multiple identities.

What do we offer? A training to tackle the project between scales and at any scale.

To break the common path of going from the largest scale to the smallest, and also break the neo-path in the opposite direction. That is, we offer projecting all the scales at the same time.

A vital understanding of materiality —we have the Modernist tradition behind—which does not appear in the end—as usual, as a finish—but as a vital fact from the beginning of the Project.

### Subjects

- Master’s Thesis (Contemporary Project)
- Urban Project. Ideas and Praxis
- Contemporary Architectural Issues
- All scales of the project
- Architecture, Theory and Criticism (Contemporary Project)
- Architecture, City and Project (Contemporary Project)
- Materiality and Project
- Reshaping the City by the Public Space
- New Representations. New Conceptions
- Architectural Project and Thought
- Architecture, environment and technology (Contemporary Project)

### COMMON SUBJECTS

**Architecture, Environment and Technology – AMET**

**Interdepartamental**

- **LECTURERS** Xavier Llobet, Elena Fernández, Miquel Martí Casanovas, Ramon Graus, José Nicasio Roca, Oriol Paris, Joan Moreno, Anna Pagés, Jorge Portal

The aim of this workshop is to understand the project as a tool of research. We’ll focus the attention on the transformation of cities, where a continuous fight between the invasive force of the globalization and the persistent resistance of multiple identities is supported. We consider the public space as the focal center of the community, which brings together social life and all the conflicts of the city from the symbolic, morphological and functional points of view.

Changes are part of the real dynamic of our cities, cultures and landscapes, and we are called to find opportunities, better than problems, to improve the real environment and make our cities much more liveable than they are now. We’ll talk about big cultures, big infrastructures and big cities, but not forgetting “the small is the new big”.

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**ACADEMIC COORDINATION** Eduard Bru and Xavier Llobet

**PROFESSORS LIST** Miguel Corominas, Carles Crossas, Marta Domènech, Eulalia Gómez, Celia Marín, Jordi Oliveras, Lluís Ortega, Oriol Pons, Alessandro Scarnato, Isabel Zaragoza

**WEB** [https://mbarch.masters.upc.edu/lineas-master/contemporary-project/](https://mbarch.masters.upc.edu/lineas-master/contemporary-project/)
Architecture, City and Project – ACP
Interdepartamental

Lecturers: Xavier Llobet, Elena Fernández, Miquel Martí Casanovas, Antonio Pizza, José Nicasio Roca, Oriol Paris, Joan Moreno, Anna Pagés, Jorge Portal

The aim of this workshop is to understand the project as a tool of research. We’ll focus the attention on the transformation of cities, where a continuous fight between the invasive force of globalization and the persistent resistance of multiple identities is supported. We consider the public space as the focal center of the community, which brings together social life and all the conflicts of the city from the symbolic, morphological and functional points of view.

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Architecture, Theory and Criticism – ATc
Interdepartamental

Lecturers: Antonio Isalgue, Eduard Bru, Carlos Ramiro Marmolejo, Maria del Pilar Giraldo, Cristina Gastón, Marc Seguí, Antoni Ramón Graells, Josep M. Montaner, Francesc Peremiquel, Joaquim Sabaté

We defend for middle and poor countries, as is used to be at the Mediterranean milieu, spaces structured by neutrals, a-temporal, elements, placed in highly significant spaces by the entourage and the passing time.

We are just coming from a professional practice very motivated by the context, not only in physical terms. We do pay attention to the specific of any program and place, included the passing time.

No sense, then, a pre-established style. But many criteria are present from the beginning. We propose a simultaneous attention—no priory’s admitted—to the heterogeneous data of the project: physical, emotional, etc. From the deal in between this heterogeneity the project should come.

Final Master’s Thesis – TFM

The registration of TFM includes 15 ECTS credits. At the time of the presentation must be overcome (rating equal to or greater than 5) all remaining studies credits.

If a student fails to meet this condition on the date provided for the defence of the academic year which has enrolled the PFC it will not be included in the final record and will not be evaluated. In this case a new enrollment will be necessary.

DMD Tongji (Dual Master Degree Program – Tongji University)

CAUP_Tongji University and ETSAB_UPC signed their agreement on carrying out the dual master degree program between the two schools in 2015. The aim of the double master degree is to create a platform for an integrated, international academic program in architecture studies.

Supported by Tongji-UPC DMD, MArch students at CAUP-Tongji will enjoy the opportunity to familiarize themselves first-hand with one of the most cultural dynamic regions of the world, and they will have the chance to participate academic projects designed to be interdisciplinary.

DMD is a two-year system program. Tongji Students stay in Shanghai for the 1st year and come to Barcelona for the 2nd year. ETSAB students study in Barcelona for the 1st year, and will study in Tongji for the 2nd year. After successful completion of the complete program at both universities, the students receive the degrees of both universities, “Master of Architecture” of CAUP_Tongji University and “Master’s degree in Advanced Studies in Architecture-Barcelona” of ETSAB_UPC.
The Interuniversity Master’s Degree in Design-Barcelona (UPC-UB) is a multidisciplinary master’s degree in which creativity, innovation and research are applied as tools of knowledge and proposition for the design of the future. It arises in an integral, broad and cross-disciplinary sense, characteristic of the design made in Barcelona, which has become an international benchmark in recent decades. In a propositional approach, it provides new perspectives on theoretical reflection, participatory networking strategies and the most innovative trends in new products. Tasks are carried out through design workshops, thematic projects, collaborative work, materials and technology research laboratories and a digital manufacturing laboratory.

The master’s degree lasts one academic year, is worth 60 ECTS credits and consists of a compulsory common stage of 15 ECTS credits that takes a cross-disciplinary approach, and a second elective stage of 30 ECTS credits that includes five specialisations taught by expert teaching staff from various benchmark schools, such as Barcelona School of Architecture (ETSAB), Vilanova i la Geltrú School of Engineering (EPSEVG), Terrassa School of Industrial, Aerospace and Audiovisual Engineering (ESEIAAT) by the Universitat Politècnica de Catalunya ∙ BarcelonaTech (UPC); and the Faculty of Fine Arts of the Universitat de Barcelona (UB). The specializations are:

- Contemporary Design (taught in English)
- Design, Innovation and Technology (taught in English)
- Industrial Design Engineering (taught in Spanish)
- Art Direction in Design (taught in Spanish)
- Design Research (a crosscutting specialisation that deals with the previous four)

All the specialisations end with a specific master’s thesis worth 15 ECTS credits, which can involve a project or research. In addition to these five pathways, there are also common optional subjects dealing with business, intellectual property and entrepreneurship topics.

Language Each specialisation, including the common subjects and the master’s thesis, is taught in English or Spanish. For the Design Research specialisation, since all its subjects are part of the other four specialisations both languages are required.

SPECIALIZATION LINES

Contemporary Design
Barcelona School of Architecture (ETSAB, UPC)

TEACHING LANGUAGE English

The subjects deal with theory and practice simultaneously. The specialisation is focused on new challenges in contemporary design and uses the creative process of design as a tool to solve new products and, at the same time, as a research tool. The subjects cover different scales that range from the personal object, furniture and domestic space to urban furniture, urban spaces and communication and transport systems. New technologies (3D printing, robotisation, new materials, etc.) and social movements (citizen participation, situationism, psychogeography, etc.) are taken as points of reference, establishing relationships between design, culture (1), new technologies and the environment. Architecture and City acts as a general reference framework.

Contemporary Design addresses issues such as Industrial design, art and emotional design / Furniture and indoor environments / Customisation of objects / Ephemeral architecture and temporary events / Microarchitecture / Urban space and furniture / Communication and information / Urban art and land art / Transport systems and public space / Design, collective participation and urban regeneration / Design, culture and exhibitions (1) / Neo-vernacular architecture and new construction systems.

Subjects
- Project Strategies (compulsory)
- Creativity, Invention and Emotion in Design
- Integral Design, Systems and Programs

Language Each specialisation, including the common subjects and the master’s thesis, is taught in English or Spanish. For the Design Research specialisation, since all its subjects are part of the other four specialisations both languages are required.
Materiality, Representation and Form Design (compulsory)
Design and Materiality
Representation and New Formats
Contemporary Design Research (5 optional ECTS credits)*
Sustainable Reality and Future. Environment and Product
Design Culture. Architecture and Exhibition

Design Innovation and Technology
Vilanova i la Geltrú School of Engineering (EPSEVG, UPC)

TEACHING LANGUAGE English

The specialisation is aimed at discovering and working on new challenges in the design discipline that are the result of the acceleration of technological, social and economic change. The subjects in the specialisation connect design and applied and social sciences to create models of products and services that can be adapted to the new demands of society and the environment. The subjects allow students to obtain the vision and the tools to apply a design-technology-society strategy to the development of innovation projects.

Subjects
Collective Design (compulsory)
Design and Society
Network Creativity and Technology
Knowledge Management (compulsory)
Data-Driven Design
Design Process in Complex Systems
Research in Design, Innovation and Technology*
Methods and Processes of Research in Design
Innovation and Technology
Innovation-Research in Design and Technology

Industrial Design Engineering
Terrassa School of Industrial, Aerospace and Audiovisual Engineering (ESEIAAT, UPC)

TEACHING LANGUAGE Spanish

The aim of this optional subject area is for students to acquire advanced engineering techniques in industrial design. This means an intensification of their knowledge of materials' selection criteria and transformation processes, as well as the practical implementation of these materials following creative criteria and trends. The subject area also focuses on perfecting form development techniques using CAD system applications in areas such as product engineering and automotive and reverse engineering and generative modelling. This generation of forms leads to the creation of prototypes, during which advanced techniques, such as programmable logic and the Arduino standard, are explained. Students also delve deeper into research and innovation topics, and analyse techniques and methodologies in industrial design research, which they apply to both the basic conceptual design and the development of the final product.

Subjects
Advanced Geometry and Prototyping (compulsory)
Advanced Geometry in Design (5 ECTS credits Prototyping)
Design and Materials (compulsory)
Study and Technical Analysis of Materials
Practical Application of Materials in the Design Process
Methodology and Research in Industrial Design Engineering (5 optional ECTS credits)*
Research, Development and Innovation in Product Design
Research Methods and Processes Applied to Industrial Product Design

Art Direction in Design
Faculty of Fine Arts (Universitat de Barcelona (UB))

TEACHING LANGUAGE Spanish

This specialisation focuses on the application and development of art direction in the field of design. The subjects cover design projects and graphic applications, graphic and typographic architecture, information design and the development of areas and methods of theoretical and critical research on aesthetics and design.

Subjects
Design and Art Direction. Projects Coordination (compulsory)
Art Direction in Design Projects
Graphic Applications
Design and Art Direction. Projects Development (compulsory)
Graphic Architecture and Typography
Information Design
Research in Design and Art Direction (5 optional ECTS credits)*
Theoretical and Critical Research on Design: Humanities and Social Sciences Areas and Methods
Aesthetics and Theory of Design

1. The subject Design Culture. Architecture and Exhibition is taught in collaboration with the Barcelona Design Museum.

* Subjects of the Design Research specialization
Design Research
ETSAB, EPSEVG, ESEIAAT (UPC), Faculty of Fine Arts (UB)

TEACHING LANGUAGE Spanish

This is a cross-disciplinary specialisation that is developed through the research subjects of the other four specialisations, which constitute the compulsory part of this specialisation (25+5 ECTS credits). The unifying element of the course is the subject of study and research chosen by students, so studying part of all the specialisations provides them with different views on the research subject. The specialisation is focused on the study of crossdisciplinary themes that are very common in the field of design and allows the kinds of topics that cannot be included in any of the other specialisations to be studied, even though research is part of all of them.

Common Optional Subjects
Additional optional subjects in all the specialisations:
- Design, Management and Business
- Fundamentals of Business for Designers
- Industrial and Intellectual Property
- Design, Studies
- Theory, History and Historiography of Design
- Social Sciences Applied to Design

COMMON COMPULSORY SUBJECTS
Compulsory subjects in all the specialisations:

Teaching methodology
Interaction between theoretical foundations and products, broadly speaking. Development from the written reflection. This subject will develop in a separated way in each one of the headquarter where the master is performance and in joint sessions. In the separated sessions, the student will receive presental sessions of exposition of the contents by the teacher where the theoretical bases of the subject will be introduced, concepts, method and results illustrating it with convenient examples for its understanding. In the practical work sessions, the teachers will guide the students in the reading and the argumentation of the different cases of study. Finally, in the joint sessions will put in common the different approached made by the students in each one of the headquarter where the same subject is taught.

Design, Project and Environment
Department of Project and Construction Engineering | EPC

LECTURES Maria Teresa Aguado, Jose M. Domenech, Sheila Gonzalez, Ignacio Martí, Jose María Monguet, Enric Trullols Farreny

TEACHING LANGUAGE English

Learning objectives of the subject
Provide the students tools to knowledge of the means of graphic and formal representation and its incidence both in the current trends of design and its applications. Recognize the genealogy of thinking that come together in the actual context developing some key issues. Identify the moments, products, writings and historical authors that have meant paradigmatic advances in the discipline and in the contemporary debates about the project, environment, related to the design. Foster the critical discussion about the evolution of the different design areas.

Teaching methodology
Interaction between the proceedings of design and the context in which is developed, in a wide sense. The subject is developed from the picture and the shape, as an own referent of the outcome. This subject will be developed separately in each one of the specialities of the master and in joint meetings. In the separate sessions, the student will receive on-site sessions of exposure of the contents by the teacher where will be introduced las theoretical bases of the matter, concepts, methods and outcomes illustrating them with convenient examples to ease their comprehension. In the sessions of practical work, the teachers will guide the students in the reading and discussion of the different study cases. Finally, in the joint sessions, the different approaches performed by the students in each one of the specialities where the same subject is imparted.
Design, Technology and Innovation

Department of Engineering Graphics and Design and Materials Science and Engineering | DEGD + CEM

LECTURERS: Eloi Coloma, Jose Maria Monguet, Xavier Romero, Enric Trullols, Oriol Ventura
TEACHING LANGUAGE: English

Learning objectives of the subject
From this subject, the student will be able to acquire a global perspective at international level of the state of the matter, of the current themes and the investigation in the different areas dealt with in the different themes.

Teaching methodology
This subject will be developed in a separated way in each one of the headquarters where the master is realized and in joint sessions. In separated sessions, the student will receive presentational session of exposition of the contents by the teacher where the theoretical bases of the subject will be introduced, concepts, methods, and results illustrated with examples to facilitate its understanding. In the sessions of practical work, the teachers will guide the students in the reading and argumentation of the different cases of study. Finally, in the joint sessions will be put in common the different approaches made by the student in each one of the headquarters where the same subject is taught.

TFM – Master’s Thesis

LECTURERS: Mónica Ardanuy, Francisco Bermúdez, Jasmina Casals, Josep Maria Fort, José Luis Lapaz, Joan Antoni López, Álvaro Luna, José Joaquín Marqués, José Maria Monguet, Oriol Moret, Enric Trullols, Heura Ventura, Jordi Voltas
TEACHING LANGUAGE: English

Once all the master’s credits have been obtained, this work consists on performing an original work developed individually and presented to a multidisciplinary university Tribunal. The process may include discussions in the form of a seminar, debates in tutorials, presentations and defence in groups.

The synthetic capacity is especially valued in relation to the specific and personal contribution made on the topic addressed. From this contribution the work will be able to have different formal developments. The Final Work of Master culminates the academic process of learning carried out by the students in the degree program allowing them to integrate the knowledge, information, skills and abilities acquired throughout these studies.

In general, the Final Master’s Work combines two aspects that students must develop and that will be related to the speciality line studied:

A. Development of an investigation that makes an original contribution to current knowledge and experience, through a theoretical reflection, of some topic related to the contents studied in the master’s degree. Research is used here as a design tool.

B. Design of a product, understood in the broadest sense (object, service, system, situation, environment, program, strategy, message, building, etc.) of experimental and innovative nature in which the findings of the investigation done on the subject in the previous point are applied. The Design is used here as a research tool.

Layming Chang de Leon, Floating architecture for a dynamic society. Water as a media to explore flexibility

Ursula Andrea Eyzaguirre Kouri, A Proposal for the Future Urban Lighting. Rethinking Night Shades

Layming Chang de Leon, Floating architecture for a dynamic society. Water as a media to explore flexibility
MBLandArch focuses on the academic approach of Landscape Architecture ranging from a projective exploration to contemporary topics of our environment. Merging both practice and theory, it considers inherent perspectives such as landscape ecology, humanistic disciplines and the construction of public space, among others.

The main aim is to make landscape architects question contemporary topics such as climate change in the Mediterranean Region, the parameterization of ecosystem values in landscape, the recognition of metropolitan emerging spaces, as well as participative processes.

The program is based on site knowledge and time specificity. Therefore, it enhances cartographic representation and landscape construction materiality, exploring its development and different strategies which nurture the dialogue between public administrations and the territory actors.

Landscape architecture embraces all kind of outdoor spaces. Barcelona’s urban model and its historical renowned public space design are spread worldwide. Our specific approach is defined by an understanding of a large territorial scale and the usage of ecological theoretical concepts and its representation.

In terms of territorial scale, landscape architecture deals with geography, land management, social sciences and all kind of urban decisions that, day by day, build our cities’ landscapes. Ecology, biology, agronomy, landscape engineering and the different environmental sciences are all taken into consideration throughout the design process. From global to local, from highly complex environmental solutions to the simplest traditional & logical approaches, they all should be applied in our landscape’s construction, conservation or restoration.

A transdisciplinary and multiscale approach, specific to Landscape architecture, has traditionally nurtured our discipline and determined Barcelona School of Architecture’s reputation through artistic, creative, and architectural skills.

Subjects

**Design**  Landscape Design Studio I, II & III, Final Landscape Design, Composition Elements, Composition I & II, Cartography, History & Theory Of Landscape I, II & III, Urbanism & Landscape, Expression Of Landscape, Landscape Design Analysis

**Technical**  Landscape Sciences, Engineering & Landscape, Landscape Engineering I, II & III, Construction & Landscape, Ecology & Landscape, Landscape Restoration, Hidrology, Workshops, Lectures and Professional Practice

Professors

Enric Batlle, Marina Cervera, Xavier Fábregas, Luis Maldonado, Pepa Morán, Anna Zahonero

Faculty

Andreu Arriola, Albert Bestard, Lidia Carrillo, Manel Colominas, Stefano Cortellaro, Daniel Gómez De Zamora, Jordi Izquierdo, Josep Mercadé, Carme Ribas, Maria Del Mar Pérez, Maria Rubert, Ferrán Sagarra, Ioanna Spanou, Victor Ténéz, Javi Zaldívar

Assistant Faculty

Víctor Adorno, Lara del Valle, Mario Suñer, Melanie Theodosopoulou and Livia Valentini

EMiLA

European Masters in Landscape Architecture

**PERIOD**  six-monthly 2nd (1st year) and 3rd (2nd year) of the MBLandArch

**TYPE OF EDUCATION**  International exchange

**DURATION**  2 semester

**WEB**  http://www.emila.eu/

EMiLA (European Master in Landscape Architecture) is a mutual exchange program between the Landscape Architecture Master’s of five European universities:

- Ecole Nationale Superieure du Paysage, Versailles-Marseille (ENSP)
- Fakultät für Landschaft, Leibniz Universität Hannover (LUH)
- Academie Van Bouwkunst, Amsterdam University of the Arts (AHK)
- ESALA, Edinburgh College of Art (ECA)
- ETSAB y ESAB, Barcelona, Universitat Politecnica de Catalunya (UPC)
EMiLA includes two semesters of exchange in two associated masters and two common modules: workshop ‘e-learning’ and ‘Summer-School’

The students taking the program study the first and last semester of the master in the origin school/university. The second and the third semester are studied in two of the associated schools. Teaching is realized in the destination original language excluding Amsterdam, where is realized in English. The common modules are studied in English.

Objective
The EMiLA aim is to offer to the students the possibility of familiarize with the European context (and market) and acquire international experience, as well as higher knowledge of the most important issues of Landscape Architecture in Europe and learn diverse projecting ways. Learn different politics in Europe and its influence in the landscape and how the different countries cooperate in the scope of interdisciplinary projects and/or transnational.

Program and method
Each single master has its scheme, teaching program and particularities, but all they start from the project or the landscape design as the main thrust of the courses. The specific curriculum of each institution, its obligatory studies and methods are detailed in its respective teaching guide’s. The students study the regular courses. The five schools each year choose jointly an European issue to take in the workshops and common modules.

In parallel to the regular course in the host university the students follow an individual design project in the EMiLA web where is provided the list and common work between the students of the program. The module e-learning EMiLA and the SummerSchool are compulsive and are added to the regular curriculum.

Once finished EMiLA program, students receive a participation certificate from the home institution together with the diploma.
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<th>PhD PROGRAMS</th>
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<td>417 PAU Architectural, Building Construction and Urbanism Technology</td>
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<td></td>
<td>422 TAEU Architecture and Urban Heritage</td>
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<td>428 FACUCE Architectural, Civil and Urban Heritage</td>
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Research teams, projects, and agreements.

Remark – Pedro Arce Nicolle (TAEU)

Remark – Carlos Marmolejo Quintero (TAEU)
PhD PROGRAMS

AEM
Architecture, Energy and Environment

**Objectives**

To promote the training of aspirants to the title of doctor in the subjects being researched by the members of the research team, while seeking the dissemination and confirmation of the methodological results adopted in the various projects. It is also intended that the contents of the program will be articulated with the research lines around the relations between architectural energy and form, in addition to those referring to the environment and the sustainability of constructions.

**Justification of the need for the program.** In the world today, research in the course’s subject areas (energy, matter and environment...) is needed to improve the outlook of architecture in society.

Architects’ knowledge of these subject areas has significant repercussions on society as whole, whether directly or indirectly.

Research in the field has a substantial bearing on the implementation of society’s environmental agenda.
Doctoral Theses, courses 2015/16-2019/20

2019

ELENA GARCÍA NEVADO
Termografía del cañón urbano. Uso de la perspectiva para una evaluación térmica global de la calle
http://hdl.handle.net/10803/666702
Reading date: 10/04/2019
Thesis language: Spanish
Thesis director: Helena Coch Roura

GEORGINA RENDÓN POUIOL
Evaluación de modelos de demanda en la edificación que minimicen la generación de emisiones de CO₂ en el aprovechamiento de la oferta de sistemas de Alta Eficiencia Energética
http://hdl.handle.net/10803/461532
Reading date: 23/01/2018
Thesis language: Spanish
Thesis director: Alberto Cuchi Burgos

JEFERSON ELOY TORRES QUEZADA
Comportamiento térmico de la cubierta en un clima cálido húmedo. Repercusión energética en el edificio
http://hdl.handle.net/10803/664053
Reading date: 07/11/2018
Thesis language: Spanish
Thesis director: Helena Coch Roura, Antonio Isagüé Buxeda

2018

VÍCTOR ALBERTO ARVIZU PIÑA
Las declaraciones ambientales de producto como instrumento de mejora ambiental en el sector de la construcción en México. El sector de la vivienda como enfoque inicial
http://hdl.handle.net/10803/525837
Reading date: 24/04/2018
Thesis language: Spanish
Thesis director: Alberto Cuchi Burgos

VIOLETA ESCOBAR RUIZ
La cubierta ventilada metálica en el clima cálido húmedo
http://hdl.handle.net/10803/462099
Reading date: 08/02/2018
Thesis language: Spanish
Thesis director: Helena Coch Roura, Anna Pagès Ramon

MARcos ALyNIO, LEIte FRANcDOLosO
La inserción de la eficiencia energética en los edificios universitarios brasileños: Las políticas y los procesos de toma de decisiones
http://hdl.handle.net/10803/461416
Reading date: 26/01/2018
Thesis language: Spanish
Thesis director: Alberto Cuchi Burgos, Eduardo Graja Da Cunha

2016

LEONIDAS ALBANO DA SILVA JUNIOR
Ambiente y crítica. Invariantes que trascienden del clima y del lugar
http://hdl.handle.net/10803/392679
Reading date: 19/01/2016
Thesis language: Spanish
Thesis director: Helena Coch Roura, Marta Adriana Bustos Romero

MARÍA CRISTINA CABELLO MATUD
Repercusión arquitectónica del volumen de las instalaciones en los edificios de oficinas. Análisis de las instalaciones de aire acondicionado
http://hdl.handle.net/10803/396218
Reading date: 30/06/2016
Thesis language: Spanish
Thesis director: Helena Coch Roura

ATTENYA CAMPOS DE ARMAS
Fuera de juego. Variables cualitativas de la luz en la Arquitectura
http://hdl.handle.net/10803/383521
Reading date: 07/02/2018
Thesis language: Spanish
Thesis director: Helena Coch Roura, Antonio Isagüé Buxeda

ALESSANDRA CURRELI
El acceso solar a la escala del tejido urbano. El enfoque morfológico y el método de análisis comparativo aplicados al caso de Barcelona
http://hdl.handle.net/10803/392707
Reading date: 25/01/2016
Thesis language: Spanish
Thesis director: Helena Coch Roura

CAMILA GREGÓRIO ATEM
Fachadas ventiladas: hacia un diseño eficiente en Brasil
Reading date: 10/11/2016
Thesis language: Spanish
Thesis director: Helena Coch Roura, Carolina Aparicio Fernández

AGNESE SALVATI
La ciudad compatta en clima Mediterraneo isola di calore morfologia e sostenibilità
http://hdl.handle.net/10803/394047
Reading date: 05/12/2016
Thesis language: Spanish
Thesis director: Jaime Roset Calzada, Francisco Navés Viñas

2015

CARLOS ALONSO MONTOLÍO
El pas i el canvi. La percepció ambiental durant la circulació a l’Arquitectura
http://hdl.handle.net/10803/369305
Reading date: 29/05/2015
Thesis language: Catalan
Thesis director: Helena Coch Roura

GABRIELLA DE ANGELIS
Arquitectura y desastres naturales: medidas para mitigar el riesgo sísmico y de inundación
http://hdl.handle.net/10803/334406
Reading date: 20/11/2015
Thesis language: Spanish
Thesis director: Jaime Avellaneda Díaz-Grande, Valter Fabietti, Massimo Perriccioli

ANDRÉS LOZANO REYES
Pedagogía de la energía en la proyección arquitectónica y el urbanismo
http://hdl.handle.net/10803/299801
Reading date: 08/05/2015
Thesis language: Spanish
Thesis director: Helena Coch Roura

JUDIT LÓPEZ BESORA
La llum mediterrània i els espais d’accés arquitectònics: i urbanístics: la pedagogia de la arquitectura y el urbanismo
http://hdl.handle.net/10803/334406
Reading date: 20/11/2015
Thesis language: Catalan
Thesis director: Helena Coch Roura, Isabel Crespo Cabillo

FRANCESC XAVIER SOLSONA PAIRÓ
La cara oculta de Barcelona. L’ambient a les galeries dels països de l’Exemple Cerda
http://hdl.handle.net/10803/317956
Reading date: 29/04/2015
Thesis language: Catalan
Thesis director: Helena Coch Roura
**GVUA**

**Urban and Architectural Management and Valuation**

**Objectives**

The overall objective of the program lies in promoting research in the fields of planning, the management and evaluation of architecture, the city and the wider territory. Territorial, urban and property related issues are approached from a transdisciplinary technical, as well as judicial, economic, social and environmental perspective. The learning of instrumental techniques is complemented with a critical reflection of strategies of urban intervention, together with the analysis of a number of national and international experiences.

One of the basic objectives of the Doctoral Program is that the students reach a full understanding of and internalise the knowledge fields linked to planning, urban land management and evaluation, in order that they are able to apply the techniques and methods belonging to these fields.

A secondary objective is that of incorporating to the traditional disciplines such as architecture, geography and economics, new capacities and skills necessary and shared by different fields of knowledge. The planning and management of the city, as well as that of the wider territory in general, and the economic, social and environmental evaluation of the urban transformations are an example of these new emergent disciplines, which require new formative challenges that bring value and capacity of professional projection in fields treated insufficiently at the undergraduate level.

**Specific objectives.** One of the specific objectives of the Doctoral Program is promote research and deepen the understanding of the five priority research lines:

- Spatial planning.
- Urban management.
- Urban and real estate valuations.
- Urban and regional analysis, drawing upon new Information and Communication Technologies (GIS, remote sensing and Virtual Reality).
- Urban ecology, environmental management and evaluation of the city and wider territory.
2019

**YELITZA GIANELLA NARANJO RAMOS**
El sistema de transporte público masivo “Metrovía” en la movilidad y el espacio público de la ciudad de Guayaquil
http://hdl.handle.net/10803/667133
Reading date: 11/06/2019
Thesis language: Spanish
Thesis director: Jose Nicasio Roca Cladera

**FRANCISCO VALLS DALMAU**
Digital Traces and Urban Research: Barcelona Through Social Media Data
http://hdl.handle.net/10803/667168
Reading date: 14/06/2019
Thesis language: English
Thesis director: Jose Nicasio Roca Cladera

**MOHSEN SHOJAEI FAR**
Dealing with geopolitical brownfield sites: Towards an adaptive guideline to foster their regeneration
http://hdl.handle.net/10803/667684
Reading date: 01/10/2019
Thesis language: English
Thesis director: Jose Nicasio Roca Cladera

**MOHAIR MAHFIZ A SUMMAN**
The impact of open spaces in the social life; the case of Jeddah, Saudi Arabia
http://hdl.handle.net/10803/668278
Reading date: 04/12/2019
Thesis language: English
Thesis director: Carlos Ramiro Marmolejo Duarte, Michael Forbes Davie

2018

**HAYTHAM HUSSAIN ALHUBASHI**
Housing sector in Saudi Arabia: preferences and aspirations of Saudi citizens in the main regions
http://hdl.handle.net/10803/620678
Reading date: 12/07/2018
Thesis language: English
Thesis director: Jose Nicasio Roca Cladera

2017

**LUÍS FILOPE DO ESPÍRITO SANTO CORREIA MARQUES**
Augmented Valuation of Cultural Heritage through Digital Representation based upon Geographic Information Technologies. The case study of Lisbon Aqueduct System within an Augmented Reality environment
http://hdl.handle.net/10803/641879
Reading date: 04/12/2017
Thesis language: Spanish
Thesis director: M. Pilar García Almirall

2016

**MOIRA TORNÉS FERNÁNDEZ**
The impact of the pollicentricism on the consumption of fuel and the mobility labor. A study compared for the 7 principal areas metropolitanas españolas
http://hdl.handle.net/10803/458446
Reading date: 25/07/2017
Thesis language: Spanish
Thesis director: Carlos Ramiro Marmolejo Duarte

**JUAN EDUARDO CHICA MEJÍA**
Externalidades de la economía del conocimiento en el crecimiento urbano. Un análisis para las áreas metropolitanas de Barcelona y Helsinki
http://hdl.handle.net/10803/386562
Reading date: 10/02/2016
Thesis language: Spanish
Thesis director: Carlos Ramiro Marmolejo Duarte

**NICOLÁS COLANINNO**
Semi-automatic land cover classification and urban modelling based on morphological features. Remote Sensing, Geographical Information Systems, and Urban Morphology: Defining Models of Land Occupation along the Mediterranean Side of Spain
http://hdl.handle.net/10803/396219
Reading date: 22/06/2016
Thesis language: English
Thesis director: Jose Nicasio Roca Cladera
JOSEP MARIA ESCOFET I FIGUERAS
Obtenió d’un indicator microterritorial de renda familiar disponible a partir de dades macroterritorials. Contrastació empírica a nivell de secció censal: el cas de Terrassa
http://hdl.handle.net/2117/105137
Reading date: 11/11/2016
Thesis language: Catalan
Thesis director: Jose Nicasio Roca Cladera

CARLOS ADRIÁN GONZÁLEZ TAMEZ
La estructura del mercado residencial en Barcelona: un análisis de una metodología de identificación de los submercados a partir de la movilidad residencial
http://hdl.handle.net/10803/384603
Reading date: 26/01/2016
Thesis language: Spanish
Thesis director: Carlos Ramiro Marmolejo Duarte

JESSICA FABIOLA MAIDANA ZEBALLOS
Evaluación de las externalidades del comercio informal sobre los valores inmobiliarios. El caso de la ladera oeste, La Paz, Bolivia
http://hdl.handle.net/10803/384717
Reading date: 22/01/2016
Thesis language: Spanish
Thesis director: Carlos Ramiro Marmolejo Duarte

NUNO EDUARDO NORTE PINTO
Multi-scale integrated cellular modelling for the study of urban change phenomena
Reading date: 12/09/2016
Thesis language: English
Thesis director: Jose Nicasio Roca Cladera, António Jose Pais Antúnes

ISACÓ PÉREZ SOSA
Maspalomas: Una mirada a las políticas de actuación turística en destinos costeros maduros
http://hdl.handle.net/10803/387925
Reading date: 05/02/2016
Thesis language: Spanish
Thesis director: Jose Nicasio Roca Cladera, Malcolm Campbell Burns

NANCY HELENA RUIZ ESTUPIÑÁN
Estudio de la estructura urbana e identificación y análisis del impacto de la localización de la actividad económica sobre las dinámicas territoriales. El caso de Bogotá, Colombia
http://hdl.handle.net/10803/385367
Reading date: 29/01/2016
Thesis language: Spanish
Thesis director: Jose Nicasio Roca Cladera, Carlos Ramiro Marmolejo Duarte

SILVIA SPAIRANI BERRIO
La percepción de la calidad de los materiales de construcción. Aplicación en pavimentos y revestimientos interiores en el uso residencial
http://hdl.handle.net/10803/398244
Reading date: 02/02/2016
Thesis language: Spanish
Thesis director: Jose Nicasio Roca Cladera

MÓNICA MARCELA SUÁREZ PRADILLA
Efectos de la construcción de la autovía orbital B-40 en la estructura urbana policéntrica de la Región Metropolitana de Barcelona (RMB)
Reading date: 13/09/2016
Thesis language: Spanish
Thesis director: Jose Nicasio Roca Cladera

2015

JUAN MANUEL CORSO SARMIENTO
Gestión y explotación de la información TLS de 3D a 2D y 2.5D. Análisis, selección y síntesis a partir de la tecnología escáner láser terrestre
Reading date: 10/10/2015
Thesis language: Spanish
Thesis director: Jose Nicasio Roca Cladera, Felipe Buil Pozuelo

AITZIBER EGUSQUIZA ORTEGA
Multiscale information management for historic districts’ energy retrofitting
http://hdl.handle.net/10803/334399
Reading date: 11/12/2015
Thesis language: English
Thesis director: Jose Nicasio Roca Cladera, José Luis Ikzara

CLAUDIA VILLAÇA DINIZ
El patrimonio cultural como marco estratégico de una revitalización urbana: Estudio de caso del entorno de la Estação Central de Belo Horizonte, Brasil
http://hdl.handle.net/10803/286830
Reading date: 02/02/2015
Thesis language: Spanish
Thesis director: Carlos Ramiro Marmolejo Duarte

PILAR PARCIO GARCÍA
Els sòls agrícoles periurbans i el tractament al planejament
Reading date: 19/01/2016
Thesis language: Catalan
Thesis director: Francesc Xavier Carceller Roqué, Jose Nicasio Roca Cladera
Since its origins, our department has a consolidated tradition of research projects on technological transfer and basic research in its different specialties and that, historically, included construction, conditioning and services, and legal architecture and management; as well as the most recently incorporated disciplines such as architectural rehabilitation, structures and maths. In this section of the handbook we will focus on discussing the most recent topics and challenges that, in my opinion, have to be dealt with in the near future.

In this last six-year term, a dozen projects on basic research obtaining funding in competitive calls have been leaded from this department of Barcelona School of Architecture. Those projects registered within the framework of national non oriented research calls managed by the National Research Agency have to be specially highlighted, even though calls from autonomous regions and private foundations also sponsored our research work.

In line with the knowledge taught and developed by the Department, the topics had to do with building technology, most specially with building materials to the service of contemporary architectural challenges, as the conservation of the built heritage and the improvement of energy efficiency. In fact, energy efficiency has been one of the common threads of very diverse projects. As an example, the relationship between the territorial and urban matrix and architectural energy efficiency has been studied as well as the impact of energy efficiency in the residential market, especially in the training of urban values. All of them aspects that change people’s quality of life, especially of those socioeconomic groups less fortunate whose housing has to be identified and characterize as a starting point to the design of urban regeneration and residential rehabilitation policies. The use of new analysis technologies has been a constant in our department. Thus, we have profusely used programs for the analysis of energy efficiency, for climate simulation, building systems, geographic information systems (GIS), remote sensing from aerial images and satellite, and augmented reality technologies or advanced techniques of analysis that allowed exploring the “big data”. Examples of this are projects aimed at improving urban accessibility and the identification of heat island within the framework of the design of urban mitigation and resilience strategies before the pounding resulting from climate change.

The research challenges that the future brings us are even higher. On one side, we need to clearly reinforce the link between research and teaching programs. This link clearly exists at master’s and doctorate level, but it is also necessary to reach the undergraduate level. We cannot allow this new knowledge to reach just the specialists, therefore it has to be adapted to the undergraduate training level, at the same time that we awaken the interest of our future architects in the solution of emergent problems in our discipline. Likewise, it is absolutely necessary to break the straitjacket of the teaching management structures and move forward a wider collaboration between the different specializations in architectural technology and those of other departments. We also need to acknowledge that in the design, materialization and management of our built environment there exist other disciplines whose methodologies and worries could imply a significant contribution to problems also common to architecture. Only through a multidisciplinary and cross-wiser approximation within the School would we be able to compete in a researching scenario more and more characterized by significantly scaled groups, especially with a clear vocation combining efforts in supplementary disciplines; ultimately capable of placing research on the verge of knowledge.
Objectives

In architecture, the central axis of development is the design; the architectural project associates building and use, starting from the poetical, ethical and cognitive dimensions of the design process. As said Vitruvius some 2000 years ago, this process implies a relation between natural and theoretical sciences (on one side) and social sciences (on the other side).

This Ph. D. Program, with its four research lines, focuses on some of these adjacent fields of architectural practice; but in the end, although each research line may approach a different field of knowledge (science), all the theses shall focus on the architectural project as a design intervention able to connect geography and history, climate and society, nature and culture.

Each research line has its own methodology, as you can see in the descriptions that follow. However, they all obey to the same necessity of research: design - the scientific, esthetic or ethical nature of the architectural project, design learning, and the importance of architectural design in contemporary cultural life.

Now, more than ever, due to the little presence of architects in the European research world, this Ph. D. program is an essential necessity.
2020

MARIA DOLORES BATALLER ALBEROLA
Prácticas documentales: Proyecto y contingencia
Reading date: 28/07/2020
Thesis director: Xavier Monteyts Roig, Pere Fuertes Pérez

JOAN CASALS PAÑELLA
Poesía en la arquitectura catalana contemporánea: arquitectura como paisaje, paisaje como arquitectura. De La Ricarda y la Casa Ugale, el Parc Cementiri Nou d’Igualada y el Parc de Pedro Tosca
http://hdl.handle.net/10803/668702
Reading date: 29/03/2020
Thesis director: Alfredo Linares Soler

PABLO ROS FERNÁNDEZ
Tatuaje tecnológico: Cuero, espacio doméstico y paisaje interactivos
http://hdl.handle.net/10803/664622
Reading date: 13/12/2018
Thesis language: Spanish
Thesis director: Cristina Gastón Guirao

JUAN FERNANDO SIGNES OROVAY
Les Travesseres de Barcelona: Necesitat de la Travessera Nord
http://hdl.handle.net/10803/669326
Reading date: 17/07/2020
Thesis language: Catalan
Thesis director: Xavier Llobet Ribeiro

ANTONI VIDAL JORDI
Atlas del Port de Mà
http://hdl.handle.net/10803/668837
Reading date: 24/07/2020
Thesis language: Catalan
Thesis director: Magda Maria Serrano

PABLO VILLALONGA MUNAR
Design behaviors: Programming the material world for Responsive Architecture
http://hdl.handle.net/10803/669509
Reading date: 22/07/2020
Thesis language: Spanish
Thesis director: Cristina Jover Fontanals

2019

ANA ISABEL SONTOLARIA CASTELLANOS
Caso Relato Colección: La construcción del espacio a través de los objetos
http://hdl.handle.net/10803/668827
Reading date: 10/07/2020
Thesis language: English
Thesis director: Eduard Bru Bistuer, Manuel Gausa Navarro

JOSUÉ NATHAN MARTÍNEZ GÓMEZ
Integración contemporánea con edificios antiguos: La intervención como síntesis histórica. Castelvecchio, MNAR, Kolumba
http://hdl.handle.net/10803/668850
Reading date: 17/02/2020
Thesis language: Spanish
Thesis director: Magdalena Saura Carulla

2018

FERNANDA MONSERRATH AGUIRRE BERMEJO
http://hdl.handle.net/10803/586164
Reading date: 24/05/2018
Thesis language: Spanish
Thesis director: Luis Ángel Domínguez Moreno

MONICA TÁRREGA KLEIN
Arquitectura semblada. Atlas de encuentros entre vegetación y arquitectura
http://hdl.handle.net/2117/117465
Reading date: 09/03/2018
Thesis language: Spanish
Thesis director: Cristina Jover Fontanals

ALEXANDRE BAHIA VANDERLEI
Sergio Bernardes: el desafío de la técnica
http://hdl.handle.net/10803/458359
Reading date: 21/09/2017
Thesis language: Spanish
Thesis director: Jaime Ferrer Fores, Beatriz Santos De Oliveira

MARTA DOMÉNECH RODRÍGUEZ
http://hdl.handle.net/10803/461380
Reading date: 15/09/2017
Thesis language: Spanish
Thesis director: Alfredo Linares Soler

DAVID OBÓN Y SAN JOSÉ
La arquitectura de la complejidad. Fundamentos para el método transdisciplinar
http://hdl.handle.net/10803/461528
Reading date: 17/10/2017
Thesis director: Alfredo Linares Soler, Enric Llorach Herrero

ROBERTA PAULA RECH
Habitar un monumento. La ciudad de Antonio Prado como síntesis de la arquitectura de una región
http://hdl.handle.net/10803/404374
Reading date: 07/06/2017
Thesis language: Spanish
Thesis director: Magdalena Saura Carulla

DAVID STEEGMANN MANGRANÉ
Ciudad casa comida. Una aproximación políédrica a los límites entre lo público y lo privado
JULIANA ARBOLEDA KOGSON
Patró bonito: un barrió sin proyecto
http://hdl.handle.net/10803/386478
Reading date: 26/01/2016
Thesis language: Spanish
Thesis director: Xavier Montes Roig

IVAN BENJAMIN ARELLANO FLORES
Casa O’Gorman. Habitando la cueva
http://hdl.handle.net/10803/386318
Reading date: 09/02/2016
Thesis language: Spanish
Thesis director: Xavier Montes Roig, Magda María Serrano

JAUME ASENSI CARLES
Espais comuns als edificis col·lectius d’habitatge social
http://hdl.handle.net/10803/383029
Reading date: 15/01/2016
Thesis language: Catalan
Thesis director: Alfredo Linares Soler

JOSÉ ALEJANDRO BECERRA IBÁÑEZ
Vivienda y ciudad, un único proyecto. La unidad vecinal Exequiel González Cortés, 1960-1964
http://hdl.handle.net/10803/383033
Reading date: 18/01/2016
Thesis language: Spanish
Thesis director: Cristina Gáston Guirao

JAIME BLANCO GRANADO
La obra de Xosé Bar Bó: objetividad y dimensión colectiva
http://hdl.handle.net/10803/352217
Reading date: 25/01/2016
Thesis language: Spanish
Thesis director: Antonio Armesto Aira

MARÍA TERESA BRAVO MARTÍNEZ
Lógicas paramétricas en la arquitectura del siglo XX
http://hdl.handle.net/10803/38394
Reading date: 08/02/2016
Thesis language: Spanish
Thesis director: Alfredo Linares Soler, Amadeo Monreal Pujadas

EDUARD CAILLIS FREIXAS
Arquitectura de los pantanos en España
http://hdl.handle.net/10803/383061
Reading date: 29/01/2016
Thesis language: Spanish
Thesis director: Xavier Montes Roig

MARÍA ANTONIA CAMPOS ARÉVALO
La voluntad moderna en la vivienda unifamiliar. Caracas 1945-1965
http://hdl.handle.net/10803/383064
Reading date: 27/01/2016
Thesis language: Spanish
Thesis director: Antonio Armesto Aira, Carola Barrios Nogueira

IVÁN DANIEL DE LA FUENTE MARTÍNEZ
Jern Utzon. La casa y el horizonte
http://hdl.handle.net/10803/383758
Reading date: 14/01/2016
Thesis language: Spanish
Thesis director: Antonio Armesto Aira

ROSSANA MARÍA DELPINO SAPENA
De lo incommensurable a lo mensurable: proceso dialéctico desde el imaginario al proyecto del edificio Richards Medical Research Laboratories 1957-1964
http://hdl.handle.net/10803/398914
Reading date: 13/09/2016
Thesis language: Spanish
Thesis director: Francisco Javier Biurrun Salanueva

SAMUEL JOSEPH DRAGO
Vom Bau der Kirche: Formulazioni teoriche e strategie comppositive di Rudolf Schwarz
http://hdl.handle.net/10803/383762
Reading date: 27/01/2016
Thesis language: Italian
Thesis director: Carlos Martí Aris, Maria Magdalena María Serrano

MARÍA DEL CARMEN ESCRIBUÉN VITALES
Colindancias. Estudio de las relaciones de forma entre edificios contiguos
http://hdl.handle.net/10803/383645
Reading date: 09/02/2016
Thesis language: Spanish
Thesis director: Cristina Gáston Guirao

MARCELO DAMIÁN FAIDEN
Los bajos de los edificios altos
http://hdl.handle.net/10803/384010
Reading date: 28/01/2016
Thesis language: Spanish
Thesis director: Juan Herreros Guerra, Xavier Montes Roig

Ricardo Daniel Flores
Casa la Ricarda de Antonio Bonet Castellana. Un territorio formalizado
http://hdl.handle.net/10803/386576
Reading date: 20/01/2016
Thesis language: Spanish
Thesis director: Antonio Armesto Aira

Arturo Freidiani Sarfati
Códigos desplazables: hacia una estética evolutiva de la arquitectura
http://hdl.handle.net/10803/384330
Reading date: 29/02/2016
Thesis language: Spanish
Thesis director: Antonio Armesto Aira

Eunice del Carmen García García
Enrique del Moral: el debate mexicano entre tradición y modernidad: 1946-1963
http://hdl.handle.net/10803/397713
Reading date: 15/01/2016
Thesis language: Spanish
Thesis director: Teresa Rosera Llobera, Cristina Gáston Guirao

Antonio Gironés Sáderra
Arquitectures espontànies, reflexions sobre constants en arquitectura: La península del Cap de Creus, una aproximación al territorio.
http://hdl.handle.net/10803/389704
Reading date: 25/01/2016
Thesis language: Spanish
Thesis director: Pere Riera Pañellas, Alfredo Linares Soler

Carola Barrios Nogueira
Colindancias. Estudio de las relaciones de forma entre edificios contiguos
http://hdl.handle.net/10803/386571
Reading date: 09/02/2016
Thesis language: Spanish
Thesis director: Alfredo Linares Soler

Ana María Moya Pellitero
Abengózar, Magdalena Saura Carulla
Thesis director: Félix Solaguren-Beascoa
Thesis language: Catalan
Reading date: 09/05/2016
http://hdl.handle.net/10803/387815

SHLOMI ALMAGOR
Los espacios del sentir. El Kiasma como modelo de percepción espacial
http://hdl.handle.net/10803/381269
Reading date: 29/01/2016
Thesis language: Spanish
Thesis director: Jose Antonio Ramos Abengózar, Magdalena Saura Carulla

Alba Arboix Alió
Església i ciutat. El paper dels temples parroquials en la construcció de Barcelona
http://hdl.handle.net/10803/387815
Reading date: 09/05/2016
Thesis language: Catalan
Thesis director: Félix Solaguren-Beascoa de Corral, Magda María Serrano

ANTONIO GIRONÉS SÁDERRA
Arquitectures espontànies, reflexions sobre constants en arquitectura: La península del Cap de Creus, una topografia en el temps
http://hdl.handle.net/10803/380549
Reading date: 22/01/2016
Thesis language: Catalan
Thesis director: Pere Riera Pañellas, Felix Solaguren-Beascoa de Corral

Sebastian Francis Harris
Place, sketch and architecture. An in-situ approach to contemporary design
http://hdl.handle.net/10803/396635
Reading date: 04/07/2016
Thesis language: English
Thesis director: Alfredo Linares Soler

ALBERTO ABALANET GIMÉNEZ
La casa a quatre vents a la Bonanova (1945-1970). Una arquitectura residencial d’habitatge urbà en la forma de la ciutat de Barcelona (Sarrià-Sant Gervasi)
http://hdl.handle.net/10803/386311
Reading date: 01/02/2016
Thesis language: Catalan
Thesis director: Xavier Montes Roig

Maria Teresa Aguado Roa

Maria Teresa Aguado Roa

Maria Teresa Aguado Roa

Maria Teresa Aguado Roa

Maria Teresa Aguado Roa

Maria Teresa Aguado Roa

Maria Teresa Aguado Roa
Barcelona en el punto de mira. Lecture...
Objectives

The main goal of the Doctoral Program is to offer the possibility of formation within the field of urbanistic research. For this reason, the program proposes rigorous analysis and academic reflection on themes, central to the history of urban planning and to current urbanism, to the forms of analysis and intervention in both regional and urban planning as well as in large scale architectural projects.

The program foremost aim is to form doctoral candidates, yet at the same time, its aim is to foster debate and the spread of knowledge of research activity within the Departments different areas of specialization. One of the main program objectives is to foment exhaustive study within the four main thematic areas which can be summarized in the following manner:

- Analysis and Urban Planning: Comprehension of urban phenomena engendered by the study of urban form. Research and practise of Town Planning at varying scales and degrees of compromise by the architect in the city.
- Analysis and Regional Planning: Study of the forms and processes of regional transformation, of their organisation, logic and root causes. Reflection on models, methods and instruments of Regional Planning.
- Urban History: Deepening of the knowledge of historic experiences and interpretation of key projects or theories in the evolution of Urbanism.
- Landscape architecture and environmental impact: Analysis of the form and ordering of landscape and study of the impact of the large territorial interventions.

Eulàlia Gómez-Escoda, Cartography of an urban landscape. 3 scenes: Streets, sidewalks, stores. In: Comerç, ciutat, paisatges arran de terra. Barcelona: Polytechnic University of Catalonia, 2015
ANDREA PAULINA ORDÓÑEZ LEÓN
Habitar el casco antiguo: El uso residencial como modo de conservación contemporáneo
http://hdl.handle.net/10803/664199
Reading date: 03/12/2018
Thesis language: Spanish
Thesis director: Francesc Peremiquel Lluch

EDUARDO RODRÍGUEZ VILLAESCUSA
Tres ciudades alineadas. Cajamarca, La Paz y Asunción, tres desafíos de cultura primigenia para abordar la regeneración de sus centros
http://hdl.handle.net/10803/462175
Reading date: 23/02/2018
Thesis language: Spanish
Thesis director: Carlos Juan Llop Torné

FRANCISCO DE ASSÍS ROSA
El planeamiento como sistema: el caso de Curitiba, Brasil: Principios, instrumentos y evolución del sistema de planeamiento urbanístico y ambiental de Curitiba (1965-2004)
http://hdl.handle.net/10803/664087
Reading date: 26/11/2018
Thesis language: Spanish
Thesis director: Joaquín Sabaté Bel

JUAN MANUEL ZAGUÍRRE FERNÁNDEZ
El bosque habitable. La experiencia de construir ciudad paisaje en Finlandia
http://hdl.handle.net/10803/664171
Reading date: 27/02/2018
Thesis language: Spanish
Thesis director: Joaquín Sabaté Bel

MADALEN GONZÁLEZ BEREZIAURTUA
La relevancia de las centralidades urbanas en la construcción de la Gipuzkoa moderna
http://hdl.handle.net/10803/656074
Reading date: 27/06/2017
Thesis language: Spanish
Thesis director: Ángel Francisco Martín Ramos

MARTA SOMOZA MEDINA
Tras el territorio circular: Pueblos cotidianos de la periferia gallega
http://hdl.handle.net/10803/458439
Reading date: 20/07/2017
Thesis language: Spanish
Thesis director: Ricardo Pier Niño
2016

ARmando joaquin arteaga rosero  
http://hdl.handle.net/10803/394060  
Reading date: 15/06/2016  
Thesis language: Spanish  
Thesis director: Zaida Muñiz Martínez, Luis Fernando González Escobar

Arturo calderón esteban  
Territorios simultáneos. Formas de territorialización de la sabana de Bogotá  
http://hdl.handle.net/10803/397719  
Reading date: 28/10/2016  
Thesis language: Spanish  
Thesis director: Carlos Juan Llop Torné

Romina martina canna skinner  
Expressway Ends. Desarrollo y construcción de las autopistas urbanas en Estados Unidos: 1900-1967  
http://hdl.handle.net/10803/359394  
Reading date: 03/02/2016  
Thesis language: Spanish  
Thesis director: Joaquim Sabaté Bel

Cristina mariana debat  
Entre la abstracción y la realidad. Ideas y estrategias de ciudad en la construcción de Córdoba y Rosario  
http://hdl.handle.net/10803/395182  
Reading date: 30/05/2016  
Thesis language: Spanish  
Thesis director: Joaquim Sabaté Bel

Gabriel peré horrach estarellas  
Aprendiendo de la balearización. Mallorca, un laboratorio internacional del turismo de masas y de conformación de los destinos maduros litorales  
http://hdl.handle.net/10803/384617  
Reading date: 25/01/2016  
Thesis language: Spanish  
Thesis director: Joaquim Sabaté Bel

Mónica susana martínez de rusconi  
Los pueblos del desierto. El proceso de ocupación y urbanización del territorio nacional de la Pampa, Argentina  
http://hdl.handle.net/10803/393949  
Reading date: 26/04/2016  
Thesis language: Spanish  
Thesis director: Joaquim Sabaté Bel, Mónica Ferrari

Ana carolina pagliuso de andrade  
La llei de barris: un pas endavant en la regeneració urbana  
http://hdl.handle.net/10803/386476  
Reading date: 27/06/2016  
Thesis language: Spanish  
Thesis director: Joaquim Sabaté Bel, Fernando Alcántara

Mélisa pesoa marcilla  
Una ciudad para la Pampa. La construcción del territorio en la Provincia de Buenos Aires (1820-1916)  
http://hdl.handle.net/10803/398609  
Reading date: 28/06/2016  
Thesis language: Spanish  
Thesis director: Joaquim Sabaté Bel, Zaida Muñiz Martínez

Renata priore lima  
Plugin. Interfaces urbanas en los nuevos centros lineales. El caso de la Avenida Paulista  
http://hdl.handle.net/10803/300598  
Reading date: 16/07/2015  
Thesis language: English  
Thesis director: Estanislau Roca Blanch

2015

Lorena bello gómez  
Hybrid Networks sacred itineraries towards Santiago & Finisterre  
Reading date: 21/12/2015  
Thesis language: English  
Thesis director: Joan Buxquets Grau, Miguel Corominas Ayala

Máriá Laura bertuzzi  
Marcas en el Paisaje. Permanencias y ausencias como pautas de interpretación del territorio ribereño. Tramo La Guardia-San Javier  
http://hdl.handle.net/10803/333338  
Reading date: 18/12/2015  
Thesis language: Spanish  
Thesis director: Joaquim Sabaté Bel

Pedro José dos santos da Fonseca bento  
El papel de los centros comerciales y de ocio urbanos en la construcción de la ciudad compacta contemporánea. Los casos de Lisboa y Barcelona  
http://hdl.handle.net/10803/397707  
Reading date: 07/04/2015  
Thesis language: Spanish  
Thesis director: Estanislau Roca Blanch, Miquel Martí Casanovas

Purificación Díaz Ameneiro  
Pateando el litoral. La construcción del territorio del turismo de masas  
http://hdl.handle.net/10803/373217  
Reading date: 09/07/2015  
Thesis language: Spanish  
Thesis director: Ricard Pie Ninot

Eulàlia María Gómez Escoda  
Comerç, ciutat, paisatges arran de terra  
http://hdl.handle.net/10803/348259  
Reading date: 04/12/2015  
Thesis language: Catalan  
Thesis director: Enric Serra Riera

Konstantinos kourkoutas  
On the question of limits. The role of ecotones in the management and reintegration of transforming urban environments. Urban ecotones as territorial indicators and interfaces of urban reconfiguration. An applied study of the urban regional mosaic of the city of Thessaloniki, Greece  
http://hdl.handle.net/10803/300598  
Reading date: 16/07/2015  
Thesis language: English  
Thesis director: Carlos Juan Llop Torné

Gustavo pires de andrade neto  
El planejament metropolità de la Barcelona predemocràtica: Plans, protagonistes i referents teòrics (1939-1976)  
http://hdl.handle.net/10803/334976  
Reading date: 30/07/2015  
Thesis language: Catalan  
Thesis director: Ferran Sagarra Trias

Rosina vinyes ballbé  
Barcelona oculta. La rellevància del subsòl en una gran ciutat contemporània  
http://hdl.handle.net/10803/323901  
Reading date: 30/11/2015  
Thesis language: Catalan  
Thesis director: Ángel Francisco Martín Ramos
Objectives

This doctoral program is designed for architects or graduates in the humanities, archaeology or fine arts who hold a master’s degree in architecture, archaeology or the humanities, identical or equivalent to the master’s program offered by the Department and who wish to write a doctoral thesis on the history or theory of arts and architecture supervised by one of the professors from the Department. The creation of this thesis may require bridging courses be taken from the master’s program, as the doctoral program does not offer classes.

The thesis, on a novel subject matter or taking a new approach, supported by primary and secondary sources, drafted in English or Spanish, on a topic involving the history or theory of art or architecture, will be carried out in two stages: the first, a year of research during which candidates will come up with a research plan that must be submitted to and approved of by a panel, and the second, the execution of said thesis. Thesis supervisors and the Doctoral Committee, along with two external reports, will assess and accept the thesis before it may be presented to an examination committee.

The department will provide candidates with access to the ETSAB library and databases, and the three essential pillars that places the Gaudí Chair as a documentation and research centre at the international level: the collection, the archives and the library.
ANTIGONI GERONTA
Tempragia en São Pedro da Afurada: Lecturas y prácticas interpretativas del hábitat
http://hdl.handle.net/10803/669288
Reading date: 25/01/2018
Thesis language: Spanish
Thesis director: Marta Llorente Díaz

CAMILA SALGADO BONNET
Le Corbusier y el poema del ángulo recto
http://hdl.handle.net/10803/620797
Reading date: 25/01/2017
Thesis language: Spanish
Thesis director: Josep Maria Rovira Gimeno

ADRIÁN TORRES ASTABURUA
Ciutat Vella València: Memoria del agua, estratigrafía urbana, reactivación de uso
http://hdl.handle.net/10803/664700
Reading date: 14/12/2018
Thesis language: Spanish
Thesis director: Manel Guàrdia Bassols, Nicolas Tixier

2017

MARTA BORDAS EDDY
Universal Accessibility: On the need of an empathy-based architecture
http://hdl.handle.net/10803/405709
Reading date: 10/02/2017
Thesis language: Portuguese
Thesis director: Rui Jorge García Ramos, José Ángel Sanz Esquide

MAURICIO RAFAEL DE JESÚS PUELLO BEDOYA
Postectónica. Ultrabiología, noosfera y máquina, en el hábitar planetario de Teilhard de Chardin
http://hdl.handle.net/10803/405939
Reading date: 20/10/2017
Thesis language: Spanish
Thesis director: Ricardo Ernesto Daza Caicedo

DIOGO CARDOSO BARRETO
Arquitectura e Projeto de Catalunha na Transição entre os Séculos XIX e XX: Um olhar desde as discussões desenvolvidas no Ateneu Barcelona
http://hdl.handle.net/10803/457561
Reading date: 12/07/2017
Thesis language: Portuguese
Thesis director: Antoni Ramon Graells
I had doubts when I had to choose a topic for my PhD. While a professor would tell me I should focus on a very specific matter, to avoid working on a well-known field of study and attain a really novel thesis—although of limited scope—another professor would advise to choose whatever topic I was fond of be it wide or specific, well-known or yet to discover, because a thesis is not an end but a beginning, the clearing out of a territory that, in spite of the imperfections and limitations of the work, delimits the scholar’s own research field that, with time, one discovers is the seed of all future researches.

Both stances are defendable. The first one leads directly to an original topic, that can soon dry up. While the second one defines a space from where we would never come out again because of all the riches that can unearth over time. Working on a PhD thesis would then be comparable to an archaeological dig that unearths layers of contents to which one only gets, and learns how to interpret, through the years. The first one leads to a research: a complete work most probably without continuity, a close case. On the contrary, the second one discovers a researcher that will go on, if allowed to, exploring that self-space previously mentioned. A PhD is a ‘boarding’, the attempt to conquer a space that can be shared, and whose explorations, by several researchers, will bring the most rewarding fruits.

But not all topics are possible. As in any department, there are topics better aligned with the objectives of the members of the department. In our case, we have been repeatedly working on three spaces:

— The modern city and architecture in South America, without dismissing their colonial past. We have been looking for the contact elements with the commonly accepted modern architecture, appreciating, at times, the versions and variations contributed by South American architects. However, the history of the setting up and habitation of spaces previous to the colonization is still an unspoiled territory and, therefore, awaiting to be explored by the doctors and PhD students of the department.

— Occidental contemporary and modern cities and architectures have also been usual topics. They have demanded documentation work in archives, which sometimes allowed putting in context, bolster or complete works of the past. Currently, works on canonical architects are becoming less common in favour of less analysed authors whose voices and works, however, help to rewrite the history of modern architecture, mainly occidental.
Cultural studies have started to flourish over the last years. They are studies that address the understanding of architecture from the standpoint of other arts: mainly literature, plastic arts, photography and cinema, mostly within the framework of the commonly accepted occidental tradition. Those visions of architecture that throw light upon the works of the architect are leaded many times by theorist architects and specially artists able to imagine spaces and ways of living not limited yet by techniques and materials. They are studies on the poetry of (the inhabited) space, on how it is perceived and understood by means not strictly technical.

These readings also take into account the readings of collectives that sometimes have no voice, and also the spaces in border conditions where we may find, more intensely, ways of fitting out and inhabit the space.

A variant of this approach to human space is focused on visions from ancient times that can enrich and ease our understanding on how we inhabit the Earth. The contribution of old Greco-Latin and Christian cultures is completed with those of other antic or current cultures and religions in which the voice of the myths, dynasties and legends can help understand how we value the works of the architect. These works are intertwined with the ones previously described because, on one side, they value the tangible, measurable, archaeological remains, but on the other, they value what the texts reveal, showing that architecture needs to be studied in situ, but also on the space made available by literature.

These multiple perspectives on our built or planned environment, from the present and the past, from architecture, the theory of the arts, anthropology, geography, urban planning and archaeology can help the PhD student when choosing their path; that can be obviously abandoned, but which, walked with determination, curiosity and care, can lead them to Emerald City or what lies behind the looking glass, from where they can have a more lucid vision of the world we inhabit and we have constructed for better or worse.
General objectives

The aim of the doctoral program is to train future researchers in the field of technologies used in the realization of architecture, building construction and urban planning. In the latter case, we refer to the subfield of activities involved in the realization of urban planning.

The doctoral training of these professionals has three general objectives:

Provide public and private entities that are active in research, development and innovation with professionals trained to the highest level who can work in these areas.

Diversify and specialize the professional profile of architects, quantity surveyors and engineers. Promote their recognized qualities of analysis and synthesis, and direct them at the production of new knowledge that can generate a better quality of life in the built environment of their fellow citizens.

Increase the qualitative level of the built environment in Spain, in which there are still evident shortcomings, and that is still prone to a predominantly quantitative approach.
Theses and derived results, courses 2014/15-2019/20

2020

GUZIDE ASLAN KAYA
Influence of joints on the seismic response of traditional timber frames in Turkey
http://hdl.handle.net/10803/668866
Reading date: 03/03/2020
Thesis language: English
Thesis director: Jaime Avellaneda Díaz-Grande, Albert Albareda Valls

HÉCTOR ANDRÉS CANTOS CORONEL
Hexagons pliables y transportables: Un sistema prefabricado con nudos articulados bloqueables
http://hdl.handle.net/10803/668843
Reading date: 19/02/2020
Thesis language: Spanish
Thesis director: Ramón Sastre Sastre, David García Carrera

DIANA CAROLINA GÁMEZ GARCÍA
Análisis del Ciclo de Vida en la construcción: evaluación de las etapas incorporadas de los elementos de la vivienda y de su entorno urbano
http://hdl.handle.net/10803/669308
Reading date: 29/05/2020
Thesis language: Spanish
Thesis director: José Manuel Vicente Gómez Soberón, Ramón Corral Higuera

HÉCTOR SALDÁN MÁRQUEZ
Sistemas de evaluación de la vivienda hacia ciudades sostenibles: Análisis de su impacto en el edificio y en el entorno urbano
Reading date: 29/05/2020
Thesis language: Spanish
Thesis director: José Manuel Vicente Gómez Soberón, Susana Paola Arredondo Rea

OMAR FABRISIO AVELLANEDA LÓPEZ
Diseño paramétrico de las estructuras desplegables: Control Límite de Movimiento
http://hdl.handle.net/10803/669320
Reading date: 16/07/2020

2019

CALDERÓN PEÑAFIEL, JUAN CARLOS
Estudio experimental de geopolímeros de arcillas en función de la resistencia mecánica
http://hdl.handle.net/10803/667124
Reading date: 20/06/2019
Thesis language: Spanish
Thesis director: Jaime Avellaneda Díaz-Grande, Juan Ramón Rosell Amigó

PAULA MARTÍN GOFÍ
Regeneración perfectible, adaptable y sostenible. Análisis y propuesta de criterios para la regeneración de los polígonos residenciales construidos en los años 60 y 70 en Europa
Reading date: 29/04/2019
Thesis language: Spanish
Thesis director: Jaime Avellaneda Díaz-Grande, José María González Barroso

JOSÉ LUIS MUÑOZ LÓPEZ
Planificación operativa para el ajuste del tiempo en obras para anticipar su disponibilidad: experiencia en intervenciones reiterativas de construcción para cadenas comerciales de retail
http://hdl.handle.net/10803/665812
Reading date: 30/01/2019
Thesis language: Spanish
Thesis director: Joan Lluís Zamora Mestre

LUDOVICA ROSSI
Diseño en flexión activa con neumáticos recuperados: Análisis de la morfología bio-inspirada en la estructura del cactus
http://hdl.handle.net/10803/668046
Reading date: 25/11/2019
Thesis language: Spanish
Thesis director: Fernando Juan Ramos Galino

MOHAMMAD REZA ZAKER HOSSEIN
BIM implementation in architectural practices: towards advanced collaborative approaches based on digital technologies
http://hdl.handle.net/10803/668050
Reading date: 06/11/2019
Thesis language: English
Thesis director: Joan Lluís Zamora Mestre, Eliol Coloma Picó

2018

HENRY HERNAN CARVAJAL JARAMILLO
La construcción de templos conventuales masculinos en el nuevo Reino de Granada
http://hdl.handle.net/10803/586047
Reading date: 25/05/2018
Thesis language: Spanish
Thesis director: José Luis González Moreno-Navarro

RAÚL SERRA FABREGÀ
Proposta de desenvolupament de sistema innovador per a l’extradosat de paraments interiors en habitats com a la rehabilitació de les seves prestacions
http://hdl.handle.net/10803/458877
Reading date: 12/05/2017
Thesis language: Catalan
Thesis director: Joan Lluís Zamora Mestre

2017

EVA CRESPO SÁNCHEZ
El component bloc tècnic. Nova concepció dels traçats verticals als edificis plurifamiliars actuals a Catalunya
Reading date: 24/07/2017
Thesis language: Catalan
Thesis director: Francesc de Paula Daumal Domenech, Adrián Muros Alcoijor

FRANCISCO JAVIER FERRÉS PARDÓ
Fachadas ligeras: un proceso hacia el límite. Diseño y Construcción de Fachadas Ligeras. Del concepto arquitectónico y el detalle técnico a la obra construida
http://hdl.handle.net/10803/665246
Reading date: 11/07/2017
Thesis language: Spanish
Thesis director: Josep Luis Amador Navarro

ANNA FEU JORDANA
Les voltes de rajola doblada. Construcció i seguretat estructural de les esglésies barroques catalanes
http://hdl.handle.net/10803/405989
Reading date: 03/03/2017
Thesis language: Spanish
Thesis director: Luis Moya Ferrer

2016

JAUME ALENTORN PUIGCERVER
Estudio de la precisión del método de los componentes para la predicción del comportamiento rotacional de una base de pilar. Propuestas de mejora para el caso de estudio
http://hdl.handle.net/10803/393526
Reading date: 04/03/2016
Thesis language: Spanish
Thesis director: Agustín Obiol Sánchez, Jordi Maristany Carreras
CAMILA ANDREA BURGOS LEIVA
“Análisis del comportamiento de las fachadas de madera en zonas con clima mediterráneo” Evaluación de la degradación de probetas de madera de diferentes especies, tratamientos y acabados en cinco zonas climáticas mediterráneas
http://hdl.handle.net/10803/394076
Reading date: 30/05/2016
Thesis language: Spanish
Thesis director: Jaime Avellaneda Díaz-Grande

ORIOL MUNTANÉ RÀCH
Análisis técnico y físico del comportamiento de los tejados “fresques” (cool roofs): el caso de Catalunya
http://hdl.handle.net/2117/105140
Reading date: 22/12/2016
Thesis language: Catalan
Thesis director: Joan Lluís Zamora Mestre

JELENA NIKOLIC
Refurbishment scenarios for post-war industrialized housing in Beograd
http://hdl.handle.net/10803/387923
Reading date: 05/02/2016
Thesis language: English
Thesis director: Josep Ignasi de Llorens Duran

ESTER PUJADAS GISPERT
Prefabricated foundations for housing applied to room modules
http://hdl.handle.net/10803/392154
Reading date: 01/02/2016
Thesis language: Spanish
Thesis director: Josep Ignasi de Llorens Duran

PATRICIA TORRES SÁNCHEZ
Un viaje en el tiempo: Análisis e interpretación del proceso didáctico, proyectual y constructivo del Museo Nacional de Antropología de la Ciudad de México 1964. Señalética en el diseño de los plafones: Innovación y Vigencia
http://hdl.handle.net/10803/385436
Reading date: 19/01/2016
Thesis language: Spanish
Thesis director: Francesc de Paula Daumal Domènech, Fernando Juan Ramos Galino

2015

LUIS MATÍAS BARAJAS SALDAÑA
Procedimiento alternativo para la calificación energética de viviendas de nueva construcción. Aplicación al caso de Viviendas de Interés Social en la ciudad de Saltillo, Coahuila, México
http://hdl.handle.net/10803/333337
Reading date: 11/12/2015
Thesis language: Spanish
Thesis director: Joan Lluís Zamora Mestre, Jaime Roset Calzada

CÓSSIMA CORNADÓ BARDÓN
Comportament mecànic-estructural dels edificis històrics de murs d’obra de fàbrica de maó de l’Eixample de Barcelona
http://hdl.handle.net/10803/319441
Reading date: 21/09/2015
Thesis language: Catalan
Thesis director: César Díaz Gómez

DAVID GARCÍA CARRERA
La excavación urbana y los edificios vecinos
http://hdl.handle.net/10803/312845
Reading date: 15/07/2015
Thesis language: Spanish
Thesis director: Ramón Sastre Sastre

RODRIGO MARTÍN SÁIZ
Diseño de anillos de compresión no circulares y distribución óptima de fuerzas en el plano
http://hdl.handle.net/10803/335273
Reading date: 18/12/2015
Thesis language: Spanish
Thesis director: Ramón Sastre Sastre

JOAN OLONA CASAS
Avaluació de l’envolupant dels edificis del Moviment Modern a Barcelona
http://hdl.handle.net/10803/323392
Reading date: 03/09/2015
Thesis language: Catalan
Thesis director: José Luis González Moreno-Navarro

MARIANA PALUMBO FERNÁNDEZ
Contribution to the development of new bio-based thermal insulation materials made from vegetal pith and natural binders: hygrothermal performance, fire reaction and mould growth resistance
http://hdl.handle.net/10803/314580
Reading date: 08/10/2015
Thesis language: English
Thesis director: Ana María Lacasta Palacio, Jaime Avellaneda Díaz-Grande

SONSOLES PUNTOS PÉREZ
Los tratados de construcción históricos británicos siglos XVII y XVIII: Análisis de sus contenidos sobre técnicas de construcción y su aplicación en rehabilitación
http://hdl.handle.net/10803/322072
Reading date: 29/09/2015
Thesis language: Spanish
Thesis director: José Luis González Moreno-Navarro, Belén Onecha Pérez
Objectives
This program seeks inter-university doctoral research in the areas of management, coordination and development of multidisciplinary studies for the representation, modelling and refurbishment of built heritage.

It articulates the team of doctors participating at the UPC research group Architectural Representation and Modelling (AR&M), recognized by the Generalitat de Catalunya, within which several interest areas are developed: Knowledge of historical buildings and centres: past and future developments. Characterization of existing buildings: systems, conservation and adaptation. Study and representation of architectural heritage (archaeological / historical) in Catalonia. Communication of the architectural project’s idea. Its analysis and development. Study and representation of landscape; its heritage values. Heritage and public space. Cognitive space and dynamics. Sustainable urban forms and processes of urban regeneration and heritage. Modelling and visualization in architecture, civil, urban planning and design works. Re-use of architectural and urban heritage. Vernacular and rural architecture. Heritage and scale values.
2020

GUILLERMO REYNÉS CORBELLA
Una arquitectura interrumpida: El regionalismo como búsqueda utópica entre tradición y modernidad
Reading date: 30/10/2020
Thesis language: Spanish
Thesis director: Antonio Millán Gómez, Luis Giménez Mateu

BRUNO ANDRZEJ SEVE
Urban co-creation: Community Planning, bottom-up and participation tools
Reading date: 12/11/2020
Thesis language: English
Thesis director: Ernest Redondo Domínguez, Roberto Sera

MIGUEL SANTIAGO OLIVER MONSERRAT
Los sistemas defensivos de la ciudad de Palma y su influencia en el desarrollo de la trama urbana en los siglos XVII al XIX
http://hdl.handle.net/10803/669780
Reading date: 22/07/2020
Thesis language: Spanish
Thesis director: Luis Bravo Farré, Mª Carmen Escoda Pastor

2019

YIMENG ZHANG
Chinese Drawing, Architectural Poetics: Traditional Painting as a Semantic Representation of Modern Architectural Design
http://hdl.handle.net/10803/667528
Reading date: 10/09/2019
Thesis language: English
Thesis director: Luis Bravo Farré

BRUNA CAROLINE PINTO CAMPOS
Arquitectura y diseño flexible: Una revisión para una construcción más sostenible
http://hdl.handle.net/10803/669780
Reading date: 22/07/2020
Thesis language: Spanish
Thesis director: Luis Bravo Farré, Mª Carmen Escoda Pastor

MIGUEL SANTIAGO OLIVER MONSERRAT
Los sistemas defensivos de la ciudad de Palma y su influencia en el desarrollo de la trama urbana en los siglos XVII al XIX
http://hdl.handle.net/10803/669780
Reading date: 22/07/2020
Thesis language: Spanish
Thesis director: Luis Bravo Farré, Mª Carmen Escoda Pastor

2018

PAOLO BELLONI
La experiencia del ILAUD y la “Escuela de Barcelona”
http://hdl.handle.net/10803/663089
Reading date: 20/07/2018
Thesis language: Spanish
Thesis director: Ernest Redondo Domínguez

JOSEP LLORCA BOFÍ
The generative, analytic and instructional capacities of sound in architecture: Fundamentals, tools and evaluation of a design methodology
http://hdl.handle.net/10803/664194
Reading date: 04/12/2018
Thesis language: English
Thesis director: Jesús Alba Fernández, Ernest Redondo Domínguez

YING LI
Renovation of Vernacular Architecture in Rural China
http://hdl.handle.net/10803/406006
Reading date: 08/03/2017
Thesis language: Catalan
Thesis director: Isabel Crespo Cabillo

MIGUEL SANTIAGO OLIVER MONSERRAT
Los sistemas defensivos de la ciudad de Palma y su influencia en el desarrollo de la trama urbana en los siglos XVII al XIX
http://hdl.handle.net/10803/669780
Reading date: 22/07/2020
Thesis language: Spanish
Thesis director: Luis Bravo Farré, Mª Carmen Escoda Pastor

JUAN MERCADÉ BRULLES
The elements of drawing & The Lamp of Life: J. M., Jújol desde una mirada contemporánea
Thesis link: net/10803/667485
Reading date: 13/09/2019
Thesis language: Spanish
Thesis director: Luis Bravo Farré, Renata De Mendonça Espinheira Gomes
**ACC – Architecture, City and Culture**

**TYPE** Research group  
**TYPE OF GROUP** UPC research group  
**ACRONYM** ACC  
**RESPONSIBLE** Marta Llorente  
**TEAM** Pedro Azara, Sandra Bestraten, Carlos Bitrián, Ricard Gratacós, Olga Pons, Carmen Rodríguez, Mónica Sambade, Antonio Sanmartín, Marta Serra  
**URL** https://futur.upc.edu/ACC

**Objectives** Interdisciplinary group made up of staff trained mainly in architecture and urban planning, but also in philosophy, anthropology, art history and psychology. The fundamental idea is to incorporate an anthropological focus into architectural knowledge: the study of the culture of inhabiting, experience, knowledge of disciplines focused on the study of the city today.

**ACM – Critical Analysis of Modernity: Architecture and the City**

**TYPE** Research group  
**TYPE OF GROUP** UPC research group  
**ACRONYM** ACM  
**RESPONSIBLE** Antoni Ramon Graells  
**TEAM** Ricardo Devesa, Carolina B. García-Estévez, Josep Maria Garcia, Julio F. Garnica, Enrique Granell, Ramón Graus, David Hernández, Juan José Lahuerta, Celia Marín, Raúl Martínez, Josep M. Montaner, Zaida Muxí, Teresa Navas, Jordi Oliveras, José Luis Oyón, Antonio Pizza, Maribel Rosselló, Alessandro Scarnato, Miguel Usandizaga  
**URL** https://futur.upc.edu/ACM

**Objectives** The ACM group focuses its research on architecture and the modern city by adopting an essentially relational approach to bring critical elements to discussions and articulate alternative visions to current intervention policies.

With this aim, it combines the generation of references, theoretical perspectives and visions compared to the rigorous historical documentary work on case studies as a basis for new critical contributions.

It integrates diverse and complementary approaches that explore those areas and the processes of change strongly linked to the transformations of the architecture and the city of the nineteenth, twentieth and twenty-first centuries, such as the fields of art and technology, the emergence and expansion of the notion of heritage and, in general, of all relevant problems in society and the culture of modernity.
**AIEM – Architecture, Energy and Environment**

**TYPE** Research group  
**TYPE OF GROUP** UPC research group  
**ACRONYM** AIEM  
**RESPONSIBLE** Helena Coch  
**TEAM** Carlos Alonso, Benoit Beckers, Carlo Cecere, Isabel Crespo, Albert Cuchí, Elena García, Manuel García, Pablo Garrido, Antonio Islagüé, Judit López, Marta López, Juan Antonio Marín, Michele Morganti, Anna Pagès, Cristina Pardal, Jaime Prous, Alessandro Regora, Jaume Roset, Josep Rotger, Agnese Salvati, Glòria Serra, Xavier Solsona, Jefferson Torres, Joan Lluís Zamora  
**WEB** [http://www.aie.upc.edu/](http://www.aie.upc.edu/)  

**Objectives** The AIEM research group investigates architecture from the environmental point of view. Its research considers the environmental parameters affecting human comfort and perception as well as the possible impact that building activities can have on cities and the environment. Its activity considers different scales, from architectural indoor qualities and building elements to public spaces and features of urban morphology. Following this line of interest, the group has developed extensive research related to the integration of renewable energies, the life cycle of materials, quality of life, bioclimatic architecture and other fields involving architecture, energy and environment. This work, carried out since 1980, along with the expertise of the group members, puts AIEM in an excellent position to progress on the right path towards high-level research.

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**AR.I.EN – Architecture, Industry and Engineering**

**TYPE** Research group  
**TYPE OF GROUP** UPC research group  
**ACRONYM** AR.I.EN  
**RESPONSIBLE** Alberto Peñín  
**TEAM** Isabel Bachs, Jaime Coll, Carlos Ferrater, Eduardo Gascón, José M. González, Oscar Linares, Ignacio López, Enric Masip, Mara Partida, Miquel Rodríguez, Jordi Ros, Jorge Urbano, Jaume Valer  
**WEB** [https://futur.upc.edu/AR.I.EN](https://futur.upc.edu/AR.I.EN)  

**Objectives** The group proposes an integrated vision of architecture with the aim of producing knowledge that is of use to the profession and to society. It unites professors from Barcelona Tech from different departments to propose research topics linked to what makes the architectural project a multiple, applied discipline, linking it to materialisation processes where engineers and contractors play a primumordial role. The 4 sub-fields of work are: architecture and engineering, architecture and industry, architectural works and the social reasoning for the technique.

Integrating this new team, the group broadens its interests and provides continuity to the Cátedra Blanca (White Chair) of Barcelona, the first business professorship in the world of architecture, founded by Carlos Ferrater and Alberto Peñín in 1999. They are notable for signing agreements, organising and participating in congresses, holding competitions and creating and consolidating the editorial and indexed journal “Palimpsesto”.

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**CERCLE – Architecture Circle**

**TYPE** Research group  
**TYPE OF GROUP** UPC research group  
**ACRONYM** CERCLE  
**RESPONSIBLE** Eduard Bru  
**TEAM** Xavier Llobet and Ignacio Paricio  
**WEB** [https://futur.upc.edu/CERCLE](https://futur.upc.edu/CERCLE)  

**Objectives** Architecture is something produced on-site, on the building site, with the same use as the building process. In the Cercle Research Group, we talk about situations rather than theories. Situations set and told in order to increase our significant potential for using architecture in every sense: that is what architecture is about. Cercle becomes a journal that explains stories and ideas that can improve the way we deal with things, the way we stay within things.

To bring the teaching of design closer to professional practice, the substantial changes that have taken place in the profession mean universities need to respond quickly. Architecture studios focus on large-scale structures and, at the same time, the architect’s work is fragmented. The following questions must be answered:

1. What kind of professional do we need to provide?  
2. How can the position of universities influence professional development?

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**CPSV – Centre of Land Policy and Valuations**

**TYPE** Research group  
**TYPE OF GROUP** UPC research group  
**ACRONYM** CPSV  
**RESPONSIBLE** Jose Nicasio Roca  
**TEAM** Pilar García, Carlos Marmolejo, Blanca Arellano, Rolando Biere, Jordi Casals, Juan Manuel Corso  
**WEB** [https://www.upc.edu/cpsv/](https://www.upc.edu/cpsv/)  

**Objectives**

- **CPSV** – Centre of Land Policy and Valuations: The group focuses on research related to urban complexity, the evaluation of the design—of the product or interiors—from a mental point of view. Its research considers the environmental parameters affecting the project and the possible impact that building activities can have on cities and the environment. This work, carried out since 1980, along with the expertise of the group members, puts CPSV in an excellent position to progress on the right path towards high-level research.

The main objective of the research group is the strategic consolidation and cohesion of the lines of investigation by researchers in the Department of Architectural Representation of Barcelona Tech who have in recent years developed scientific production and technological transfer with proven evaluation, the desire and trends to improve.

These experiences, as well as the results achieved (patrimonial restitution, representation of architectural projects, application of ITC technologies to the creation of representational models on various scales, from architectural systems to urban complexity, the evaluation of the design—of the product or interiors—and educational research with ITC tools applied to architecture), all suggest an intensification of the most productive fields of research, optimising productivity and educational research with ITC tools applied to architecture), all suggest an intensification of the most productive fields of research, optimising productivity and educational research with ITC tools applied to architecture.

The Architectural Representation of Barcelona Tech who have in recent years developed extensive research related to the integration of renewable energies, the life cycle of materials, quality of life, bioclimatic architecture and other fields involving architecture, energy and environment. This work, carried out since 1980, along with the expertise of the group members, puts AIEM in an excellent position to progress on the right path towards high-level research.

Since its creation in 2012, the group has been primarily focused on carrying out the MINECO R+D project, (EDU2012-37247), “E-learning 3.0 in architecture teaching. Case studies of educational research for an immediate future” and the project for innovation in teaching, AGAUR. MOOC “From reality to the project. From the life cycle of materials, quality of life, bioclimatic architecture and other fields involving architecture, energy and environment. Its activity considers different scales, from architectural indoor qualities and building elements to public spaces and features of urban morphology. Following this line of interest, the group has developed extensive research related to the integration of renewable energies, the life cycle of materials, quality of life, bioclimatic architecture and other fields involving architecture, energy and environment. This work, carried out since 1980, along with the expertise of the group members, puts AIEM in an excellent position to progress on the right path towards high-level research.

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**Objectives** The Centre for Land Valuation Policy is a multidisciplinary group of researchers who carry out research and specialised teaching in fields such as land use and the environment, town planning management and administration, urban valuations, geographical information systems, the virtual modelling of architecture and cities, and the sustainability of urban life. Its objectives are to encourage knowledge, innovation and research at the University; to develop new methodologies, technological applications and instruments for optimisation and improvement; to measure the impact on land, the environment and cities; to study property, land management and town planning; and to train students in these fields to a highly specialised level. The CPSV generates, promotes and disseminates new scientific and technological know-how related to its fields of competence. It establishes links between research groups and companies and the local government, with the aim of improving processes, products and services.

**FORM+ – Research Group FORM+**

**TYPE** Research group  **TYPE OF GROUP** UPC research group  
**ACRONYM** FORM+  **RESPONSIBLE** Félix Solaguren-Beasac  
**TEAM**-UPC: Fernanda Aguirre, Antonio Armesto, Cristina Gascón, Eduardo Genari, Sandra Hernández, Inés Lima, Diego López, Miguel Mayorga, Andrea Parga, Álvaro Solis [WEB] https://click.upc.edu/

**Objectives** This group is the result of the follow-up and compilation since 2014 of the photographic production related to Latin American modern architecture, accessing an extensive documentary base, related to the 1940s to the 1960s. In total, approximately 20,000 photographic references of different types and origins -institutional and personal archives, publications, 600 works of architecture and a selection of 40 photographers whose work has had a fundamental impact on the dissemination and production of architecture in Latin America and on the whole world. The documentary resources reveal unprecedented perspectives of architecture and the imaginary that records them. The group has issued publications, guided doctoral theses and obtained funding. A significant network of international collaboration has been confirmed.

The group's second field of work is Nordic architecture, in particular Danish, from the mid-19th century to 1971.

**GAT – Grup d’Arquitectura i Tecnologia**

**TYPE** Research group  **TYPE OF GROUP** UPC research group  
**ACRONYM** GAT  **RESPONSIBLE** Adrià Muros  
**TEAM** Isabel Amaya Caballero, Eva Crespo, Josep Ignasi de Llorens, Núria Miralles, Jelena Nikolic, Jordi Pagés, Oriol Pons, Anna Alexandra Ramos [WEB] https://wwwgat.webs.upc.edu/portada.html

**Objectives** GAT carries out research into the technology of innovative construction processes, sustainable environmental conditioning and technical building services highly integrated in building. It is working on developing patents for industrialised construction elements and lighting, as well as the design of proto- types of elements related to lightweight structures, textile constructions, membranes and natural and artificial lighting systems.

Textile construction and tensile structures require a wide variety of joints, connections, fittings and anchors. To design the details it is necessary to know the dimensions and resistance of every part involved.

The 'Joints, connections, fittings and anchors data bank for textile construction and tensile structures' provides data from manufacturers, professionals or extracted from the bibliography available. We kindly request your contributions and comments.

**GICITED – Interdisciplinary Group on Building Science and Technology**

**TYPE** Research group  **TYPE OF GROUP** UPC research group  
**ACRONYM** GICITED  **RESPONSIBLE** Ana Maria Lacasta  
**TEAM** Alina Avellaneda, Montserrat Bosch, Domingo Gimeno, Maria Pilar Giraldo, José Manuel Gómez, Ricardo Gómez, Laia Haurie, Emili Hormias, Joaquín Montón, Antonia Navarro, Mariana Palumbo, Judith Ramírez, Juan Ramon Rosell, Inmaculada Rodríguez, Edgar Segués, Marc Tous [WEB] http://gicited.upc.edu/

**Objectives** The GICITED was created in 2008, although many scientific collaborations between its members had already begun. In 2009, the group received the recognition of the Generalitat de Catalunya as an ‘emerging group’ and subsequently, in 2014 and 2017 calls, as a ‘consolidated group’.

It is a highly multidisciplinary group whose main objectives are to contribute to the development of sustainable buildings, with high levels of performance and safety. More specifically, it works on the design and characterization of new materials and construction systems, with specific features for use in new builds, as well as in refurbishment.

The main challenges of the group are:

- The promotion of the use of sustainable and renewable resources in the construction sector.
- The development of sustainable solutions for building envelopes: thermal insulators based on biomaterials, green facades and systems for improving the thermal inertia of buildings.
- The promotion of energy rehabilitation in public buildings and housing.
- The promotion of the use of wood in building construction.
- The reuse of waste from demolition and construction, to obtain new materials.
- The definition of testing protocols for the diagnosis and restoration of traditional materials and structures.
- Recovery of traditional construction techniques, related to the use of gypsum and lime.
- The development of binders, mortars and concrete with low CO₂ emissions.
- The reduction of fire risk in buildings.
- The improvement of the thermal and acoustic comfort in the interior spaces.
GILDA – Group for Teaching Innovation and Logistics in Architecture

GILDA aims to provide a response to the need for teaching research and innovation in the field of architecture, by training work sub-groups and organising specific activities for the discipline of architecture. The interest of GILDA lies in the need for teamwork between the different departmental areas and all of the Schools of Architecture in Catalonia and Spain, in collaboration with international schools, to train, innovate and ultimately improve teaching in this discipline. The objectives of the Group for Teaching Innovation and Logistics in Architecture focus on these five points related to research and innovation in architecture teaching:

**Objectives**
- Promote constant improvement, innovation and reflection regarding teaching in architecture.
- Receive and promote specific training for architecture teachers.
- Incentivise research into specific learning methods for architecture.
- Promote all types of meetings to promote debate and exchange of innovative architecture-related teaching experiences.
- Develop projects for teaching innovation, with access to scholarships and grants.
- Promote collaboration on the subject of teaching between all the departments linked to the Schools of architecture in Barcelona and Sant Cugat del Vallès.
- Share applied teaching experiences in architecture classrooms, attending congresses and publishing papers in specialised journals.
- Boost the participation of architecture teachers in activities for educational innovation and research.

**Research Group on Architecture: Project, Territory and Society**

**Objectives**
- Architecture rests on three fundamental pillars: dwelling, building and design. For twenty years, the research group has been analysing how and why these three fundamental aspects of architecture are linked. We carry out research into the aesthetic, political and scientific links between the use of space, the design power of our minds and the environmental design strategies and abilities of our time. We ultimately want to know how the built environment affects the way we think and live.

**GREIP – Building Construction and Heritage Research Group**

**Objectives**
- The Building Construction and Heritage Research Group (GREIP) was created in 2004 and was recognised as an Emerging Research Group for Barcelona Tech in 2015. It is attached to the Department of Architectural Construction II, the Department of Architectural Representation II and the Department of Business Organisation, and is made up of a multi-disciplinary team of teachers and researchers from Barcelona Tech.

The main aim of the research group is the technological interpretation of building heritage and its integration in the urban territory.

The main lines of research of the GREIP are:
- Graphic surveying of built architectural heritage using diverse graphic representation techniques and the application of new technologies.
- Cataloguing of built architectural heritage based on historical reports and the graphic representation techniques used.
- Dissemination of built architectural heritage using ITC tools.
- Development of techniques to improve the management of built heritage.
- Development of new construction systems through the design of products with a low environmental impact by using recycled materials.
- Proposal for construction solutions with energy efficiency criteria in the life cycle of buildings.
- Contribution to the definition of theoretical models of the response capacity in structural elements.

**GRU – Urbanism Research Group**

**Objectives**
- Many of the members of the GRU have been working in the field of urban planning, at academic, research and transfer level, for more than 30 years. They have conducted the Master's research and Doctoral programs in Urban Planning (Mention for Quality/Excellence since the beginning), and other international programs: European Master of Urbanism (2005); Arquitectura del Paisatge (Landscape Architecture, 1982); Future City Managers (2010), and collaborate with an extensive network of universities, in both Europe and Latin America.
**INHABITING – Research Group**

**TYPE** Research group  **TYPE OF GROUP** UPC research group  **ACRONYM** INHABITING

**RESPONSIBLE** Xavier Monnés  **TEAM** Eduard Callís, Pere Fuertes, Cristina Jover, Magda Marià, Anna Puigjaner, Núria Salvadó, Ana Santolaria, Roger Sauré, David Steegmann, Toni Vidal

**WEB** https://habitar.upc.edu/

**Objectives** The group’s activity centres on the study of human habitat, both the buildings and the public space, and in the most basic way to understand sustainability, that which is linked to making use of the built space. The group’s work objectives are related to the optimisation of the research undertaken, its dissemination and the influence it has on the field of architecture and the city. For us, for example, the grant obtained in the Recercaixa 2016 call on food and the public space is recognition of the original nature of the research in the field of architecture and specifically the human habitat. This reaffirms our conviction that, in architecture, research needs to open up new fields of work and areas of interest for architects.

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**LITA – Architectural Innovation and Technology Laboratory**

**TYPE** Research group  **TYPE OF GROUP** UPC research group  **ACRONYM** LITA

**RESPONSIBLE** Joan Lluís Zamora  **TEAM** Jaime Avellaneda, Lucia Fernández, Jordi Maristany, Ramón Sastre

**WEB** http://lita.upc.edu/

**Objectives** The LITA Group (Laboratory of Innovation and Technology in Architecture) is an emerging UPC research group that unites experts of different ages, training and experience. They are united by two common points of interest: technology applied to architecture and their everyday contact as teachers in both schools of architecture at the UPC.

**Structure** The group maintains a balanced structure between its research experience and its teaching task at the two schools of architecture at the UPC, Barcelona and Sant Cugat del Vallès. Professor Joan-Lluís Zamora i Mestre is the coordinator of the group and former director of the Department of Architecture Technology I.

The group incorporates mature highly experienced people: full professors, associate professors (TU) and assistant professors (TEU), as well as younger people in the process of promotion. The younger members include two women, one of them from a non-European Union country, which shows the group’s openness to new profiles.

**Interdisciplinary Group** The group consists mainly of architects, all with doctorates, but it also has two doctors of basic sciences, one in physics and the other in chemistry.

The group has also collaborated with teachers from the UPC and other universities in specific activities, including engineering and 3D modelling experts.

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**LUB – Urbanism Laboratory**

**TYPE** Research group  **TYPE OF GROUP** UPC research group  **ACRONYM** LUB

**RESPONSIBLE** Josep Parcerisa  **TEAM** Manuel Bailó, Marta Bayona, Jordi Bellmunt, Álvaro Clua, Carles Crosas, Xavier Eizaguirre, Alex Giménez, Eulàlia Gómez, Mario Jiménez, Jorge Perea, Maria Rubert de Ventós, Manuel Ruizsánchez, Enric Serra, Josep M. Solé

**WEB** http://lub.upc.edu/

**Objectives** The Urbanism Laboratory of Barcelona (LUB) is a Universitat Politècnica de Catalunya (UPC)-BarcelonaTech research centre assigned to the ETSAB Urban Planning Department.

In 1968, under the initiative of Manuel de Solà-Morales, the LUB foundation brought together the teachers Joan Busquets, Antonio Font, Miquel Domingo and José Luis Gómez Ordoñez at Barcelona School of Architecture (ETSAB).

Since then, some year groups of students have participated in the Laboratory’s own initiatives and many teachers have developed their own research. A group of doctoral students are based here. Teachers currently and previously related to the Laboratory have taught at several European and American universities.

It has been considered a UPC Consolidated Research Group since 2004, funded by the AGAUR 2009/2013 under the ‘Observatory of urban cities’ program.

Growth forms and urban morphology are its main areas of study, alongside the modern development of Barcelona, the theory and practice of the urban project and urbanism teaching worldwide.

The digital magazine d’UR was launched in 2010, as a continuation of the UR - Urbanismo Revista (1985-1992). Its numerous publications are notable for d’A. Laboratory Planning collection which includes the main monographic works developed in recent years.

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**REARQ – Rehabilitation and Architectural Restoration**

**TYPE** Research group  **TYPE OF GROUP** UPC research group  **ACRONYM** REARQ

**RESPONSIBLE** Pere Joan Ravetllat  **TEAM** Jordi Adell, Cósima Cornadó, César Díaz, Marta Domènech, José Luis González, Josep M. González, Ramón Gumbó, Alfred Linares, Estefania Martín, Belén Onecha, Félix Pardo, Pere Santamaria, Marti Sanz, Sara Vima

**WEB** https://rearq.upc.edu/es

**Objectives**

To promote basic and applied research to improve and systematize the processes of architectural rehabilitation and restoration, transversely integrating and unifying all parties and disciplines that are usually present.

To develop specific methods and procedures aimed at the adaptation and improvement of the existing building as a whole and more specifically to buildings deemed heritage and urban complexes, by integrating University, Business and Society.

To develop procedures that establish protocols for action from the global and sustainable urban environment where the objective of the intervention is located.
### 2019 Research Activity

**Research teams based at ETSAB1 (Annex)**

- Recognised by AGAUR with financing: 4
- Recognised by AGAUR without financing: 9
- Recognised by UPC: 3
- Government of Catalonia financing to recognized teams: **101,460.00 €**

**Management of research activity**

<table>
<thead>
<tr>
<th># of invoices issued</th>
<th>Amount</th>
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<tr>
<td>346</td>
<td>571,592.01 €</td>
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**New activities starting in 2019 (Annex)**

<table>
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<tr>
<th>Type</th>
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<tr>
<td>National projects</td>
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<tr>
<td>European projects</td>
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<td>45,429.00 €</td>
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<tr>
<td>Donations, grants and awards</td>
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<td>43,500.00 €</td>
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<tr>
<td>Contracts and collaboration agreements</td>
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<td>449,547.22 €</td>
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**Total**

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<th>#</th>
<th>Amount</th>
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<tr>
<td></td>
<td>42</td>
<td>687,376.22 €</td>
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Research Teams based at ETSAB

<table>
<thead>
<tr>
<th>Name / Acronym</th>
<th>Responsible</th>
<th>Dept.</th>
<th>Recognition GovCat</th>
<th>Financing GovCat</th>
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<tbody>
<tr>
<td>HABITAR - Research Group</td>
<td>Xavier Monteys Roig</td>
<td>PA</td>
<td>GRC</td>
<td>35,460 €</td>
</tr>
<tr>
<td>AR.I.EN - Architecture, Industry and Engineering</td>
<td>Alberto Peñín Liobell</td>
<td>PA</td>
<td>GRE</td>
<td>10,000 €</td>
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<tr>
<td>GRU - Urbanism Research Group</td>
<td>Joaquim Sabaté Bel</td>
<td>UOT</td>
<td>GRC</td>
<td>36,000 €</td>
</tr>
<tr>
<td>IQRUB - Urban Quality of Life Research Group: Sustainability, Rehabilitation and Innovation</td>
<td>Josep Roca Cladera</td>
<td>CPSV</td>
<td>GRC</td>
<td>20,000 €</td>
</tr>
<tr>
<td>CERCLE - Architecture Circle</td>
<td>Eduard Bru Bistuer</td>
<td>PA</td>
<td>GRPME</td>
<td>No</td>
</tr>
<tr>
<td>AIEM - Architecture, Energy and Environment</td>
<td>Helena Coch Roura</td>
<td>TA</td>
<td>GRC</td>
<td>No</td>
</tr>
<tr>
<td>ACC - Architecture, City and Culture</td>
<td>Marta Llorente Díaz</td>
<td>THAC</td>
<td>GRC</td>
<td>No</td>
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<tr>
<td>GAT - Group for Architecture and Technology</td>
<td>Adrià Muros Alcojor</td>
<td>TA</td>
<td>GRE</td>
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<tr>
<td>LUB - Barcelona Urbanism Laboratory</td>
<td>Josep Parcerisa Bundó</td>
<td>UOT</td>
<td>GRC</td>
<td>No</td>
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<tr>
<td>ACM - Critical Analysis of Modernity: Architecture and the City</td>
<td>Antoni Ramon Graells</td>
<td>THATC</td>
<td>GRC</td>
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<tr>
<td>ADR&amp;M - Architecture, Design: Representation and Modelling</td>
<td>Ernest Redondo Domínguez</td>
<td>RA</td>
<td>GRC</td>
<td>No</td>
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<tr>
<td>GIRAS - International Research Group on Architecture and Society</td>
<td>Magda Saura Carulla</td>
<td>PA</td>
<td>GRC</td>
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<td>FORM+ - Research Group FORM+</td>
<td>Félix Solaguren-Beascoa</td>
<td>PA</td>
<td>GRC</td>
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<tr>
<td>GILDA - Group for Teaching Innovation and Logistics in Architecture</td>
<td>Jordi Franqueta Sánchez</td>
<td>ETSAB without recognition</td>
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<tr>
<td>COPAC - Documentation Centre for Architectural Projects of Catalonia</td>
<td>Félix Solaguren-Beascoa</td>
<td>PA</td>
<td>without recognition</td>
<td>No</td>
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<tr>
<td>REARQ - Rehabilitation and Architectural Restoration</td>
<td>Pere Joan Ravetllat Mira</td>
<td>PA</td>
<td>without recognition</td>
<td>No</td>
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Research Activities Launched in 2019

<table>
<thead>
<tr>
<th>Title</th>
<th>Amount</th>
<th>Principal Investigator</th>
<th>Financing entity/client</th>
<th>Duration</th>
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<tbody>
<tr>
<td>Design of a system of filtering and photocatalytic slats for ventilation air sanitation in buildings. Systems suitable for incorporation in various double-skin facade types (2018-LLAV00011)</td>
<td>20,000 €</td>
<td>Cristina Pardal March</td>
<td>AGAUR</td>
<td>1 year</td>
</tr>
<tr>
<td>MACONCRET (2018-LLAV00020)</td>
<td>20,000 €</td>
<td>Alberto Peñín Liobell</td>
<td>AGAUR</td>
<td>1 year</td>
</tr>
<tr>
<td>Socio-spatial indicators to improve the housing stock in vulnerable areas. Criteria for action in cases of the Metropolitan Areas of Barcelona and Bilbao (RTI2017-101362-B-I00)</td>
<td>108,900 €</td>
<td>María Pilar García Almirall</td>
<td>Spanish State Research Agency</td>
<td>3 years</td>
</tr>
<tr>
<td>A CANON of Theatre Technical History (2019-1-BE02-KA203-060354)</td>
<td>45,429 €</td>
<td>Antoni Ramon Graells</td>
<td>Strategic Partnership. Project from the ERASMUS+ Program</td>
<td>36 months</td>
</tr>
<tr>
<td>Provision for study from Olot Public Library</td>
<td>5,000 €</td>
<td>Joan Curís Vilà</td>
<td>Olot Town Council</td>
<td></td>
</tr>
<tr>
<td>Study, drawing up and design of a sports centre for the town of La Pobla de Claramunt</td>
<td>3,000 €</td>
<td>Joan Curós Vilà</td>
<td>La Pobla de Claramunt Town Council</td>
<td></td>
</tr>
<tr>
<td>Cataloguing, restoration and digitalisation of the patrimonial fund of the Gaudí Chair and the ETSAB</td>
<td>24,000 €</td>
<td>Juan José Lahuerta</td>
<td>Government of Catalonia. Dept. of Culture</td>
<td></td>
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<tr>
<td>The railway corridor as a functional subsystem for metropolitan social and environmental rebalancing</td>
<td>11,500 €</td>
<td>Joan Moreno Sanz</td>
<td>BBVA Foundation</td>
<td></td>
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<tr>
<td>Collaboration agreement UPC-URL-COAC</td>
<td>0 €</td>
<td>Ernest Redondo Domínguez</td>
<td>Universitat Ramon Llull Foundation</td>
<td></td>
</tr>
<tr>
<td>Collaboration agreement UPC-CCCB-URL</td>
<td>0 €</td>
<td>Ernest Redondo Domínguez</td>
<td>Universitat Ramon Llull Foundation</td>
<td></td>
</tr>
<tr>
<td>Study of proposals for the coast, in accordance with the delimitation of the ZMT (Land Maritime Zone)</td>
<td>14,890 €</td>
<td>Maria Rubert de Ventos</td>
<td>Barcelona Regional Agency</td>
<td></td>
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<tr>
<td>Research work leading to a Master’s dissertation with the purpose of documenting contemporary experiences in collective housing</td>
<td>9,870 €</td>
<td>ETSAB Direction</td>
<td>Builders and Developers Association</td>
<td></td>
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</tbody>
</table>
5. Contract for services between the Fundación ICO and Barcelona Tech for the Design of the Ideas Exhibition on Mediterranean houses at the ICO Museum, within the program of activities in the arts department for 2019

6. Sponsor for research related to "Domotic Systems applied to Residential Projects"

7. Contract for services for the curation of the Ideas Exhibition on Mediterranean houses in the ICO Museum, within the program of activities in the arts department for 2019

8. Study of the criteria and suitable solutions for interventions on the listed building Can Armengol, in Palma de Mallorca, in accordance with safety and habitability requirements applicable for use as housing

9. Report and analysis of the construction options for new health facilities, in the area of the old tuberculosis clinic and the area of the Misericordia Chapel.

10. Barcelona Ecotech-mobility house: studio for architectural and urban planning projects on the future of the Seat-Mobility house in Metropolitan Barcelona

11. Agreement regulating sponsorship for the events for LUB 50 years: Urbanism and Cities, in perspective

12. Contract for technical support in the determination of the valuation of the expropriation of land of the "Sant Joan mountain"

13. Survey with laser scanner of the Plaça de Ramon Berenguer el Gran

14. Sponsorship agreement regulating sponsorship for the events for LUB 50 years: Urbanism and Cities, in perspective

15. Preliminary project for the urbanisation of the Calle Mitre and Calle Alayme, as well as the layout for their extension between Calle Mathus Hoyos and Calle General Paz/ Motorway San Juan – Mendoza

16. Drawing up of Provisional Plan for Tracks in the towns of Maipú, Guaymallén, Ciudad de Mendoza, Godoy Cruz, Las Heras and Luján de Cuyo

17. Contract regulating sponsorship for the events for LUB 50 years: Urbanism and Cities, in perspective

18. Drawing up of the basic and final design of the works to refurbish the interior of the new Vilaweb offices in Barcelona

19. Drawing up of a report on the evaluation of the impact of the new proposed regulations for urgent measures to improve access to housing, which will replace the DLL 5/2019

20. Drawing up of a strategic plan for research into new teaching spaces

21. Contract for technical support for the updated valuation of the building in a qualified plot as a facility in the “Special plan for the layout and the Specification of uses of the 7@ facilities and layout of the 22@T1 land of the block Ca l’Uranyol of the UA-1 of the PERI of the Audio-visual Campus”

22. Technical assistance for the modelling of the land and urban planning measures against the effects of climate change (mitigation and defence)

23. Contract for collaboration in research into the architecture of Josep Maria Jujol in the province of Tarragona. Within the China program: "The Belt and road initiative"

24. Urban planning report on the Raval North health centre, Calle Ferlandina, 10

25. Project on lighting for schools Llum Barcelona 2020

26. R+D Contract for research into the hyperboloidal bells of the Sagrada Família's facade of the Birth resulting in the fusion of three prototypes of bells

27. Project management services for the works included in the project for the restoration of the farmhouse at the monumental site of Aiguafreda de Dalt

28. Study of a Local Archive in El Bages in the Historical Centre of Manresa

29. Evaluation of the urban planning impact of the implementation of a new cultural space at the Port of Barcelona and considerations regarding alternative locations

30. Activity for the continuity of the White Chair from 1999 to 2018

31. Study and creation of the map applicable to the updating of the basic values of public space occupation in Barcelona

32. R+D projects consisting of the exhaustive geometric, historical and archeological documentation of the existing constructions at the Bellesguard tower by Antoni Gaudí

33. Tasks of urban planning analysis of the economic activity of the Bages region

34. Contract for technical support for the study with prediagnosis of the status of buildings in Carmel neighbourhood in Barcelona
INTERNATIONAL RELATIONS

456 MOBILITY

463 DEVELOPMENT COOPERATION ACTIONS

466 WORKSHOPS, CONFERENCES AND COURSES
Barcelona School of Architecture (ETSAB) organizes academic exchange programs for students and teachers with almost 90 schools from Europe, America, Asia, Africa and Oceania through programs such as Erasmus+, Sicue, UPC-China and other bilateral agreements between schools. More than a hundred students from ETSAB study in some of the best schools of architecture and landscape in the world annually. They follow supervised and recognised programs coordinated by the School teaching staff (mobility counsellors). At the same time, the School receives students from other institutions, whether visiting or from exchange programs, interested by the ETSAB teaching and the city that takes them under its wings. The educational community is, thus, enriched by the constant dialogue between the very diverse approaches, knowledge and sensibilities of schools of architecture of various traditions. These are the main indicators of the School’s mobility:

<table>
<thead>
<tr>
<th>Mobility</th>
<th>2018/19</th>
<th>2017/18</th>
<th>2016/17</th>
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<tbody>
<tr>
<td>Agreements</td>
<td>105</td>
<td>105</td>
<td>98</td>
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<tr>
<td>Countries</td>
<td>40</td>
<td>40</td>
<td>34</td>
</tr>
<tr>
<td>Outgoing Students</td>
<td>149</td>
<td>149</td>
<td>113</td>
</tr>
<tr>
<td>Erasmus – Internships</td>
<td>10</td>
<td>10</td>
<td>5</td>
</tr>
<tr>
<td>Incoming Students</td>
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<td>144</td>
<td>145</td>
</tr>
<tr>
<td>Visiting Staff</td>
<td>18</td>
<td>18</td>
<td>11</td>
</tr>
<tr>
<td>Teaching &amp; Research Staff Stays</td>
<td>35</td>
<td>38</td>
<td>16</td>
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</table>

Student Mobility for Studies (SMS) and Staff Mobility for Teaching (STA) during the 2018/19 session, by program, country, city and institution:

**ERASMUS+ KA-103 SMS**

**Germany**
- **BERLIN**
  - Fakultät VI - Institut für Architektur/institut für Landschaftsarchitektur und Umweltplanung - Technische Universität Berlin
  - SMS and STA

**Slovenia**
- **LIJUBLJANA**
  - Fakulteta za arhitekturo - Univerza V Ljubljani
  - SMS and STA

**Finland**
- **Helsinki**
  - Taiteiden ja suunnittelun korkeakoulu - Aalto-Yliopisto
  - SMS and STA

**France**
- **LILLE**
  - École Nationale Supérieure d’Architecture et de Paysage de Lille
  - SMS and STA

**LYON**
- École Nationale Supérieure d’Architecture de Lyon
  - SMS and STA

**PARIS**
- École Nationale Supérieure d’Architecture de Paris la Villette
  - SMS and STA

**MILANO**
- Scuola di Architettura urbanistica ingegneria della costruzioni - Politecnico di Milano
  - SMS and STA

**VERSAILES**
- École Nationale Supérieure d’Architecture de Versailles
  - SMS and STA

**GREECE**
- **ATHINA**
  - Scholi Architektonon - Ethniko Metsovio Polytechnio
  - SMS and STA

**HUNGARY**
- **BUDAPEST**
  - Építészügyi Kar - Budapesti Műszaki Egyetem
  - SMS and STA

**ITALY**
- **FERRARA**
  - Facoltà di Architettura - Università degli Studi di Ferrara
  - SMS and STA

**FIENZA**
- Facoltà di Architettura - Università degli Studi di Firenze
  - SMS and STA

**MILANO**
- Scuola di Architettura urbanistica ingegneria della costruzioni - Politecnico di Milano
  - SMS and STA

**VERSALIES**
- École Nationale Supérieure d’Architecture de Versailles
  - SMS and STA

**IRELAND**
- **DUBLIN**
  - School of Architecture, Planning and Environmental Policy - University College Dublin
  - SMS and STA

**ITALY**
- **FERRARA**
  - Facoltà di Architettura - Università degli Studi di Ferrara
  - SMS and STA

**FIENZA**
- Facoltà di Architettura - Università degli Studi di Firenze
  - SMS and STA

**MILANO**
- Scuola di Architettura urbanistica ingegneria della costruzioni - Politecnico di Milano
  - SMS and STA

**VERSAILES**
- École Nationale Supérieure d’Architecture de Versailles
  - SMS and STA
Students mobility, session 2018/2019
<table>
<thead>
<tr>
<th>Country</th>
<th>Institution</th>
</tr>
</thead>
<tbody>
<tr>
<td>Austria</td>
<td>GRAZ Fakultät für Architektur - Technische Universität Graz STA</td>
</tr>
<tr>
<td></td>
<td>BrAGA Universidade do Minho STA</td>
</tr>
<tr>
<td></td>
<td>UNITED KINGDOM</td>
</tr>
<tr>
<td></td>
<td>CARDIFF Welsh School of Architecture - Cardiff University STA</td>
</tr>
<tr>
<td></td>
<td>TURKEY Ankara Güzeldar Yasar University of Istanbul STA</td>
</tr>
<tr>
<td></td>
<td>France CHAMPS-SUR-MARNE École Nationale Supérieure d'Architecture de la ville et des territoires de Marne la Vallée STA</td>
</tr>
<tr>
<td></td>
<td>ITALY AQUILA Accademia di Belle Arti di l’Aquila (Scuola di Scenografia) STA</td>
</tr>
<tr>
<td></td>
<td>GERMANY HANNOVER Fakultät für Architektur und Landschaft - Leibniz Universität Hannover SMS and STA</td>
</tr>
<tr>
<td></td>
<td>FRANCE VERSAILLES École Nationale Supérieure du Paysage de Versailles SMS and STA</td>
</tr>
<tr>
<td></td>
<td>HOLLAND AMSTERDAM Academie van Bouwkunst Amsterdam - Amsterdamse Hogeschool voor Kunsten SMS and STA</td>
</tr>
<tr>
<td></td>
<td>MALTA VALLETTA University of Malta - Faculty for the Built Environment STA</td>
</tr>
<tr>
<td></td>
<td>UNITED KINGDOM</td>
</tr>
<tr>
<td></td>
<td>EDINBURGH Edinburgh College of Art - University of Edinburgh SMS and STA</td>
</tr>
<tr>
<td></td>
<td>PORTO Mackintosh School of Architecture - Glasgow School of Art SMS and STA</td>
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<td></td>
<td>UNITED KINGDOM</td>
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<tr>
<td></td>
<td>CARDIFF Welsh School of Architecture - Cardiff University STA</td>
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<td>FRANCE CHAMPS-SUR-MARNE École Nationale Supérieure d'Architecture de la ville et des territoires de Marne la Vallée STA</td>
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<td>GERMANY HANNOVER Fakultät für Architektur und Landschaft - Leibniz Universität Hannover SMS and STA</td>
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<td>FRANCE VERSAILLES École Nationale Supérieure du Paysage de Versailles SMS and STA</td>
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<td>HOLLAND AMSTERDAM Academie van Bouwkunst Amsterdam - Amsterdamse Hogeschool voor Kunsten SMS and STA</td>
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<td>EDINBURGH Edinburgh College of Art - University of Edinburgh SMS and STA</td>
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**Mobility of Students and Teaching & Research Staff**

- **Argentina**: BUENOS AIRES Facultad de Arquitectura, Diseño y Urbanismo - Universidad de Buenos Aires SMS
- **Rosario**: Facultad de Arquitectura, Planeamiento y Diseño - Universidad Nacional de Rosario SMS
- **Brazil**: PORTO ALEGRE Uniritter - Centro Universitário Ritter Dos Reis SMS
- **Uruguay**: MORENO Facultad de Arquitectura y Urbanismo - Pontificia Universidad Católica de Valparaíso SMS
- **Canada**: UPC-Canada Canada
- **Montreal**: Faculté d’Aménagement - Université de Montréal SMS
- **U.S.A.**: UPC-USA U.S.A.
- **Austria**: Vienna Technische Universität SMS and STA
Projects submitted to the 2018 and 2019 calls and sponsored by Barcelona Tech’s Development Cooperation Centre:

2018

Sonríe y aprende
TEAMS: Joan Moreno Sanz, Javier Comadran, Pere Forner
LOCALIZATION: Sabana Yegua and other small neighbouring communities (Altagracia and Km.13). These towns are located in the province of Azua, southeast of the Dominican Republic.
COUNTERPART’S NAME: Parish of Sagrada Familia

Tenercia Fase Ampliació del C.E.M
TEAM: Roger Sauquet Llonch, Sara Pérez, Jordi Gomà
COUNTERPART’S NAME: Amics del Senegal al Bages (ASEB)

Proyecto de rehabilitación del espacio público y del patrimonio construido en tierra en el Khorbat, Morocco
TEAM: Andrea Llull, Mercé Mullerat, Adrián Álvarez, Laura Duñó Andrade, José Luis Oyón Bañolas, Adrián Álvarez, Laura Duñó Andrade,¿
LOCALIZATION: Ksar el Khorbat, Tinejdad, Errachidia, Morocco.
COUNTERPART’S NAME: Terrachidia

Enfortiment de les capacitats de les cooperatives de dones i de la població de Sawla a través de la bioconstrucció, capacitació i eines TIC
TEAM: Isidre Vega
Rebeca López, María Font, Andrea Llanas
LOCALIZATION Missirah is a village in the district of Toubacouta, in the region of Fatyk (Senegal). It is located at the centre of the Delta du Saloum Biosphere Reserve, Senegal
COUNTERPART’S NAME Dentistas Sob Ruedas (DSR)

Projecte de reestructuració i rehabilitació de l’Hospital Públic d’Ambanja
TEAM Laia Haurie, Ana María Sánchez, Antonio Planas, Mariana Palumbo, María Pilar Giraldo
LOCALIZATION Ambanja, Madagascar
COUNTERPART’S NAME Dada BE Association

Fomento de la economía circular a partir del aprovechamiento de los subproductos agrícolas en el marco del postconflicto en Colombia
TEAM Jordi Morató Farreras, Ivan Felipe Murillo, Brent Villanueva, Ángel Gallegos
LOCALIZATION El Castillo, department of Meta, Colombia
COUNTERPART’S NAME Asociación para la Transformación de Productos Agrícolas

Lemongrass oil based product development
TEAM Lucas van Wunnik, Mar Izquierdo López
LOCALIZATION Main Campus: Amritapuri Campus, Amritapuri. Clappana, Kerala, India
COUNTERPART’S NAME Amrita Vishwa Vidyapeetham

Disseny i construcció d’un Centre Comunitari en el poblat de Dewgain (Jharkhand, India) amb materials locals i de manera participativa en zones d’elevat risc sísmic. El cas de Kermanshah, Iran
TEAM Oriol Pons, Maria del Mar Casanovas, Alberto de la Fuente, Seyed Mohamma
LOCALIZATION Kermanshah, Iran
COUNTERPART’S NAME Islamic Azad University of Teheran (Iran)

Estudi participatiu per a intervencions estratègiques al barri G. Dimitrov per a la millora del sistema/xarxa d’espais collectius
TEAM Estansilao Roca Blanch, M. Arwen Prendergast, Inés Aquilué, Judit Liibrés, Francisco Balen, Miquel Martí, Laura Virginia de Vargas, Saray Bosch
LOCALIZATION Maputo (Mp). Neighbourhood: George Dimitrov (GD) and adjacent neighbourhoods, Mozambique-Spain
COUNTERPART’S NAME Centro de Estudios para o Desenvolvimento do Hábitat de la Facultad de Arquitectura e Planeamento Fisico - Universidade Eduardo Mondlane

Diseño de trinchos para la estabilización de taludes y pasarelas elevadas para peatones y bicicletas
TEAM Allen Bateman
LOCALIZATION Pereira, Colombia
COUNTERPART’S NAME Crisol

2019

Enfortiment de capacitats agro-productives de comunitats rurals a Cochabamba i rehabilitació sostenible funcional del canal de reg Pirigallo i el seu entorn. Pla participatiu de desenvolupament integral amb la UMSS i la coop. de dones indígenes construïdors
TEAM Carles Llop, Irina Berdonces
LOCALIZATION Capinota, department of Cochabamba, Bolivia
COUNTERPART’S NAME Central Regional of Regantes Capinota i Universidad Mayor de San Simon

Diagnosi tècnica del Parc històric de Chinchero (Per)
TEAM Karin Elke Hofert, Alba Almansa, Dayra Grissela Toaquiza
LOCALIZATION Chinchero, department of Urubamba, region of Cusco, Peru
COUNTERPART’S NAME Ongd Ali Karia

Projecte d’enfortiment de la comunitat refugiada a l’assentament informal situat a l’exterior del centre de detenció de Moria a través d’una millora i adequació de les infraestructures existents
TEAM Isabel Castelhera, Ferran Montesinos, Omar González
LOCALIZATION Lesbos is a Greek island part of a big ensemble of islands close to the Turkish coastline (in the Aegean Sea). Its capital is Mitilene. Jointly with some other small islands it constitutes the periphery of Lesbos, Greece
COUNTERPART’S NAME Movement on the Ground

Laboratorio Internacional de Arquitectura Colaborativa: Step on Step (Fase 3)
TEAM Karin Elke Hofert, Judit Taberna
LOCALIZATION Medina de Chauen, Morocco
COUNTERPART’S NAME Chefchaouene municipality

Claus per a la detecció i diagnosi de les comunitats d’alta vulnerabilitat sòcio-residencia
TEAM Sara Vima, Pere Joan Ravetllat, Pilar García Almirall, Gássima Corrêao
LOCALIZATION City of Barcelona. Raval neighbourhood. Specific area: Raval south, Spain

Projecte SEC
TEAM Estansilao Roca Blanch, M. Arwen Prendergast, Maria Gabriela Feitosa, Miquel Martí, Joan Moreno
LOCALIZATION Barri George Dimitrov, Malhazine, Bagamoyo i 25 de Junha B; Distrito Municipal 3 Kamubukwana; Maputo, Moçambic
COUNTERPART’S NAME Conselho Municipal de Maputo; Faculdade de Arquitectura e Planeamento Fisico i el seu Centro de Estudos para o Desenvolvimento do Habitat de la Universidade Eduardo Mondlane

Proposta d’educació i sensibilització sobre projectes de desenvolupament urbà a ciutats subsharaiàs: Inici, evolució i estratègies
TEAM Inés Aquilué Junyent, Estansilao Roca Blanch, Miquel Martí

Casasovas, M. Arwen Prendergast Gumbao
LOCALIZATION The action will take place in Barcelona, although the debate will revolve around sub-Saharan cities, specially Maputo (Mozambique), Mozambique-Spain
COUNTERPART’S NAME Maputo municipal council

Programa d’Atenció a la Ciutadania Arquitectes de Càpitalear
TEAM Ibon Bilbao España
LOCALIZATION Poblenc nou neighbourhood in the city of, Spain

Maquetació i elaboració de la publicació del material didàctic generat al laboratori internacional d’arquitectura collaborative de Chauen
TEAM Judit Taberna Torres, Karin Elke Hofert
LOCALIZATION Medina de Chauen, Morocco-Spain
COUNTERPART’S NAME Chefchaouene Municipality
During session 2018-19 several academic activities were organized together with other institutions, as shown hereinafter:

**Deconstructing the Architecture, Constructing the Winelandscape**
ETSAB (Spain) + Tsinghua University (China)
Barcelona, Spain
Miquel Vidal and Marina Cervera
12-17 November 2018

**MSA Barcelona Kurzenwürfe: Waterfront vs Riverside**
ETSAB (Spain) + Münster School of Architecture (Germany)
Barcelona, Spain
Anna Ramos
19-23 Nov 2018

**Barcelona Abroad Program. University of Virginia**
ETSAB (Spain) + University of Virginia (U.S.A.)
Barcelona, Spain
Manuel Bailo
3 September - 3 December 2018

**Sounds of Istanbul**
ETSAB (Spain) + Istanbul Bahçeşehir University (Turkey)
Istanbul, Turkey
Judit Taberna + Karin Hofert
21 - 25 January 2019

**Urbanism, Architecture & Gender**
ETSAB (Spain) + Prof. Lidewij Tummers (Leibniz Universität Hannover) + Col·lectiu Punt 6
Barcelona, Spain
Zaida Muxí
3 - 8 March 2019

**The Paper House**
ETSAB (Spain) + WSA Welsh School of Architecture - Cardiff University (Wales, UK)
Barcelona, Spain
Reljia Ferusic + Carles Sala
25 March - 12 April 2019

**Tongji International Construction Festival 2019**
CAUP _ Tongji University (China)
Shanghai, China
Carles Sala
3-9 June 2019

**UBC Vancouver Barcelona. Planning Studio**
University of British Columbia (Vancouver, Canada)
Barcelona, Spain
Jordi Honey-Roses + Zaida Muxí
3-14 June 2019

**Barricada a Cadabarri**
ETSAB (Spain)
Barcelona, Spain
Arquitectos de Cabecera
25 June – 5 July 2019

**Campus Ultzama**
Fundación Arquitectura y Sociedad
Zenotz, Pamplona
Francisco Mangado, Carlos Pereda, Ignacio Olite, Eduardo Souto de Moura, Camilo Rebelo, Joao Pedro Serôdio
30 June – 6 July 2019

**RCR LAB-A 2019 XII International Workshop of Architecture and Landscape**
RCR Aranda Pigem Vilalta Arquitectes - RCR Bunka Private Foundation
Olot, Spain
Jaime J. Ferrer + Arrate Abaigar
15 July - 2 August 2019

**BCN Step by Step. Scanning Barcelona**
ETSAB (Spain)
Barcelona, Spain
Karin Hofert
15-19 July 2019

**2019 Laboratory International of Collaborative Architecture - Medina de Chaouen**
ETSAB (Spain) + Base A (Victoria TOUS) + ONGD Al Karia + UEMF Université Euromediterrané de Fès (Morocco)
Medina Chaouen (Morocco)
Karin Hofert + Judit Taberna
22-31 July 2019

School of Architecture, Universidad Mayor (Santiago de Chile)
Santiago de Chile, Chile
Tiziano Schürch
7 - 16 August 2019

**2019 EMiLA Summer School. Dirty Ecologies**
EMiLA _ LUH Hannover (Germany)
Hannover / Misburg (Germany)
Luis Maldonado
23-30 August 2019

**Summer School KU Leuven. Productive Landscapes**
Universidade do Minho (Portugal)
Riba d’Ave i Guimarães, Portugal
Eulàlia Gómez
2 - 12 de September 2019
During session 2019-20 several academic activities were organized together with other institutions, as shown hereinafter:

**Wildfirescapes.**  
*Resilience Through Landscape Architecture*  
ETSAB (Spain) + Pau Costa Foundation + GRAF + Diputació de Barcelona +AFE  
Barcelona, Spain  
Enric Battle + Marc Castelino + Pepa Morán  
3-8 November 2019

**Habitar el presente**  
ETSAB (Spain) + FADU UdelaR (Uruguay)  
Barcelona, Spain  
Zaida Muxí + Daniela Arias + Roger Casanovas  
4-8 November 2019

**Urbanism, Architecture & Gender**  
ETSAB (Spain) + FADU UdelaR (Uruguay)  
Barcelona, Spain  
Zaida Muxí + Daniela Arias + Col·lectiu Punt 6  
4-8 November 2019

**Explaining Cerdanyola’s Identity Following The River**  
ETSAB (Spain) + Tsinghua University (China)  
Barcelona, Spain  
Miquel Vidal + Marina Cervera  
11-15 November 2019

**Transformation vs Demolition**  
ETSAB (Spain) + Münster School of Architecture (Germany)  
Barcelona, Spain  
Martin Weischer + Anna Ramos  
25-29 November 2019

**Istanbul Bau Winter Workshop**  
ETSAB (Spain) + BAU Bahcesehir University (Turkey)  
Istanbul, Turkey  
Karin Hofert + Ümran Topçu  
3-7 February 2020

**Batzacs Dry Stream**  
ETSAB (Spain) + École Nationale Supérieure du Paysage Versailles (France)  
Barcelona, Spain + Versailles, France  
Enric Battle + Karin Helms  
4-7 February 2020

**Llum BCN Poblenou**  
ETSAB (Spain)  
Barcelona, Spain  
Carles Sala + Relja Ferusic  
14 October-17 February 2020

**IE- International Workshop of Architecture and Landscape**  
RCR Aranda Pigem Vilalta Arquitectes - RCR BUNKA Private Foundation  
Online  
RCR Architects  
13-31 July 2020

**Chile Waum 2020**  
University Mayor of Santiago de Chile School of Architecture  
Santiago de Chile, Chile  
Eulalia Gómez  
23 August - 7 September 2020

**Campus Ultzama 2020**  
Fundación Arquitectura y Sociedad  
Zenotz, Pamplona  
Francisca Mangado + Eduardo Souto de Moura  
14-20 September 2020
Agreements Processed
Academic Years 2018-20

Framework agreement between the UPC and the APCE

Framework agreement with the Association of Developers and Builders of Catalonia (Associació de Promotors de Catalunya) delimiting and coordinating the action of the company and the UPC (Barcelona Tech) in training activities, scientific research into technological development and the technology transfer developed by the University, through specific agreements within the departments, institutes and university centres.

Agreement between the UPC, HNA and HNA Foundation

Agreement with Hermandad Nacional de Arquitectos (HNA) and the HNA Foundation aiming to supplement the Degree studies with activities that are able to provide the student with different knowledge, other than that imparted in the classrooms. Specifically, in this academic year, these activities consist of organising "on-site" visits, in an attempt to respond to the concerns of a large part of the students. This extra-curricular initiative, known as HNA Site Visits, aims to fund both the journey and the insurance corresponding to teachers’ proposals that justify the link between the construction site to visit and the content of the courses they give.

In addition, the agreement introduces the students to the HNA Connect Plan, free access to online training courses, the possibility of accessing the HNA products with the advantages of the architects who have already graduated, a year’s digital subscription to El Croquis, as well as priority access to events and conferences promoted by HNA and participation in prize draws.

Agreement between the UPC and ASEMAS

Agreement with ASEMAS (mutual insurance and reinsurance company with a fixed premium for architects) in which Barcelona School of Architecture actively participates in the training activities within the scope of professional ethics and professional risks and, in particular, the organisation of an annual conference on professional public...
Framework agreement between the UPC and HISPALYT

Framework agreement with the purpose of delimiting and coordinating the action of the company HISPALYT and the UPC (Barcelona Tech) in training activities, scientific research into technological development and the technology transfer developed by the University, through specific agreements within the departments, institutes and university centres.

Specific agreement between the UPC and Foro Cerámico HISPALYT

Framework agreement that defines Barcelona School of Architecture’s participation in the following activities organised by the Foro Universitario Cerámico Hispalyt:

1. Participation of Barcelona School of Architecture (ETSAB) students in the Forum for University, Architecture, Engineering and Society, organised by the Foro Universitario.
2. Participation of ETSAB students in the Hispalyt Project Competition structured in two stages: locally, with a scope within ETSAB and nationally, bringing together the winners from all the Spanish schools inscribed in the Foro Cerámico.
3. Final Degree Thesis/Master’s Dissertation Award for work using exposed ceramics in the enclosure or that have developed research work related to technology based on the use of ceramic bricks.
4. Lessons learned, presentations given by prestigious ETSAB professors aimed at providing information on construction works of interest using exposed brickwork, transmitting their vision and experience in the use of this material.
5. Factory visits, an activity organised by the Ceramic Forum to help ETSAB students learn about the manufacturing process of ceramic materials, complementing the knowledge acquired in class on its technical properties and discovering their creative potential.

Specific agreement for collaboration between the UPC and USFQ (Universidad San Francisco De Quito)

Agreement regulating the Summer Workshop promoted by the School of Architecture and Interior Design of the Universidad San Francisco in Quito (USFQ) and organised between ETSAB and USFQ, in accordance with the academic and social relevance based on the strategic objectives of both USFQ and ETSAB.

It is a summer program for USFQ undergraduate students and ETSAB degree students with the goal of academic exchange between learners and teachers at both schools through a workshop of projects aimed at the “project for public space”.

Agreement between the UPC and the Design Museum through Barcelona Institute of Culture

12 JUNE 2018 Collaboration agreement between ETSAB – UPC and the Design Museum (MDB) through the Barcelona Institute of Culture (ICUP) with the aim of creating a generic framework between them in the field of design, creativity and innovation. Through this the MDB can participate and become the reference team for different educational and promotional activities, joint research projects and collaborations with teachers and students related to the University Master’s in Advanced Design Studies—Barcelona (MBDesign), to favour the research and dissemination of design at international level.

The activities within the scope of the collaboration include: Organising and holding courses, seminars, meetings or conferences; advocating collaboration between both parties for greater depth in training, in the development of studies and research, within the specific scope of the MDB; promoting the practice of theoretical studies in the professional reality to consolidate the students’ education; advocating collaboration in the field of teaching through activities that can be developed by teachers and professionals of both institutions, among others.

Agreement between the UPC and the Company LAMP

2 JULY 2018 Contract regulating sponsorship for projects on “Residential Lighting Systems” in which the company LAMP is named by the UPC as a sponsor, with the economic contribution of €6,000 in two annual payments.

Agreement between the UPC and Barcelona Metropolitan Area (AMB)

25 JULY 2018 Agreement regulating the stable framework for collaboration between the AMB and Barcelona Tech (UPC) to support the workshops and studies given by Barcelona School of Architecture (ETSAB), to ensure the students receive a high level of training, that responds to the current social needs, within the professional scope of urban projects.

In line with the concurrent interests of the two entities regarding the educational and professional setting in the field of management, organisation and construction of the metropolitan territory and the development of the studies and workshops given by ETSAB, the two entities may collaborate in activities such as: development of workshops and studies given by ETSAB where
the scope of the work is the metropolitan territory; creation of publications, exhibitions and informational material compiling the results of the workshops and courses covered by this agreement; transfer of the knowledge that stems from the educational and professional experience on the subject of management, organisation and construction of the territory; participation and assistance of AMB technical staff in the workshops and courses; dissemination of the collaboration established and its results.

Agreement between the UPC and the Asociación Española de Paisajistas (AEP)

19 October 2018

This agreement facilitates collaborative action in which the University Master’s in Landscape (MBLlandArch) becomes a corporate partner of the Spanish Association of Landscape Professionals (AEP). The main objective is to establish mutual support between the two institutions.

Specific agreement between the UPC and Barcelona Regional

19 October 2018

Specific agreement arising from a framework agreement for the development of related activities, through which BR and ETSAB collaborate, within the framework of the 25th anniversary of the constitution of Barcelona Regional, and the reflection on the future ring roads around Barcelona, as well as analysing the infrastructure and its problems linked to congestion and environmental impact. Specifically, the two institutions cooperate in the activities that make up the Hackathon, held on the 19 to 21 October, which are a basis for the different analyses and studies carried out during the whole 2018-19 academic year.

Within the framework of the Open City Biennial of Thought, one of these activities will be ‘Des-cobrir les Rondes’, in collaboration with six schools of architecture, posing questions and challenges regarding the infrastructure and its territory.

Agreement between the UPC and the European University in Egypt

27 November 2018

The main purpose for the cooperation agreement between the Universitat Politècnica de Catalunya (UPC) and the European University in Egypt is to work together to offer UPC academic programs at EUE, thus contributing to the group of international universities that are offering trans-national education by opening campuses and offering degree programs of their faculties in the EUE in partnership with the UPC, start providing taught courses (expected to be 2019) and to grant academic undergraduate and postgraduate degrees from Barcelona School of Architecture (ETSAB) with its registered adress in Barcelona.

Agreement between the UPC and Port de La Selva Town Council

1 April 2019

Contract regulating a subsidy granted by the Town Council of Port de la Selva that allows the exhibition and dissemination of the work by the 2nd year of the Degree in Architecture Studies of the course Projects I – II: ‘Shape, place and construction’ basically focused on the relationship between the project and the site in both urban and landscape settings.

Agreement between the UPC and Fundació BIT Habitat

3 June 2019

Business collaboration agreement for activities of general interest between the Fundació BIT Habitat, an entity that promotes urban innovation in Barcelona in response to the new challenges the city is facing, and Barcelona School of Architecture. Its purpose is to award two grants for two Master’s Dissertations in the specialisations of ‘Urban and Architectural Valuation and Management’ (on the subject of contemporary reuse of obsolete industrial sites in Europe) and ‘Urban Planning’ (on the dissemination of urban data through mapping and geoprocessing systems). To award the two grants a competition with conditions regulated in the agreement itself will be established.

Agreement between the UPC and Fundació Teatre Lliure – Barcelona Public Theatre

30 June 2019

Agreement through which three ETSAB students are able to participate in the 2019 International Workshop organised by Teatre Lliure, students chosen by the professor responsible for the course ‘Introduction to scenography’ from the students registered with the best record and a high level of English. The participants, students and professors from different artistic disciplines (architecture, scenography and music) will carry out a creative, interactive process with the theatre and social participants from the city.
Researching at Barcelona School of Architecture

One of the current Management Team’s objectives is to promote and incentivise actions to guarantee synchronisation of Barcelona School of Architecture (ETSAB) with reality, thus providing continuity to this institution’s own path, characterised throughout its history by knowing how to combine strictly academic matters with a practical application very closely linked to the construction of Barcelona as a city and metropolis.

As a 21st century university, in addition to being an academic institution that shares knowledge through its teaching activity, Barcelona School of Architecture must also be able to create this knowledge, encouraging its academics’ research. Contemporary architectural research, far from limiting itself to environments derived from the meaning in Spanish of the verb ‘investigar’ (to investigate or to research), prefers to turn to the assertions implicit in its translation into English and contained in the root of the word ‘research’. While in Spanish the meaning of ‘investigar’ is conditioned by the typical connotations of activities based on scientific methods that attempt to analyse, ascertain, find out and reveal facts to use them logically to build a story and present it for judgement by whomever it may concern, the English word composed of a prefix and a verb (re-search) lead us to search again, to doubt what is pre-established and break through the limits of knowledge, in short, to exceed reality by applying a new way of looking that, instead of limiting ourselves to seeing things, discovers new relationships between them.

In light of this double meaning of the term and with regard to Christopher Frayling’s presentation on Research in Art and Design at the request of the Royal College of Art in 1994, architectural research is today understood through three categories:

Research into: This is the most canonic research, closest to that derived from the very meaning of ‘investigación’ in the Spanish language. It is an activity that entails reflection and analysis inherent in academic fields that go into greater depth into theoretical and historical aspects of architectural practice and projects using scientific methods. Its function is to study the past using transhistorical optics that enable new references to be generated.

Research through: This is instrumental and inductive research derived from the practice of the architectural project itself, either from the classroom or the professional practice. Its function is to discover methods and strategies for re-interpreting reality through the architectural project.

Research for: This is applied research that seeks specific solutions based on new needs, making use of the technological resources available at any time. Its function is to design prototypes and systems that guarantee more sustainable constructive solutions that make it possible to reduce the ecological footprint and energy cost of construction processes, and minimise the periods of on-site building by industrialising construction.

Barcelona School of Architecture Industrial Dissertation

While the first two types of research are common practice at Barcelona School of Architecture, it must be acknowledged that the third, research for, still needs to be implemented, providing platforms and instruments that would boost the School’s relationship with the industrial sector and other parties involved in the promotion and construction of architecture.

In other areas of knowledge of Barcelona Tech (UPC) this type of technological transfer is usually managed by the figure of the Industrial Doctorate, which covers all doctoral thesis developed within a company. The aspects that regulate this type of doctorate are set out in RD 99/2011 and the objectives of this new academic major include: promoting research into business structure, making it possible for industry to participate in the doctoral program, incentivising knowledge transfer between the University and its social surroundings and favouring labour insertion of young researchers in the participating businesses.

The Deputy Directorate of Infrastructure and Heritage studied how to translate this figure that works so well in the area of engineering to the specific area of architecture. This reformulation aimed to redefine the requirement of the Industrial Doctorate that was the most complicated...
to achieve in the architecture sector: that which made it compulsory for an external entity to contract the doctoral students during the four years stipulated for their Thesis.

In light of this economic and scheduling setback, the idea was to appeal to a lesser academic figure that would make it possible to adjust both aspects proportionally. In the Master’s Dissertation we found the ideal framework for considering the ETSAB Industrial Dissertation.

With this new academic major we understand that this research, developed as the endpoint for the University Master’s studies, which explores and investigates a specific topic posed either by the company or private industry, or by the public administration. Like the Industrial Doctorate, the University—in this case the ETSAB Management Team—assumes the following roles, summarised in the corresponding models of the Framework and Specific R&D Agreements between Barcelona Tech and the various external organisations that participate in this activity:

Select, compile and disseminate the study topics proposed by the various external organisations.

Process the candidate registrations.

Assign the most suitable teacher to tutor each of the studies accepted.

Appoint a joint committee made up of the study tutor, the Vice-dean of Infrastructure and Heritage, the Principal of the School and two representatives of the company in question, responsible for selecting the most suitable candidate for the subject and methods derived from the research.

Agree with the external organisations the selection procedure, the schedule and the monitoring stages of the work and the economic contribution that corresponds to the student and their tutor, as well as the necessary amount to cover the expenses arising from this activity to be paid by the University.

Monitor this work and undertake its dissemination.

APCE Industrial Dissertation Grant

The first opportunity that Barcelona School of Architecture has had to put this model to the test was in spring 2018, through our first meeting with the Social Commission of APCE (Association of Developers and Builders of Catalonia). After a period of negotiation where a variety of options were discussed to promote the goals and protocols, the consensus of the parties was set out in the Framework and Specific agreements between the APCE and Barcelona Tech signed in January 2019. These documents set out the first study topics: Housing and Flexibility. New forms of inhabiting contemporary housing. With this topic, we are not incentivising indexed research as Research for; this work is better suited within research defined as Research through. Nevertheless, in future awards of this grant, it will be possible to consider systems and prototypes that allow more sustainable construction solutions in the development of multi-family dwellings.

The teacher responsible for tutoring this research was professor Alberto Peñín, responsible at that time for coordinating the courses Projects III and IV of the Degree Studies, on the study of housing. Ten aspiring architects entered this competition and four of them were selected to move on to the final stage, which consisted of an interview at the APCE offices before two members of the Board, the Vice-dean of Infrastructure and Heritage and the study tutor. The student awarded the grant was from the Master’s Line Contemporary Project, Violeta García Sotos, who defended her academic work in the competition in October 2019 and presented it before the members of APCE at the conference Habitatge i Futur that took place at their head office on 23 October 2019 (https://apcebcn.cat/es/jornadas/la-vivienda-del-futuro-innovacion-en-la-edificacion/).

This type of work has a dual mission: the academic response and the useful response before the expectations of the associated company. Both goals must be complementary and should be proportional, so that the excessive development of one does not hinder the other. Violeta was convincing on both fronts and was able to use her examples and arguments to seduce an audience that was very satisfied with the results. This experience showed that this knowledge transfer between the University and society is both possible and necessary, again revalidating Barcelona School of Architecture.
as an influential entity among the organisations that ultimately decide on such relevant topics as “inhabiting” as, in addition to shaping us as individuals, they define us as citizens.

Violeta’s work posed significant reflections surrounding the problems of housing in the current context. Within this framework, she presents housing as the minimum guarantee that condition and determines the construction of the city, consequently, evidences that housing problems end up being urban problems. She therefore conceives the idea that an urban city is that which is based on a good residential fabric, understanding this quality as guaranteed when the residential type responds to the users’ various needs and when it is built with innovative construction systems, based on sustainable criteria. She denounces the use of types and structures that are already outdated, out of tune with the inhabitants and with contemporary ways of inhabiting.

The study questions this present and commits to a future. To avoid unrealistic hypotheses, she refers to the past, which enables her to be based on history to validate some contemporary examples that, developed as case studies, she uses to consider a set of proposals with two scopes:

The architectural: with types that are not only flexible but also versatile, making it possible for the inhabitant to adapt the home to their specific needs at any time during their life.

The urban: since each of these types responds to a residential fabric other than the built city, which responds to the contextual reality allowing it to be recycled and transformed.

Her discourse proposes a “multi-family dwelling” that, far from being limited to “the inhabiting machine”, becomes the engine that “builds the inhabitant” and the unit that conditions the material and social reality of the city that accommodates it.

Elena Fernández Salas
Associate Professor of the Department of Architectural Design, PA
Assistant Head of Facility Management and Heritage of the ETSAB

**Housing and Flexibility. New forms of inhabiting contemporary housing**

**AUTHOR** Violeta García Sotos

**WEB** https://upcommons.upc.edu/handle/2117/328259

Three versions of the new alternative housing design in three different densities, all following the same principles and methodology

Housing Development in Benidorm, Spain

Kangbashi New Area, Ordos, China

New Housing Development in Samara, Russia

The London Housing Crisis
Case I

Medium Density Housing: Great depth, low width and medium height

Case II

Low Density Housing: Low depth, medium width and low height
Companies with Agreements or Offers

Partnerships with employers

Number of internships offered to our students in the last reporting years:

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Taller Sau SLP
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Turull Sorensen Arquitectos SL
Windmill Structural Consultants SLP
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Fernando Agustí Domínguez
Albert Vitaller Arquitectura SLP
Ariadna Perich Arquitectura
Produccions SL
Arquitectura y Eficiencia Energetica
Bacardí i Cia SL
Rosa Brullet Coll
Busquets Galve SL
Click Arc Estudio de Arquitectura SLP
Cubic Estudi d’Enginyeria SL
Drei Mal Mehr, SL
Eulàlia Marquès Vidal
Ferran Pelegrina i Associats, SL
IDOM Consulting, Engineering, Architecture
Inés de Rivera Marinel·lo
Jorge Vidal Tomás (Vidal Tomás Arquitectura)
José Luis Pérez Albà
Labaula Arquitectes SCCL
Matters SCP
Negre Balsas, Mª Angeles
Opposite Arquitectes SLP
Pons-Julian, SLP
Prats Nadal, Eduard
Proega Enginyeria
Consultoría SLP
Rando Arquitectura SL
Sastre Civic
UNEN Servicios para la Arquitectura UP 080 SL
Vilà Renaud Arquitectura SLPU
Works Compañía Integral de Rehabilitaciones
2
3A3 CAT Projectes Eficients SL
3At arquitectura SCP
AAB arquitectes SLP
AB Paisatgistes SL
Activitats Arquitectòniques
Ajuntament de Sant Just Desvern
Ajuntament de Santa Coloma de Gramenet
Alfonso Álvarez Rodríguez
Anna Ibarz Pascual
Arxantx Mergulínick Tomàs, arquitecta i paisatgista
ARQ Proyectes d’Arquitectura
Arques - Molinero i Associats SL
ARQUIBLAU 5,5, SL
Arquitectes Diseño y Gestión SL
Arquitectura-G Architectural Firm SL
Albert Artigas Capellades
Asociación Equal Sarea
B-AR1987 Arquitectura i Disseny SL
Batlle i Roig SLP
BEEP SONAR SL
Blai Perez i Jordi Ramos Arquitectes Associats, SL
Luis Blanch
Blue Self Storage SL
CAAS Arquitectes SLP
Miguel Ángel Calvo Gallego
Ceiam Cabré-Alegret, SL
Coll i Fulcà Arquitectes, SLP
Consorci d’Educació de Barcelona
Consorci: Museu d’Art Contemporani de Bcn
Construccions Teixidó-Garrell SL
CREA Consultors d’Arquitectura i Enginyeria SLP
Crear Arquitectura SLP
dic 2012 SLP
De Alonso Barriga, Josep A.
De loftina Financial Advisory
Domènech Arquitectura SLPU
duguevar arquitectura, SL
Ege y Seta SL
Escarza Arquitectura, SLP
Espinet/Ubach, Arqu.
i Associats SL
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Mònica Farran Asticia
Ignacio Galan Santacana
Gavarrón de Terreny i immobles
Grupo de Ingeniería y Arquitectura Canas y Asociados SLP
Helvetic Refurbishment Group SL
Hernández Gil, Pascual
IDIADA Automotive Technology SA
IKOKORA, Architecture & Visualization
IMAR Arquitectes
Immersionplanetedesign SL
Instal laciones arquitectóniques
Institut Municipal del Paisatge Urbà i la Qualitat de Vida
Joan Josep Gisbert Torrents
Jordi Llobera Barrull
Josep Saura Linares
Kubicat, SLP
L-35 Arquitectes SA
Lanín 2011 SL
Mapfre Barcelona
Ferran Mateu Soler
Mentxel Guillén Jurado
OKOKSIVA, SCLL
OUA Gestió del Territori i Urbanisme SL
Marc Padrós Estivill
Oriol Palou
Pineda Arquitectes
Albert Pla Gisbert
Ponsesrinas-Puig i associats
Project Express Enginyeria SL
Chus Ramírez Garceran
Rn’ Projects + LEB architecture
Roca Pallàs Esteve
Rocosur i Associats SL
Rovitros Construcciones
RQP arquitectura SL
Sacchi Arquitectes
Sogar Arquitectura SLP
Studio Siart Arquitectura
T.X.T., Estudi d’Arquitectura, SL
Territori 24 Arquitectura i Urbanisme
Territori XLM SLP
Tuomo Jauhiainen
UDEU arquitectura i producció, SLP
UMA Urbanisme & Arquitectura SL
Xavier Valls Calvet
Varios arquitectes i associats
Virworks Arquitectes SLP
Voronoï 1988, SL
We are working for environment SL
Xavier Pretell Arquitectura
1
2BMGF Arquitectes SLP
4R Arquitectes
A3E Gestió d’edificis SL
Abag arquitectura i gestió SLP
Moisés Aguilar Pastor
Aigües de Barcelona, Emp. Metr. Gest. Cicle Int. Àgua SA
A) Barcelona Horta-Guinardó
Ajuntament d’Alella
Ajuntament de Cunit
Ajuntament de Mataró
Ajuntament de Montcada i Reixac
Ajuntament de Salou
Ajuntament de Sosolona
Ajuntament de Viladecans
Ajuntament d’Ullastrell
Valenti Alberda Tiana
David Alva Maqueda
Amillategui Corrado SLP
AMSA Arquitectura, SLP
Andrés & Pavan Asociados SL
Ángel Obiol, Arquitecto, SL
Anna Codina i Associats SLP
Antonio Piera, Gres, Verges Arquitectos Asociados SCP
ARAY SCCLP
Arantxa Manrique Arquitecte
Aresta d’Arquitectes SLP
Arquitectura SL
Arquitectura, SLP
Arquitectura Cañas Grupo de Ingeniería y Imobles
Artes Visuales, SCP
Arquitectura i producció, SCP
Arquitectura y Eficiencia Arquitectura
BASF Española, SL
B-CDBArquitectura
Bellapart, SAU
Bestran Hormias arquitectura, SLP
Beth Gall, SL
Bichnajmier SÀRL
BIGAS GRUP
Ibon Bilbao España
Blanca Hinojosa
Víctor Blanco Tarrats
Bogom Arquitectura, SL
Miguel Borrell Noguera
Brunner, Sandra
Bud Arquitectura SLP
Camara Bonastre Arquitectura SLP
Camilion Consulting and Development SL
Cristina Carbonell Coma
Carles Enrich Studio SLP
Carmela Torró Micó
Casacuberta Matias, Arquitectos SLP
Catalan Arquitectura
Cebert. Arquitectura, Enginyeria i Urbanisme SCLL
Clemens Kirsch architectur ZT
GMBH (ERASMUS+ SMT)
Cyss Proyectos Integrales
CM Salvi SL
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Col lectiu Punta 6, SCCL
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Consultors Urbanistic del Centre Direccional Cerdanyola del Vallès
## Data and Indicators

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### Session Hours

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ECA: Educational Cooperation Agreement  
Stu: Students  
Comp: Companies
**Exhibitions 2018-20**

- **ETSAB International Prize for University Projects In Schools of Architecture and Landscape**
  - *Industries* - Javier García-Solera Exhibition

- **Habitable Geometries**
  - October to September 2018
  - 9 Photographs by Roland Halbe

- **11 Maps in Relation to Professional Nuances in the Scalae Collection**

- **9 Situations**

- **Public Launching of the 383 Works Nominated to the EU Contemporary Architecture Award – 2019 Mies van der Rohe Award**

- **Domestic Workspaces**

- **The Paper House, WSA Vertical Studio 2019**

- **2019 Open ETSAB**

- **27 Year of ILAUD & ETSAB**

- **Donation of Manuel Ribas i Piera’s Special Collection**

- **2018-20 Architecture and Community**
EXHIBITIONS HOSTED AND ORGANIZED IN 2018-20

1. **ETSAB International Prize for University Projects in Schools of Architecture and Landscape**
   
   **25 September – 19 October 2018**
   
   **LOCATION** ETSAB’s entrance hall  
   **COORDINATION** ETSAB’s Cultural Vice Presidency, under the initiative of the International Biennial of Landscape Architecture
   
   An exhibition showing university projects by architecture and landscape schools from around the world. In addition, the projects competed for the International Prize for Projects by Architecture and Landscape Schools, which the ceremony was held on 28 September at the Petit Palau de la Música.

2. **Habitable Geometries**
   
   **23 October 2018**
   
   **LOCATION** ETSAB’s entrance hall  
   **PROFESSOR IN CHARGE** Daniel García-Escudero
   **LECTURERS** Arrate Abaigar, Félix Arranz, Jaime Blanco, Adrià Escolano, Relja Ferusic, Queralt Garriga, Ariadna Perich, Jaume Prat, Carles Sala, Magda Saura, Roger Such, Toni Vidal
   **SCHOLARSHIP ASSISTANT** Eduard Llorens  
   **COORDINATION** ETSAB’s Cultural Vice Presidency
   

3. **Industries • Javier García-Solera Exhibition**
   
   **5 February – 25 March 2019**
   
   **LOCATION** ETSAB’s entrance hall  
   **COORDINATION** ETSAB’s Cultural Vice Presidency and Scalae  
   **COLLABORATOR** Javier García-Solera
   
   This exhibition pretends to be recognition of the work as an industry, as a place where it comes true what until then has only been possible thought; where the manufacture of the architecture occurs. And it is also a praise of polytechnic training as a compendium of knowledge necessary to undertake not only materialization, but also the thought of architecture itself.

4. **9 Photographies by Roland Halbe • 9 Situations**
   
   **7 February 2019**
   
   **LOCATION** ETSAB’s entrance hall – Espai Trànsits  
   **COORDINATION** ETSAB’s Cultural Vice Presidency  
   **COLLABORATORS** Scalae, Lamp, Geze, Pergo, Consentino, Reynaers, Mapei
   
   Based on 9 large-format photographs (100 x 125 cm) referenced in the digital monograph “Roland Halbe... by himself”, from the international collection of architecture + architects ebooks from scalae, testimony to the recent personal and professional proposal of the German photographer.
11 Maps in Relation to Professional Nuances in the Scalae Collection

5 March 2019 –

LOCATION  ETSAB’s entrance hall – Espai Trànsits  COORDINATION  ETSAB’s Cultural Vice Presidency and SCALAE  COLLABORATORS  Lamp, Geze, Pergo, Consentino, Reynaers, Mapei

Students from the school expose graphically and related, in his third year of studies, critical positions towards the nuances expressed by various professionals, architects and photographers, in the international collection of ebooks of SCALAE.

Public Launching of the 383 Works Nominated to the EU Contemporary Architecture Award – 2019 Mies Van Der Rohe Award

1 April – 19 May 2019

LOCATION  ETSAB’s entrance hall – Espai Trànsits  COORDINATION  ETSAB’s Cultural Vice Presidency, Mies van der Rohe Foundation

This exhibition shows the 383 panels of the projects that the prestigious members of The Mies van der Rohe Foundation, together with the Creative Europe program of the European Commission jury have analysed, discussed and judged. The set is the background that describes the architectural moment that we are currently witnessing in Europe.

2019 Open ETSAB

15 – 21 May 2019

LOCATION  ETSAB  COORDINATION  ETSAB’s Cultural Vice Presidency  COLLABORATORS  2019 Architecture Week, GAriqEtsaB and MARqEtsaB

The Barcelona School of Architecture (ETSAB) opens its doors and presents an exhibition of the most significant works of all the school’s courses. This exhibition is open both to the educational community of the center and to the whole city. The aim is to show the School, not only as a space but as a pedagogical program, to all those who are interested in architecture and how an architect is created.

The Paper House, WSA Vertical Studio 2019

19 July 2019 –

LOCATION  ETSAB’s entrance hall
International Workshop with WSA Welsh School of Architecture, Cardiff University

A significant indoor site where students had the chance to translate their design from the drawing to a 1:1 construction.
27 Years of ILAUD & ETSAB

12 December 2019 - 12 February 2020
LOCATION ETSAB’s entrance hall ORGANIZATION ETSAB’s Cultural Vice Presidency and Fondazione dell’Ordine degli Architetti P.P.C. della Provincia di Milano


Domestic Workspaces - Sílvia García Camps

6 February - 6 March 2020
LOCATION ETSAB’s entrance hall COORDINATION ETSAB’s Cultural Vice Presidency

Representation of architecture and interior design through illustrations of inaccurate geography, which are born from the union between analogue—freehand drawing—and technology—subsequent computer mounting.


18 February 2020
LOCATION ETSAB’s entrance hall
ORGANIZATION ETSAB’s Cultural Vice Presidency and Polytechnic Digital Initiative

The objective of this initiative is the visibility of the ETSAB and the people who make it up or who have been part of it facilitating the presence of the School in our society. Their academic production as a result of this work since the beginning of the ETSAB, its teachers and students have been fundamental engines in the construction of the city of Barcelona.

Donation of Manuel Ribas i Piera’s Special Collection

20 February 2020
LOCATION Oriol Bohigas Library’s Hall, ETSAB
ORGANIZATION Oriol Bohigas Library and ETSAB’s Publication Vice Presidency
WEB https://bibliotecina.upc.edu/es/etsab/fons-manuel-ribas-piera

Manuel Ribas i Piera (1925-2013) was a Professor of Urbanism from 1965 to 1990 at the Barcelona School of Architecture. In 2018, fulfilling his wish, their children donated their books of architecture, town planning and landscaping to the ETSAB Library, increasing the value of our heritage with a special collection with more than 750 titles published between the 16th and 20th centuries.
Many of you might say: What is an architect doing talking about wisdom? Why? What for? I do it because, among other reasons, I think that in order to make the best architecture possible, wisdom is needed.

Baeza is Professor Emeritus of Architectural Projects at the Architectural School in Madrid, ETSAM, where he has taught for more than 35 years. He also lectured at the ETH in Zurich and the EPFL in Lausanne, the University of Pennsylvania in Philadelphia, the Bauhaus University in Weimar, the Kansas State University, the CUA University of Washington and L’École d’Architecture in Tournai, Belgium and he has been Clarkson Visiting Chair in Architecture by the University at Buffalo.

In the academic year 2018-19, he has been Visiting Professor at Barcelona School of Architecture, ETSAB.
Conferences and Lectures
Autumn Term 2018
Culture Tuesdays

1. Dequera! Quintet Concert
   Interpreting Piazzolla
   18 September 2018
   MUSICIANS: Iu Boixader, Gustavo Llull, Julián Álvarez, Blai Navarro and Dario Barroso
   LOCATION: ETSAB's Conference Hall
   LINK TO VIDEO: UPCtv | Youtube
   LINK: HEREU-ESPAÑOL Arquitectes

2. Renaissance Façade in 3D
   9 October 2018
   PARTICIPANTS: Jordi Berenguer, Felix Solaguren, Jordi Faulí, David Puig, Pilar García and Juan Manuel Corso
   LOCATION: ETSAB's Conference Hall
   LINK TO VIDEO: UPCtv | Youtube

3. What Critique Can Do.
   Taking Positions in Landscape Architecture and Urban Design
   25 September 2018
   SPEAKERS: Andrea Kahn and Lisa Diedrich
   LOCATION: ETSAB's Conference Hall
   LINK TO VIDEO: UPCtv | Youtube

   23 October 2018
   SPEAKER: Xavier Monteys
   LOCATION: ETSAB's Conference Hall
   LINK TO VIDEO: UPCtv | Youtube
   LINK: habitar- grupo de investigación UPC

5. Travel: Learn and Teach
   Book presentation: Destino Barcelona, 1911-1991
   30 October 2018
   SPEAKERS: Carolina B. García-Estévez, Ramon Graus and Josep M. Rovira
   LOCATION: ETSAB's Conference Hall
   LINK TO VIDEO: UPCtv | Youtube
   LINK: fundación arquia

6. Public Eyes
   27 November 2018
   SPEAKER: Matija Bevk
   LOCATION: ETSAB's Conference Hall
   LINK TO VIDEO: UPCtv | Youtube

7. Seven Polygons against Nine Quadrants
   4 December 2018
   SPEAKER: Arturo Frediani Sarfati
   LOCATION: ETSAB's Conference Hall
   LINK TO VIDEO: UPCtv | Youtube

8. Withdrawal and Universality
   18 December 2018
   SPEAKER: Alberto Campo Baeza
   LOCATION: ETSAB's Conference Hall
   LINK TO VIDEO: UPCtv | Youtube
Spring Term 2019

Conferences and Lectures

February

March

April

Events

- Collective Forms in China
  - March 2019
- Fernando García Sánchez: Terrenos Públicos
  - April 2019
- Luis Daurella y Montaner: el estudio y el arquitecto
  - April 2019
- La fábrica de la Arquitectura
  - April 2019
- Petri Mangerud
  - April 2019
Conferences and Lectures
Spring Term 2019
Culture Tuesdays

A - Javier García-Solera
B - Roland Halbe
C - Sam Jacoby
D - E. Granell, C. Rodríguez, C. B. García, and A. Ramon
E - Félix Arranz
F - Patxi Mangado

Public Vocation
5 February 2019
SPEAKER Javier García-Solera
COORDINATION ETSAB's Culture Assistant Management
LOCATION ETSAB's Conference Hall
LINK TO VIDEO UPCtv | Youtube

Roland Halbe Round Table
12 February 2019
PARTICIPANTS Félix Arranz, Coll&Leclerc, Benedetta Tagliabue - EMT, Cristina Gastón, Enric Granell, Roland Halbe and Josep Maria de Llobet
COORDINATION ETSAB's Culture Assistant Management. Under the initiative of SCALAE
LOCATION ETSAB's Conference Hall
LINK TO VIDEO UPCtv | Youtube
LINK TO WEBPAGE Scalae

Collective Forms in China
19 February 2019
SPEAKER Sam Jacoby
COORDINATION ETSAB's Culture Assistant Management. Under the initiative of Taller Tematic Arquitectes de Capçalera (General Practitioner Architects Themed Workshop)

Lluís Domènech i Montaner in The School of Architecture
26 February 2019
SPEAKERS Lluís Domènech Girbau, Carolina B. Garcia-Estévez, Antoni Ramon, Carme Rodríguez
COORDINATION ETSAB's Culture Assistant Management
LOCATION ETSAB's Conference Hall
LINK TO VIDEO UPCtv | Youtube
LINK TO WEBPAGE RBA libros

Session of Critique: 11 Maps Concerning the Professional Nuances within The Scalae Collection
5 March 2019
PARTICIPANTS Anna i Eugeni Bach, Jaume Prat, Josep Ferrandiz
COORDINATION ETSAB's Culture Assistant Management. Under the initiative of SCALAE
LOCATION ETSAB's Conference Hall
LINK TO VIDEO UPCtv | Youtube
LINK TO WEBPAGE Scalae

The Fiction of Seeing
12 March 2019
PARTICIPANTS Cristina Gastón Guirao, Clara Mejía and Maria Pia Fontana
COORDINATION ETSAB's Culture Assistant Management
LOCATION ETSAB's Conference Hall
LINK TO VIDEO UPCtv | Youtube

Juicy Skins
19 March 2019
PRESENTATION AND DISCUSSION ON THE BOOK BY Jaume Prous, Pablo Garrido
PARTICIPANTS Ibon Bilbao, Jaime Coll, Elena Fernández, Pablo Garrido, Cristina Pardal and Jaime Prous
COORDINATION ETSAB’s Culture Assistant Management
LOCATION ETSAB’s Conference Hall
LINK TO VIDEO UPCtv | Youtube

Architecture vs Reinvention
III Edition FUARIENS
9 April 2019
SPEAKER Patxi Mangado
COORDINATION ETSAB’s Culture Assistant Management
LOCATION ETSAB’s Conference Hall
LINK TO VIDEO UPCtv

About Construction Elements and the Project. Case Studies
26 March 2019
SPEAKER Josep Maria González
COORDINATION ETSAB’s Culture

Assistant Management
LOCATION ETSAB’s Conference Hall
LINK TO VIDEO UPCtv | Youtube

Round Table: from Ghana to Catalonia: An 8 Years Journey Testimony by Ousman Umar. Proposal and solutions
2 April 2019
PARTICIPANTS Ousman Umar, Sandra Bestraten, Juan D. Torres and Shahd Zaarour
COORDINATION ETSAB’s Culture Assistant Management. Under the initiative of DED’AB
LOCATION ETSAB’s Conference Hall
LINK TO VIDEO UPCtv

Assistant Management
LOCATION ETSAB’s Conference Hall
LINK TO VIDEO UPCtv | Youtube

Proposal and solutions
On the occasion of the Centenary of the Bauhaus and the 50th anniversary of Mies van der Rohe’s death, Barcelona School of Architecture organized a tribute for their legacy in present. The balance between the critical value of history and the future challenges of our discipline is something that we all share in common.

We had the privilege to join professor Fritz Neumeyer to spread the same spirit. He generously accepted our invitation, and his presence in Barcelona was an honour to all our Academic Community. Prof. Neumeyer is one of the most important theorists of architecture of the last century and the best specialist of Ludwig Mies van der Rohe’s work. His lecture—entitled ‘Mies van der Rohe: Outside the Bauhaus’—joined both landmarks, arguing the junction after Bauhaus closing in 1933 and Mies’ sources and imaginaries, showing how time and history shaped architecture into a broader frame of discussion.

Neumeyer is Professor Emeritus at the Technische Universität Berlin and he is author of several monographs about German architecture in the XVIIIth and XIXth centuries, like Friedrich Gilly. Essays on Architecture, or Der Klang der Steine. His book The Artless Word. Mies van der Rohe on the Building Art, published by MIT Press in 1991 is still considered the best intellectual biography of the German architect until nowadays. An indispensable title to tackle the complexity and critical reception of one of the best architects of history. The book, as all of you will remember, was translated into Spanish in 1995 by El Croquis Editorial, under the title Mies van der Rohe. La palabra sin artificio: reflexiones sobre arquitectura 1922/1968.

Carolina B. García-Estévez, Vice-dean of Publications
Conferences and Lectures
Autumn Term 2019
Culture Tuesdays

A - Salvador Ordóñez
B - Cristian Larrain and Matias Madsen
C - Xavier Monteys presenting Iñaki Alday
D - Josep Lluís Mateo.
1 October 2019
Speaker: Josep Lluís Mateo
Coordination: ETSAB’s Culture Assistant Management
Location: ETSAB’s Conference Hall
Link to Video: UPtv

E - Josep Lluís Mateo
F - Juan Herreros
G - Xavier Ferrés
H - Anna Altemir and Andrea Martín
I - M. Guerrero, E. Serra and F. Fargas
J - Carlos Quintans

Structural Wood
at the Service of Architecture
1 October 2019
Speaker: Salvador Ordóñez
Coordination: ETSAB’s Culture Assistant Management
Location: ETSAB’s Conference Hall
Link to Video: UPtv

Use-Less
1 October 2019
Speakers: Cristian Larrain and Matias Madsen
Coordination: ETSAB’s Culture Assistant Management
Location: ETSAB’s Conference Hall
Link to Video: UPtv

Between Urgency and Contradiction
15 October 2019
Speaker: Iñaki Alday
Coordination: ETSAB’s Culture Assistant Management
Location: ETSAB’s Conference Hall
Link to Video: UPtv

Various Techniques
12 November 2019
Speaker: Juan Herreros
Coordination: ETSAB’s Culture Assistant Management
Location: ETSAB’s Conference Hall
Link to Video: UPtv

Details do Matter
14 November 2019
Speaker: Xavier Ferrés
Coordination: ETSAB’s Culture Assistant Management
Location: ETSAB’s Conference Hall
Link to Video: UPtv

Architecture and Cooperation
14 November 2019
Speakers: Anna Altemir and Andrea Martín
Coordination: ETSAB’s Culture Assistant Management
Location: ETSAB’s Conference Hall
Link to Video: Youtube

Joan Brossa among Architects
Round table
26 November 2019
Participants: Estève Bonell, Glòria Bordons, Frederic Fargas, Bet Gali, Enric Granell, Manuel Guerrero, Arnau Puig and Enric Serra
Coordination: ETSAB’s Culture Assistant Management
Location: ETSAB’s Conference Hall
Link to Video: Youtube

Architecture of Drying
10 December 2019
Speaker: Carlos Quintans
Coordination: ETSAB’s Culture Assistant Management
Location: ETSAB’s Conference Hall
Link to Video: Youtube

20th Anniversary of Palimpsest & 20 Flash Fictions from The School
17 December 2019
Presents: Carlos Ferrater, Alberto Peñín and Cecília Obiol
Coordination: ETSAB’s Culture Assistant Management
Location: ETSAB’s Conference Hall
Link to Video: Youtube
CONFERENCES AND LECTURES
SPRING TERM 2020

A. La experiencia museística
   February

B. Juhani Pallasmaa
   March

C. Anuntes dispersos
   April

D. Hacer cine con la arquitectura
   May
Conferences and Lectures
Spring Term 2020
Culture Tuesdays

**The Museum Experience**
11 February 2020
**SPEAKER** Mara Partida
**COORDINATION** ETSAB’s Culture Assistant Management
**LOCATION** ETSAB’s Conference Hall
**LINKS** Presentation of the 30th edition of the “Pladur® Constructive Solutions Contest” Conference “The Museum experience” by Mara Partida
Award winning project of the 29th edition of the Pladur® Contest

**The Accent of Ilaud**
Closing of the exhibition 27 years of ILAU†D & ETSAB 1976-2003
12 February 2020
**MAIN LECTURE** Attilio Gobbi
**PARTICIPANTS** Aquiles González, Arturo Frediani, Fernando Ramos and Ferran Segarra
**COORDINATION** ETSAB’s Culture Assistant Management
**LOCATION** ETSAB’s Conference Hall

**Lessons Learned**
18 February 2020
**SPEAKER** Roger Such
**COORDINATION** ETSAB’s Culture Assistant Management. Under the initiative of Foro Cerámico HISPALYT
**LOCATION** ETSAB’s Conference Hall
**LINK** Youtube

**Juhani Pallasmaa – Inhabiting: Minimum Dwelling**
**SPEAKER** Juhani Pallasmaa
**COORDINATION** ETSAB’s Culture Assistant Management. Under the initiative of Visiting Studio
**LOCATION** ETSAB’s Conference Hall

**5 March 2020**
Drawing by the Mind: Pen, Hand Eye and Brain
**12 March 2020**
Animal Architecture: Lessons for Ecological Buildings
**17 March 2020**
The Multi-sensory Reality - Integrating the Existential Experience
**24 March 2020**
The Existential Meaning in Architecture - The Fusion of the Self and the World

**Xavier Rubert de Ventós**
25 February 2020
**SPEAKERS** Pedro Azara, Norbert Bilbeny, Ricardo Bofill, Juli Capella, Beth Gali, Marta Llorente, Oriol Pibernat, Blanca Pujals, Josep Ramoneda, Carme Ribas, André Ricard, Estanislau Roca and Félix Solaguren-Beascoa, introduced by Francesc Torres, Chancellor of Barcelona Tech
**COORDINATION** ETSAB’s Culture Assistant Management
**LOCATION** ETSAB’s Conference Hall
**LINK TO VIDEO** Youtube

**Dispersed Notes**
3 March 2020
**SPEAKER** Joan Pascual
**COORDINATION** ETSAB’s Culture Assistant Management
**LOCATION** ETSAB’s Conference Hall
**LINK TO VIDEO** Youtube

**Make Cinema with Architecture**
10 March 2020
**SPEAKERS** Ricardo Flores, Adrià Lahuerta and Maria Maüti
**COORDINATION** ETSAB’s Culture Assistant Management. Under the initiative of the elective course: Architecture and Cinema
**LOCATION** ETSAB’s Conference Hall
**LINK TO VIDEO** Youtube

**Scenography, Scenic Space and Architecture**
5 May 2020
**SPEAKER** Jean-Guy Lecat
**COORDINATION** ETSAB’s Culture Assistant Management. Under the initiative of the elective course: Introduction to Scenography
**LOCATION** Conference in streaming (under COVID-19 pandemic)
ETSAB Visiting Studio 2014-19

In 2014, Barcelona’s School of Architecture (ETSAB) and Barcelona’s Metropolitan Area and its city council started a series of academic exchanges with international professors and universities through the ETSAB Visiting Studio, following a tradition reflected in our history as international networkers. Anupama Kundoo, Ricardo Bak Gordon, Stephen Bates, Agence TER, RCR, Dietmar Eberle, Andrea Deplazes, Alberto Campo Baeza, Javier Solera, Josep Lluís Mateo and Juhani Pallasmaa were the first scholars to face various locations and problems in Barcelona and its metropolitan area in their workshops.

This collection aims to build a legacy through the scholars’ voices and the students’ work.

Breus-Breves-Briefs

Breus–Breves-Briefs is a new and free collection of texts that can be found at the ETSAB’s entrance hall. They are short architectural texts or projects. Their recurrence will be variable. The print is limited and available only in paper support.


**Llegats-Legacies**

**#05**
**AUTHOR** Josep M. Rovira  
**TITLE** Rovira arquitecte  
**EDITION** Rosa Rafart Degracia  
(Barcelona: Barcelona School of Architecture Culture Department, 2020)  
**URL** http://hdl.handle.net/2117/177515

**#04**
**AUTHOR** Pere Casajoana Salvi  
**TITLE** Jujol versus Jujol. La fontana de la Plaça d’Espanya (1928-29)  
(Barcelona: Pere Casajoana Architects, 2019)  
**URL** http://hdl.handle.net/2117/173999

**#03**
**AUTHOR** Soldevila Arquitectes  
**TITLE** Soldevila, Soldevila, Soldevila: Projectes per al segle XXI  
(Projects for the 21st Century)  
(Barcelona: Metro-Book Publishing Group, 2019)  
**URL** http://hdl.handle.net/2117/173996

**#02**
**AUTHOR** Aquiles González  
**TITLE** Elogio de una carta (In Praise of a Letter)  
(Barcelona: Barcelona School of Architecture Culture Department, 2018)  
**URL** http://hdl.handle.net/2117/175639

**#01**
**AUTHOR** Maurici Pla Serra  
**TITLE** Trazos de teoría. Escritos sobre arquitectura 2002-2016  
(Barcelona: Barcelona School of Architecture Culture Department, 2016)  
**URL** http://hdl.handle.net/2117/176169

**Lliçons-Lectures**

**AUTHOR** Ignacio Paricio Ansuategui  
**TITLE** Las razones de la forma y la formación del arquitecto: lección inaugural 2016-17; Oriol Bohigas Guardiola: Entrevista (Barcelona: ETSAB Culture, 2019)  
**COMPLETE COLLECTION AT:** https://etsab.upc.edu/ca/escola/cultura/publicacions/llicons-lectures/llicons-lectures

Publication that gathers the contents of the lecture: ‘The reasons for the shape and the architect’s training’, given by architect and professor Ignacio Paricio Ansuategui on the 19 October 2016, as opening lecture for the 2016-17 academic course at Barcelona School of Architecture. The lecture is supplemented by an interview to Oriol Bohigas, as an exemplary personality in the School’s life.

**Tributes (Polytechnic Digital Initiative - PDI)**

**#1**
**TITLE** Quan a classe érem tres-cents  
(When we were three hundred in the classroom)  
Tribute to Xavier Rubert de Ventós  
**EDITION** Pedro Azara, Maria Rubert  
Polytechnic Digital Initiative – Barcelona Tech, 2019  
**ISBN** 9788498808247  
**URL** http://hdl.handle.net/2117/176879

**#2**
**TITLE** Hablando de color, ante la duda: marrón  
(Talking about colour, when in doubt: Brown)  
Tribute to Federico Correa by Barcelona School of Architecture  
**EDITION** Estanislau Roca, Félix Solaguren-Beascoa  
Polytechnic Digital Initiative – Barcelona Tech, 2020  
**ISBN** 9788498808483  
**URL** http://hdl.handle.net/2117/329632
The objective of this initiative is Barcelona School of Architecture's visibility as well as that of its past and present people, easing its presence in our society.

What would be better than showing not only its academic production but also that resulting from the professional practice that helps the teaching and researching? They cannot and should not be disassociated.

As a result of this work since the establishment of Barcelona School of Architecture, its faculty and students have been an essential part in the construction of the city of Barcelona. We could look at, for example, the construction of the Eixample expansion district or Barcelona’92. But the School is even more ambitious and it has not limited itself to a specific area: this model of relationship between teaching, project and city has been exported worldwide.

With this issue, we start this voyage to the various moments in the living history of our School.


"I have given the six conferences a unifying title: 'Touching the World through Architecture', derived from a comment by Maurice Merleau-Ponty about Paul Cézanne’s paintings, which 'visualise how the world touches us'.

In my opinion, this is also the essential task of architecture: to provide us with an existential fulcrum in this world, and to raise awareness and express how the world touches and embraces us and vice versa, how we touch the world through our senses and our understanding.

'Through vision, we touch the sun and the stars', writes Merleau-Ponty. Architecture's task is to strengthen our sense of what is real poeticising our experience of the real.'”

Juhani Pallasmaa

Juhani Pallasmaa (Hämeenlinna, 1936) is an architect and has been practicing architecture since the early 1960s in Helsinki. He was professor and dean at the Polytechnic University of Helsinki, director of the Museum of Finnish Architecture and dean of the Institute of Industrial Arts in Helsinki. He has been a speaker and visiting professor at various Schools of Architecture around the world, Barcelona School of Architecture included.

He is the author of numerous articles and books about philosophy, psychology and theory of architecture and art published in more than thirty languages.

Title: Tocando el Mundo (Touching the World)

Co-edited by: Polytechnic Digital Initiative – Barcelona Tech

ISBN: 978-84-17905-19-4
While turbulences of all kinds arbitrarily characterise our contemporary ambience, the centrality of a handful of attitudes and works that throughout the 20th century have developed the poetry of silence and have been able to interpret, through it, the chaotic and elusive reality of our time is increasing. These pages are devoted to the attempt to unravel some of the keys to that independent frame of mind.

The text is organised based on ten short studies about central topics in contemporary art and architecture and on renowned protagonists for whom moderation has been an essential ingredient of their work: Jorge Luis Borges, Ludwig Mies van der Rohe, Yasuhiro Ozu, Mark Rothko and Jorge Oteiza. Beyond the significant geographical and cultural differences that come between the topics faced, they share a common characteristic: the rejection of art understood as a hysterical attack on the senses, as has been advertised by the mass media pseudo-culture and, against it, the assertion of the artistic interpretation of reality as a deep and telling reflection with the aim to reveal the world’s mysteries.

Carlos Martí Arís held a PhD in Architecture and was a tenured professor in Architectural Projects at Barcelona School of Architecture of Barcelona Tech. He was cofounder and assistant director to the 2C.Construcción de la Ciudad magazine and editor of the DPA magazine, edited by the Department of Architectural Design of Barcelona Tech. He has also driven other editorial initiatives such as the collections Estudios Críticos y Arquitectura / Teoría by Ediciones del Serbal; and Arquitectura, edited by Fundación Caja de Arquitectos.

He was the author of various books, including: Las variaciones de la identidad. Ensayo sobre el tipo en arquitectura (1991, 1993 and 2014); Las formas de la residencia en la ciudad moderna (1991); Santiago de Compostela. La ciudad histórica como presente (1995); La cimbra y el arco (2005); La arquitectura del cine. Estudios sobre Dreyer, Hitchcock, Ford y Ozu (2008), and Cabos sueltos (2012).

In 2014, Barcelona School of Architecture bestowed the ‘magister honoris causa’ award upon him in recognition of an extensive and extraordinary academic and professional career.

On the occasion of Barcelona Tech’s 50th anniversary, the ARCHIVE SERIES collection proposes to explore the narrative limits of one of the best archives about architecture teaching in Europe since the 18th century: the graphic library of Barcelona School of Architecture.

Through the call for submissions into a writing award, we expect not only to celebrate and publicize part of the inherited richness of an institution which started its voyage in the 18th century, but also to build an exchange network with local institutions that protect their built heritage and some of the most internationally renowned ones that ease the understanding of the circulation of ideas surrounding the architect’s training.

Drawings, models, photographs, black books, transcriptions, notes, full-size replicas, etc. are just a few of the formats that constitute a working material of great value for scholars, critics and historians. But, above it all, they constitute the intellectual legacy over which Barcelona School of Architecture has built two centuries of the modern history of the city, reflecting on questions that have no answer to this day.

The readings of the archived material are faced with the paradox of the deepness of the thought, which is only developed in things and in between things. Thus, the records of the architect’s activity include numerous formats: drawings, glass panes, negatives, notebooks, manuscripts, moulds, etc. from drawings to photos and full-size replicas. A sort of archaeology of the means that invites to new transhistorical narratives through the questions posed to those materials from the present, understanding and reliving the past from new methodological approaches.

The first edition of the ARCHIVE SERIES Award is focused on the graphic record of the architect Josep M. Jujol’s (1879-1949) drawing class, and is entitled These Gleamings of Dust. Josep M. Jujol, Professor of Drawing. After this first edition, two new ones are planned for 2021, that aim at starting a series to be completed in 2025, on the occasion of the 150th anniversary (1875-2025) of Barcelona School of Architecture founding.
From left to right: Guillem Carabí, Elena Fernández Sala and Félix Solaguren-Beascoa, showing the award produced by Cosentino; Elena Fernández Sala, Vice-dean of Facility Management and Heritage at the Barcelona Tech School of Architecture; and Scientific Committee of ARCHIVE SERIES, Estanislau Roca, Vice Chancellor of Architecture at Barcelona Tech; Félix Solaguren-Beascoa, Dean of Barcelona Tech School of Architecture and President of the Jury; Guillem Carabí, Assistant Lecturer at the Department of Theory and History of Architecture and Technical Communication, and winner of the first ETSAB Writing Award, *These Gleamings of Dust*, Josep M. Jujol, Professor of Drawing; Carme Fenoll, Head of the Chancellor Office at Barcelona Tech

The award, designed by the Scientific Committee of ARCHIVE SERIES, produced by Cosentino

From left to right, clockwise: The winners Diego A. Rodríguez Lozano (Professor, Tecnológico de Monterrey), Javier Toledo Cárdenas (Graduate Student at Barcelona Tech School of Architecture), Guillem Cerezo Sánchez (Undergraduate Student, Barcelona Tech School of Architecture), and Kaylee Rashelle Posada Ayala (Undergraduate Student, Madrid School of Architecture, Polytechnic University of Madrid)

Attendees by Google Meet to the online Ceremony, 15 December 2020
6th Networking Talent Day

6 November 2018
COORDINATION Vicen-Dean of Culture and Facility Management

Networking Talent Day (NTD) is an event organised by the Association of Former Students of Barcelona Tech that eases contact between companies and the talent that blossoms at Barcelona Tech. This edition was devoted to Architecture, Urban Planning and Building.

The event took place on the 6 November at Barcelona School of Architecture (ETSAB) and on the 7 November at Barcelona School of Building Construction (EPSEB), and was aimed at professional profiles of the building sector.

Participating companies: Associació de consultors d’estructures (ACE), B720, Bellapart, B'TA, CBRE Real State, Construccions Rubau, Deloitte, Domotoys, Elecnor, Enginyeria i project management, Ferrovial, Hospital Clínic de Barcelona, Idom, Savills Aguirre Newman, Somfy and Sostre Civic.

Competitions’ Workshop

Barcelona School of Architecture Competitions Workshop aims to encourage student participation in architectural competitions for students as long as the academic objective is explicitly mentioned in the wording.

Therefore, it is a “Project Workshop” which, instead of working from academic requirements, does so from a standpoint closer to what a “real commission and specific client” situation would be. Barcelona School of Architecture Management Team decided that, instead of conditioning any project workshop to the subjects addressed by the various competitions, it was more interesting to offer a new teaching typology based on:

Offering the material and personal means needed to develop this assignment. In relation to material means, a fixed work space with minimal equipment has been fitted out within Barcelona School of Architecture. In relation to personal means, each work team has to choose a tutor that will monitor the project, solve questions and will give grades to the finished job.

Inspiring the student’s autonomy, not only on the self-teaching implied in the development of the project, but also on the organization and discipline needed to comply with the schedule.

Acknowledging this academic assignment with up to 6 optional ECTS.

SESSION 2019-20

Hispalyt Competition, derived from the agreement on joint activities between Barcelona School of Architecture (ETSAB) and Foro Cerámico Hispalyt.
CHAPEL AT THE WAY OF SAINT JAMES (Camino de Santiago)
From Francisco Javier Sáez de Oíza initial competition project

ETSAB First Award

MOTTO HM4326
AUTHORS Gaspar Picó Calbet, Pol Aguilella Saavedra, Manel Lara Muros

The jury values in this project the simplicity of the layout of walls and spaces. Using simple elements, well located and oriented, a series of external, internal and semi-opened spaces meeting the requirements of the program were created. Also, the relationship with the surroundings was correctly met as well as the simple construction with elements needing little maintenance.

chapel at the way of saint james (Camino de Santiago)
From Francisco Javier Sáez de Oíza initial competition project

ETSAB First Award

MOTTO HM4326
AUTHORS Gaspar Picó Calbet, Pol Aguilella Saavedra, Manel Lara Muros

The jury values in this project the simplicity of the layout of walls and spaces. Using simple elements, well located and oriented, a series of external, internal and semi-opened spaces meeting the requirements of the program were created. Also, the relationship with the surroundings was correctly met as well as the simple construction with elements needing little maintenance.
ETSAB First Mention

**MOTTO** MX1140

**AUTHORS** Guillermo de Pouplana Civil, Javier Manén Fernández, Pablo Rocabert Messa

The jury wants to highlight this project because it is a risky proposal. In a very strong piece, it combines a very opaque volume from the outside with an interesting interior space where the brick reaches all its tectonic expression, with references to timeless architecture through the use of water, textures, light and shade.
This proposal stands out for the sculptural value of the piece, which is well connected to its location. Through the use of a latticework folded in itself a series of internal spaces are defined. Due to the shape of the walls and the slits of light, the latticework encloses an isolated, shaded and resting space. Its geometry also integrates some service spaces.
Manuel de Solà-Morales European Prize

Every two years, the Manuel de Solà-Morales European Prize will recognize the best university research in the field of urbanism carried out by a student granted a PhD. Candidates can be anyone studying at a European University whose research for their doctoral thesis is grounded in urbanism, according to the application procedure on lub.upc.edu/msmprize. The award honours the memory of Professor of Urbanism, and architect, Manuel de Solà-Morales Rubió (1939-2012) who understood his subject as a creative and intellectual activity, committed to improving cities through what he called ‘persistent research’.

First Edition Award Ceremony

13 March 2017
12.00 h
Reading of the verdict
Escola Tècnica Superior d’Arquitectura de Barcelona
Universitat Politècnica de Catalunya
19.00 h
The Invention of Frank Gehry
Open lecture by Chairman of the Jury
Prof. Jean Louis-Cohen
Col·legi Oficial d’Arquitectes de Catalunya (COAC)

11 May 2017
11.00 h
La arquitectura de la vía. Hipótesis de lo no híbrido
Prof. Eric Alonzo
First Manuel de Solà-Morales European Prize 2017

Second Edition Award Ceremony

19 March 2019
12.00 h
Reading of the verdict
Escola Tècnica Superior d’Arquitectura de Barcelona
Universitat Politècnica de Catalunya
19.00 h
Designing infrastructure to foster revitalization
Lecture by the Chairman of the Jury
Prof. Marcel Smets
Col·legi Oficial d’Arquitectes de Catalunya (COAC)

21 May 2019
11.00 h
Plugin. Interfaces urbanas en los nuevos centros lineales
Prof. Renata Priore
Second Manuel de Solà-Morales European Prize 2019

The second call of the Manuel de Solà-Morales Award 2019 has received 49 entries based on doctoral theses from 25 universities located in 10 European countries: Spain (26), Portugal (11), Italy (3), Switzerland (3), France (1), Sweden (1), Belgium (1), Norway (1), Germany (1), and Turkey (1).
REPORT OF THE JURY

The composition of the jury of the Second Manuel de Solà-Morales European Prize was as follows: prof. Marcel Smets (chairman of the jury), prof. Matthew Carmona and arch. Montserrat Nogués (vocal), and prof. José González-Cebrián (secretary of the jury). The jury was assisted by prof. Álvaro Clua from Laboratori d’Urbanisme de Barcelona (ETSA Barcelona).

In the first stage, the jury thoroughly analysed the abstracts of the 49 theses submitted to the on-line platform until 15th July 2018. A joint-session of the jury was held on 2nd October 2018 and the jury agreed to highlight the high interest raised by the initiative, based on the high number on entries; to highlight the quality of the submitted theses and to emphasise the varied range of research topics, many of which are references for current urban design practice. Each of the thesis was discussed following each jury member’s individual assessment and concluded with the selection of 7 shortlisted theses (alphabetical order):

Anne Kockelkorn, The social condenser II. An archaeology of housing in the Parisian banlieue based on the housing projects of Ricardo Bofill and Taller de Arquitectura.

Celia Martínez Hidalgo, Cartagena y su campo. Historia y proyecto. (Cartagena and its hinterland. History and Project).

Carolina Mónica Gonçalves Martins, Understanding accessibility in cultural landscapes sites. The case of Parques de Sintra, Monte da Lua.

Juan Antonio Chávarri Sarasua, La alargada huella de la plaza de la pelota. (The persistent footprint of Ball Squares).

María Cabral Matos Silva, Public space design for flooding: facing the challenges presented by climate change adaptation.


The shortlisted theses were analysed in full detail by the jury members during the period ranging from October through January, using both the complete digital versions and the hardcopies of the theses as presented for their respective VIVAS. In a joint session held at Laboratori d’Urbanisme de Barcelona on the 25th January 2019, the jury unanimously selected a winner and three theses that were granted a special mention. Based on the remarks of the four members, the following statements reflect their shared positions:
First of all, the Jury would like to acknowledge the outstanding value of the three shortlisted candidates (alphabetical order):

Celia Martínez Hidalgo, who wrote her doctoral thesis under the co-supervision of Prof. Dr. José Luis Gómez Ordóñez and Prof. Dr. Rafael Reinoso Bellido, Universidad de Granada. Her thesis, entitled Cartagen a y su campo. Historia y proyecto (Cartagena and its hinterland. History and project), successfully presents an outstanding research based on exuberant graphic analysis—mainly elaborated by the author—as a tool to develop a mature description of the physical evolution and the intellectual, political and socio-economic footprints of the city of Cartagena. The thesis successfully analyses the city through five key interventions, a methodology that could be potentially applied to inform the study of other cities in the Mediterranean context.

Maria Cabral Matos Silva, who wrote her doctoral thesis at the Universitat de Barcelona, under the co-supervision of Prof. Dr. João Pedro Costa, (Universidade de Lisboa, Faculdade de Arquitetura) and prof. Dr. Cristina Castel-Branco (Universidade de Lisboa, Instituto Superior de Agronomia). Her thesis, entitled Public space design for flooding: facing the challenges presented by climate change adaptation presents a detailed analysis on the challenge of flooding, through the detection of up to 40 categories and new tools for a resilient public space design. The thesis reviews a wide number of strategies adopted in different countries in an attempt to build up a wider conceptual framework and apply those impact mitigation strategies in the context of Lisbon.

Carolina Mónica Gonçalves Martins, who wrote her doctoral thesis under the cosupervision of Prof. Dr. Teresa Frederica Tojal de Valsassina Heitor, Prof. Dr. António Ressano Garcia Lamas, and Eng. Nuno Miguel Rodrigues Marques Oliveira and was defended at the Instituto Superior Técnico—Universidade de Lisboa. Her thesis, Understanding accessibility in cultural landscapes sites. The case of Parques de Sintra, Monte da Lua. The thesis follows a research model based on the analysis of two case studies: Park of Montserrat and Park of Pena. While acknowledging the interest of the topic due to its importance in today’s society, and the correct methodological development, addressing the current difficulties to adapt accessibility and Cultural Heritage, the research becomes too narrative and the graphic material is too abstract.

The Jury agreed to nominate three special mentions for the Second Manuel de Solà-Morales European Prize. There is no hierarchy among them, who are:

Anne Kockelkorn, who wrote her doctorate under the supervision of Prof. Dr. Philip Ursprung, ETH Zurich, Department of Architecture. Entitled The social condenser II. An archaeology of housing in the Parisian banlieue based on the housing projects of Ricardo Bofill and Taller de Arquitectura, the thesis gives a thorough and close-up view reading of a not well-known period of time of social housing in France, how they changed the social policy to integrate the liberal attitude trying to create a settlement for the whole society. Through an in-depth study and personal living in Ricardo Bofill’s projects, the thesis gives an innovative perspective to the in-between field between ‘microurbanism’ and ‘macroarchitecture’, thus enrichening the understanding of the megastructures and bringing together views from the sociology, the economics, the psychology and architecture. The thesis is also a valuable and complete contribution to the literature review on that topic.

Juan Antonio Chávarri Sarasua, who wrote his doctorate under the supervision of Prof. Dr. Xabier Unzurrunzaga Goikoaite, Universidad del País Vasco - Euskal Herriko Unibertsitatea. His thesis, entitled La alargada huella de la plaza de la pelota (The persistent footprint of ball squares) presents a mature research on the Basque Country’s medieval cities from the perspective of the Juego de la Pelota (Ball Game) and its evolution over time. The thesis combines a sound theoretical background with a professional understanding of the city, including clear written arguments and thorough graphic documentation. Sketches, elevations, cross sections, precise photographs, textures in redrawn, recreated and re-elaborated plans are combined in a proper format and layout and effectively presents both a global analysis of the historic settlements and the detailed reading of the transformation of the squares. The thesis also is exemplary in its potential for transversal reading and demonstrates the capacity to read the city with an educated eye: its observation is based on reflection and thought, its thinking on observation.

Miriam García García, who wrote her doctorate under the supervision of Prof. Dr. José María Ezquiaga Domínguez, Universidad Politécnica de Madrid. Her thesis, Hacia la metamorfosis sintética de la costa. Diseñando paisajes resilientes (Towards a synthetic metamorphosis of the coastline. Designing resilient landscapes), makes use of a planning approach to coastlines to describe and categorize the current state of the art in addressing the upcoming challenges imposed by the climate change. The author, with a broad experience in coastal planning, reconsiders the current practise through case studies selected from the entries to the international competitions conducted in USA in the aftermath of the hurricanes Katrina (2005) on Louisiana’s coast, and Sandy (2012) on New York and New Jersey. The thesis uses a “research through design” methodology in order to analyse the landscape phenomena, model future scenarios and enhance the theoretical framework written on that topic.
Finally, the Jury is honoured to announce that The Second Manuel de Solà-Morales European Prize has been given to Renata Priore Lima, who wrote her doctorate under the supervision of Prof. Dr. Estanislau Roca, Universitat Politécnica de Catalunya. Entitled “PLUGIN. Interfaces urbanas en los nuevos centros lineales. El caso de la Avenida Paulista” (Urban Interfaces in new linear centers. Paulista Avenue case study), the thesis stands out by the choice of topic of collective space and linear centrality, which are timely and relevant in the current urban debate. The thesis describes the urban evolution of São Paulo, which allows to understand the determining factors of the Paulista Avenue's current urban form, as well as the different strategies enforced by the urban bylaws and the design criteria which contribute to a stronger integration between buildings and the city. This linear centrality of the Paulista Avenue is analyzed through its different layers (anthropological, activities, territorial aspects, infrastructural flows, and the architecture of the urban form, buildings and collective spaces). The work successfully addresses the topic in five chapters: The collective space as urban interface; Contemporary city axes and the linear centrality; Paulista Avenue and its transformation into a linear centre; Rules of new urban form in the Avenue; Paulista Avenue’s collective spaces architecture. The thesis combines clear written arguments with a wide graphic display including numerous plans, interpretative sections, conceptual diagrams, and original drawings, to conclude with the depiction of the ideas of “plugin”—the collective spaces that bring together buildings and public space—and the “urban interphase”—the contact surface mediating between the built form and the urban realm.

Such designerly form of analysis clearly fits in Manuel de Solà-Morales' intellectual legacy.
FOR 50 YEARS IT HAS BEEN POSSIBLE TO DO A PHD IN ARCHITECTURE AMONG URBAN PLANNERS

Josep Parcerisa
Professor, Department of Urbanism and Regional Planning, UOT
Coordinator of the Urban Planning PhD Program

All over the world, the PhD is the highest academic degree the university bestows upon people. As we all know, a doctorate is obtained by carrying out a research project called a Doctoral Thesis. This Thesis consists of an original piece of work conducted by the candidate, supervised by a tutor who guides the student and accompanies them when presenting and defending their research. It should also be well known, and understood as normal, that it is defended in a public session before a panel of doctors selected from those the scientific community deems to have the intellectual authority to commend or criticise the work. Once discussed, the university entrusts them with the decision to reject the work or accept it and qualify it.

The regulations that govern this whole procedure are relatively simple, and essential and secular traits of what these studies entail have been preserved. The doctorate is not a process attached to a school or faculty, unlike degree or master’s studies, which aim to teach, although nominally there is a Doctorate School that meets and coordinates the administrative processes. But it should not be confused with the others; in the doctorate, the focal point is the process of conducting a research project that is original and as such subject to significant interrogation and peculiarities linked to the fact it moves through delicate questions or with inherent uncertainties. Doctoral studies are full of informal processes with no guidelines.

The doctorate is, by tradition, the place where the university explicitly exercises the function of clearing, uncovering, advancing knowledge in all fields and adding new vocations and talents to research. In our country these matters are undertaken by, not only but principally, the university departments that are the usual basic structures for assigning professors according to their areas of knowledge. Essentially, whoever wants to write a thesis needs a doctor willing to supervise them and this often enables them to find the canvas of the right university research groups.

Through this first edition of the Handbook of the ETSAB, which is the school where urban planning theses are read at the UPC together with the ETSAV, it may be opportune to remember its often taken for granted that these basic matters are understood. And a few more. For example, since the UPC was founded there have been doctoral theses on urban planning for the PhD in Architecture. The Universitat Politècnica was a result of the reorganisation of the Catalan university system in the late 1960s that assigned the School of Architecture to it, the only one in Catalonia at the time, which had until then been part of the Universitat de Barcelona. Although situation throughout this half century has evolved, it has been quite stable. A Program has been created that identifies a consistent and consolidated field of research: urban planning. It is organised through the Department of Urbanism and Regional Planning, has the seals of excellence of the university administration and has a college of numerous doctors that guarantee its continuity. Most, although not all, of the doctoral candidates come from prior education in architecture. This reflects the weight of the urban planning studies in architecture teaching, which is much more significant than in engineering or sciences.

The doctoral studies have a secular continuity, but it is also true that in the field of architecture and engineering, in themselves, they are relatively recent given the traditionally unequal academic position of these studies within the university. How has the situation evolved with 50 years of experience?

In 1965, according to the bibliographic records, the School read the doctoral thesis of Marcial Echenique, an architect educated in Chile and later an important academic at Cambridge University. But at the time, doing a doctorate was exceptional. It was not until the 1970s that doctorates began to be read more frequently. The first, in 1974, by the architect Joan Busquets who defended Las “Coreas” de Barcelona supervised by Manuel de Solà-Morales before a
For 50 years it has been possible to do a PhD in Architecture among Urban Planners

JoSEP Parcerisa

panel consisting of Horacio Capel, geographer, and four architects: Manuel Ribas Piera, Fernando Terán, Rafael Moneo and the director. Three doctors from other universities and two from the UPC itself. This small amount of data highlights some characteristics that have remained constant throughout the years: since the beginning of the doctoral studies in urban planning, candidates trained in Barcelona and those from other universities have been welcomed, with the latter as the majority. Now, like then, or possibly even more, drawn by what is done here. The panels seek to call international expertise and open up the gaze to converging disciplines, when necessary. The topics of the more than 170 theses read in 50 years are very diverse, as are the interests of the supervisors and candidates, but there is a tendency towards work that seeks to reveal urban and territorial realities that are little, far from or poorly known at the hand of the powerful analytical instruments marked by urban planning teaching at the School of Barcelona. This circumstance is not alien to the fact that, also 50 years ago, a group of young teachers founded the Barcelona Urbanism Laboratory (LUB), the most influential active research group with the most academic continuity at the UPC.

In the beginning few theses were read. Only five were read in the 1970s. In the 80s this rose to 23, the same as in the 90s. But this number doubled in the first decade of the XXI century to 49. This second decade will close with more than 70 theses read and approved. Inwardly, the intense training of qualified teachers has shaped a staff of doctors that makes it possible to welcome the diverse orientations of those who seek this education in research. Today the department hosts research in the field of urban history and urban planning, land and landscape planning, the urban project and urban planning of cities, mobility and the metabolism.

The growth of the doctoral students is also an expression of an undisputable fact that has grown internationally: the doctorate is, in more and more countries, not merely an academic merit, but also a condition sine qua non for an academic career in universities. And that acts internally in two ways: it multiplies the candidates and converts the supervision into an educational action that is more and more regulated. In terms of administration, it results in two not insignificant questions: whoever wants to do a doctorate has to enrol first, as if they were going to do conventional studies, and then acquire the conditions and rights common to students. And from the moment they have enrolled, the university watches that they do not take too long. In other words, it sets the time in which results must be seen. It is important to admit that both features are very strange for the image of a relationship of trust between two people, the one who does and the one who guides, and goes deeper into unexplored territory with relationship protocols that the university leaves up to them.

But there are more changes that indicate the diversification of the meaning of research. Doctoral studies can be linked to the improvement of industrial processes and techniques in a broader sense. They can be directly operational and applied in view of the programs of companies, offices or public administrations. This more directly instrumental dimension of doctoral research is still unprecedented in our program but it will soon be a real possibility. Basic research or with theoretical ambition, research from primary sources... but also research that is directly applied.

All of these phenomena have given cause to develop new strategies for the preparation and training of young researchers. The most relevant are the Seminarios Internacionales en Investigación en Urbanismo (SIIU – International Seminars on Urban Planning Research) created by the Urban Planning Research Group of our Department. For more than 10 years they have been providing Spanish-speaking researchers an annual opportunity to meet and compare.

In the midst of so many changes, our program has maintained its own protocol for years. Intake to urban planning studies is marked by an introductory event that evokes the original meaning of the doctorate: before a representation of the college of doctors, candidates knock on the door and introduce themselves, backed by their supervisor, who is a colleague. The research topic is whatever the conversation between them centres upon. Seeking the light in that seed that one day will be presented in public, subjected to attention and will have to be defended to obtain the degree. Nothing more, nothing less...

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Institutional Academic Activities

Barcelona Tech, City and Territory.
– A day for debate
4 October 2018, 18.00 h
VENUE Barcelona School of Nautical Studies
At 6pm on 4 October, the conference hall of Barcelona School of Nautical Studies (Pla de Palau 18) hosted the conference entitled ‘Barcelona Tech, city and territory’. The event was attended by mayors, deputy mayors and councillors of Barcelona, Castelldefels, Manresa, Rubí, Sant Adrià de Besòs, Sant Cugat del Vallès, Terrassa, Vilanova i la Geltrú and Viladecans, the municipalities where the University is located.

Round Table – Venice Biennial
6 October 2018, 15.30 h
VENUE Venice (Spanish Pavilion)
WEB https://etsab.upc.edu/ca/noticies/historic-de-noticies/2018/taula-rodona-biennal-venecia

Open City – Barcelona Biennial of Thought
18 October 2018
VENUE Barcelona School of Architecture Conference Hall
PARTICIPANTS Carlo Ratti and Ricky Burdett
The world changes, the cities are transformed. Cities are the scenario for the many transformations that mark this change in period. Meeting points that unite diversities, opportunities, skill in innovation and creativity, but also conflicts and exclusions. Through proximity, cities have to resolve disruptions inherent in a globalised world. This is why the Open City Biennial of Thought wishes to connect debate on the role of the cities of today with the great challenges on contemporary society.

Metropolitan Suite
23 October 2018, 19.00 h (inauguration)
VENUE Espai Mercè Sala, TMB
On Thursday 18 October the doors opened to the Metropolitan suite exhibition at the Espai Mercè Sala of TMB. This exhibition leads the visitor through a series of rooms to view diverse metropolitan projects of various types and scales, made with different elements and types of materials.
I Crossover Week 1st Year

6 October 2018, 15.30 h
VENEU 5-9 November 2018
WEB https://etsab.upc.edu/ca/noticies/historic-de-noticies/2018/i-setmana-transversal-1r-curs

FUARIENS – 3rd Edition

9 April 2019, 9.30 - 14.00 h
VENEU Sala de Graus

The scheduled activities included highlights such as the industrial tutorials, that began at 9.30 in rooms PFC1 and PFC2 and were attended by the following companies:

Cement-concrete: Cémenx and Escofet, for projects with exposed concrete, concrete prefabs, GRC panels, pavements or urban furniture
Timber: Egoin and Thermochip, for projects with timber structures, wooden cladding panels
Aluminium: Technal, aluminium systems and carpentry
Ceramics: Inalco and Neolith, ceramic cladding, ventilated façades and large-scale ceramic technology (3x1)
Polymers: Ulma and Irpen, light prefabs and enclosures in polycarbonate
Sustainability: Tellus-Ignis, Lamp and Parex, energy systems, lighting and insulation for exteriors.

The conference continued in the Conference Hall from 12.00 noon with the presentation of the communications and the awards for the innovation competition; it concluded with the lecture architecture versus reinvention by the architect Patxi Mangado.

Book Fair – Sant Jordi

23 April 2019
VENEU Barcelona School of Architecture Entrance hall
WEB https://etsab.upc.edu/ca/noticies/historic-de-noticies/2019/fira-del-llibre-sant-jordi

Sant Jordi at the Library

24 April 2019, 14.00 to 15.00 h
VENEU Oriol Bohigas Library, Barcelona School of Architecture

Discover treasures at Barcelona school of Architecture library. A route through the lesser known spaces and collections: the antique collection and the graphic archive. The participants were given a reproduction of drawings from the archive.

And what are you reading? Recommendations for books via Instagram, adding the tags #inspiratalabiblioteca #etsabelleix #santjordi2019 and mentioning @bibliotecaetsab.
Concert with choir and orchestra

11 May 2019, 18.00 h
VENUE St. Feliu de Llobregat Cathedral

PROGRAM
Kōji Kondō, The Legend of Zelda Suite (orchestration by Albert de la Fuente)
Johannes Brahms, Variations on a theme by Joseph Haydn, Op. 56a
John Towner Williams and George Walton Lucas, John Williams is the man
(arranged by Mister Tim)
Johann Michael Haydn, Requiem in doh minor “Missa pro defuncto Archiepiscopo
Sigismundo” MH155. The first time this Requiem was heard in Spain was
by the Architecture Choir and the Orchestra of Barcelona Tech on 2 Novem-
ber 2000
Orchestra of Barcelona Tech - Architecture Choir
Núria Costa Mirada, soprano; Mei Ferrer Guasch, contralto; Hector Ortín
Isern, tenor; Damià Torres Latorre, bass; Lluís Carné i Miguélez and Lluís
Perernau i Campmany, conductors

Park(ing) Day Barcelona

20 September 2019
VENUE Barcelona WEB https://parkingdaybcn.org/

Park(ing) Day is an annual event that takes place in various cities all over
the world. This is an action in a city for performance, education and revindi-
cation, where diverse entities, collectives and citizens in general temporari-
ly transform public parking spaces into parks, gardens and other types of
public space with the aim of revindicating a model of city focused on people
and the environment.

The co-creation workshop Taller Espacios Abiertos at a scale of 1/1, organ-
ised by the lecturer Bruno Sève, with the Department of Architectural
Representation and the ESFA (Social Space for Training in Architecture),
invites you to participate in park(ing) day Barcelona.

Alumni-Barcelona Tech Award 2019 – Barcelona Tech-Spirit Conference

4 July 2019, 19.00 h
VENUE Barcelona Tech School of Nautical Studies
The ex-student of our School, Eva Franch i Gilabert was chosen as Alumni-
Barcelona Tech for 2019, by the various groups of ex-students who are part
and organise themselves within Barcelona Tech. The prize was awarded by
the Chancellor of our University during the Barcelona Tech-Spirit Conference.
Franch has been curator and executive director of the Storefront for Art
and Architecture in New York, a not-for-profit association committed to the
most innovative methods in architecture, art and design. She has received numerous awards and grants, and her work is exhibited internationally at the FAD of Barcelona, the Architecture Biennial in Venice, the Vitra Design Museum and the Architecture Biennial in Shenzhen, among others. She was also the director of London’s Architectural Association between 2018 and 2020, the oldest independent school in the UK and an international leader due to both its teaching innovation and the recognised professional careers of its ex-students, who include Rem Koolhass, Richard Rogers, Zaha Hadid and David Chipperfield.

**Ignasi de Solà-Morales.**

**Architecture and Critique**

*20 February 2019 – 12 May 2019*

**Venue** Palau de la Virreina  **Curators** Carmen Rodríguez and Pau de Solà-Morales

The career of Ignasi de Solà-Morales (Barcelona, 1942 – Amsterdam, 2001) exemplifies some of the most significant traits of a certain architectural tradition closely linked to Barcelona and characterised by uniting, within the same theoretical corpus, thought on culture, heritage and the city. From academia, through history and architectural theory, or as a catalyst for diverse practices and generations, Solà-Morales was, for almost 30 years, a model of the complicated equilibrium between professional practice, critical production and the impact on the public sphere.

This exhibition presented, for the first time in a museographic context, a broad selection of materials from the architect’s personal archive. It includes working documents, notes and conferences, dialogues and projects—the majority unpublished—that are not only testament to an intellectual biography, but also the development of architecture in Catalonia during the last three decades of the XX century, of the fabric of institutions that arose in that period and the links with international currents.

**Imagining the Mediterranean House.**

**Italy and Spain in the 50s**

*2 October 2019 – 12 January 2020*

**Venue** ICO Museum  **Curator** Antonio Pizza  **Web** https://www.fundacionico.es/exposiciones/imaginando-la-casa-mediterranea-italia-y-espana-en-los-anos-50/

“We do not need a new way to build, we need a new way to live.”

(Bernard Rudofsky, 1938).

The exhibition Imagining the Mediterranean house. Italy and Spain in the 50s centres on the topic of “the Mediterranean house”, investigating its operational presence in a defined historical setting: the 50s.
Action! The value of the experience
Dialogue between Architecture and Cinema in the Classroom

27 June 2019, 20.00 h

VENUE Mies van der Rohe Pavilion
PRESENTATION BY Maria Mauti, Antonio Pizza and Anna Ramos
PARTICIPANTS Fernando Álvarez, Gerardo García-Ventosa, Angelo Gioé, Estanislau Roca, Felix Solaguren, Benedetta Tagliabue and the students of the workshop "Architecture and cinema"

WEB https://miesbcn.com/es/calendario/accio-el-valor-de-la-experiencia-dialeg-entre-arquitectura-i-cine-a-laula/

The public presentation and debate held under the title "Action! The value of the experience" in the Mies van der Rohe Pavilion is the closing act of Barcelona School of Architecture 2019 workshop "Architecture and cinema" by the lecturer Antonio Pizza, the cinema director Maria Mauti, and the photographer Ciro Frank Schiappa. It is a workshop for audiovisual production in which the students create a short on a work of architecture by Enric Miralles and Benedetta Tagliabue: the Gas Natural tower in Barcelona.

ETSAB Architectural Paraninfo*

Barcelona School of Architecture (ETSAB) accumulates in its archives’ fonds signs and evidences of talented people that took part in its academic activities throughout its history. Its international standing comes from a double connection: with its city, Barcelona, and with reality, understood as each and every one of its present moments. Between them, excellence, research and the culture of the project and technological solutions are developed, in an independent or participatory manner, at times, by public or private external agents.

With the aim to properly safeguard all this heritage, and taking into account the triple peculiarity of Barcelona School of Architecture—the potential offered by Barcelona School of Architecture Archive Fonds, the synchrony and mutual influence between the city and the School, and the connection between the internal talent and excellence of people and products from the School and the external talent and excellence of institutional, professional and industrial agents—its management team, following the proposal of the assistant management of Heritage and Culture, launched in 2019 a specific project to reinforce the protection and advertising of this heritage, as well as promoting accessible, sustainable and permanent spaces for visibility and production.

The ensemble of these spaces and the connections derived have been named “ETSAB Architectural PARANINFO”.

(*) Antoni Gaudí, Paraninfo, Final Thesis, ETSAB, 1877
Barcelona Campus of Architecture

17, 18 July 2019

ACTIVITIES 2019
Barcelona Campus of Architecture first edition, opened by the Honourable Chancellor of Barcelona Tech, Francesc Torres, took place on the 17 July 2019 in the boardroom of Barcelona Tech School of Architecture and had the support and active involvement of representatives of various institutions (Barcelona City Council, Government of Catalonia, Governing Board of the Institutes of the Architects of Spain, the Institute of the Architects of Catalonia, and the Ministries of Development and Culture from the Government of Spain) as well as industries and organizations of architectural services (Cosentino, Cricursa, Escofet, ASEMAs), called to participate shortly in the setting-up of the ETSAB Architectural Paraninfo Consortium.

The edition was organized in two successive days, 17 and 18 July 2019. The first day was devoted to the presentation and open discussion on the activities, agents, government system and resources management anticipated for the “Architectural Paraninfo”, as well as to the definition of the project itself through the presentations given by Valentín Guasch (Barcelona Tech), Isabel Martínez (Cosentino) and Josep Marcé (expert in institutional management), as experts.

The second day was devoted to debate about the current synchrony of Schools of Architecture with the present time, about the heritage valuation of the academic or professional archives, and of excellence as a permanent demand. The heads of school of ETSAB UPC, Félix Solaguren-Beascoa; the ETSAM UPM, Manuel Blanco, and Confluence-Lyon / Paris, Odile Decq, intervened in the conference in which the Dean of the ETSAV, Albert Cuchí, joined as a guest. The conferenced was closed with a presentation by Odile Decq, broadcasted in open streaming.

During the second day, the team of work and debate was completed with the presence of Vice Chancellor of Knowledge Transfer and Innovation of Barcelona Tech, Jordi Berenguer; Vice-deans of ETSAM UPM, Jesús Aparicio and Javier Girón; Vice-deans of ETSAB and coordinators of the conference, Elena Fernández Salas and Daniel Garcia Escudero; Vice-deans of ETSAB, Enric Granell, Belén Onecha, Joaquim Sabaté, Carolina B. Garcia-Estenez and Héctor Mendoza; the ETSAB School Manager, Cristina Torné; the Barcelona Tech department directors Cristina Torné; the Barcelona Tech department directors Cristina Jover (PA), Julián Galindo (UOT), Pilar García-Almirall (TA), Fernando Álvarez (THATO) and Lluís Giménez (RA); the Gaudí Chair director, Juan José Lahuerta, and professors Maria Rubert de Ventós, Eduard Bru, Pere Joan Ravell, Alberto Peñin, Xavier Monteyes, Antonio Millán and Antonio Pizza, among other visiting professors such as Barcelona Tech former Vice Chancellor, Francesc Fayos, or Barcelona School of Architecture director of former students, César Díaz. The technical management of the campus felt under the care of Barcelona School of Architecture and Architectural Paraninfo external relations coordinator, Félix Arranz, that acted as host and moderator both days.

Barcelona’s Agora of Architecture

December 2019

Barcelona’s Agora of Architecture first edition, which is the name given to autumn and winter activities organised by the ETSAB Architectural Paraninfo, was put together in two calls for talks.

Talk. Reality as present time

The session took place on the 3 December 2019 in the Conference Hall of Barcelona Tech School of Architecture and set out a debate around reality as present time.

This aspect of reality can be identified in the contemporary context, and in its connections with architecture and spaces of coexistence. Its presence inside the Schools of Architecture and Institutes of Architects will also be debated. Xavier Monteyes and Atxu Amann took part in this talk.

Xavier Monteyes is professor at Barcelona Tech’s Department of Architectural Design, coordinator of the research team HABITAR and author to several books and articles on architectural critique.

Atxu Amann is PhD in Architecture, urban planning technician, and lecturer and researcher at the Technical University of Madrid; founder of Temperaturas Extremas Arquitectos S.L.P.
Talk. Dissecting (commitments with) reality

The session took place on the 9 December 2019 in the anatomical amphitheatre of the Reial Acadèmia de Medicina de Catalunya (Royal Institute of Medicine of Catalonia, at 47, Carmen Street, Barcelona) and set out a debate/dissection about the contemporary commitment with reality, focusing on the spaces of coexistence.

The Royal Institute Chancellor Josep Antoni Bombí, the Barcelona School of Architecture Dean of School Félix Solaguren-Beascoa, and the ETSAB Architectural Paraninfo Coordinator Félix Arranz acted as hosts.

Open Arms (Gerard Canals and Mar Sabe) and Arquitectes de Capçalera (GP Architects Ibon Bilbao and Josep Bohigas) took part on this session with Fátima Diz as moderator and the involvement of Avar Agustí, Sandra Bestraten, Albert Biete, Pablo Feu and Gaspar Maza in the front row.

Open Arms is a nonprofit NGO whose main goal is to protect with its presence people trying to reach Europe crossing open waters away from armed conflicts, persecution or poverty.

Arquitectes de Capçalera was born in a tumultuous period at Barcelona Tech School of Architecture when students took the initiative to request new teaching programs, closer to reality, in a time of deep crisis.

Fàtima Diz graduated from Barcelona Tech School of Architecture with a final thesis named: Proyect on board • Applying project theory to the design of a boat.

Alvar Agustí García-Navarro is PhD in Medicine and Surgery (UB), chairman at the Instituto Clinic Respiratorio of Hospital Clínico de Barcelona and head of the Inflammation and Repair in Respiratory Diseases team at the IDIBAPS.

Sandra Bestraten is architect, lecturer at Barcelona Tech and UIC Schools of Architecture and cofounder of the Bestraten Hormias Arquitectura S.L.P. practice, specialising in rehabilitation and sustainability. She is Chairwoman of the Barcelona’s area Institute of the Architects of Catalonia.

Albert Biete is PhD in Medicine (UAB) and specializes in Oncology and Radiotherapy. He is professor of Radiology and Master’s of Physics (UB), Chairman to Barcelona Technical Committee of the Spanish Association Against Cancer and supporter of the SAAC Scientific Foundation (Madrid).

Pablo Feu is a lawyer, expert in urban planning and housing rules, and member of the advisory council of Barcelona Metropolitan Housing Observatory.

Gaspar Maza is an anthropologist, PhD in Social Anthropology (URV, 1999), with his thesis: Producción, reproducción y cambios en la marginalización urbana. La juventud del barrio del Raval de Barcelona 1989-1998. BA in Geography and History (1988) and Postgraduate Studies in Social Education (1989) from Universitat de Barcelona. He worked as a Social Educator at Ciutat Vella district for Barcelona’s city council between 1987 and 2004. He is lecturer in Universidad Rovira i Virgili since 2005, and since 2013 he is also lecturer in the Department of Psychology and Education and Sports Sciences in Universidad Ramon Llull.

ACTIVITIES 2020

DocuTEC space (Archive Docs)

Spring Term 2020

Launching of the documentary collections: “A punts (interiors)” and “Interiors ETSAB: Catedràtics”

“A punts (interiors)” is a collection of documents that compiles for its reading various experiences, short stories, lessons, nuances, critics, questions and situations of people that are or have been part of the human, academic and professional community of Barcelona Tech School of Architecture.

#001 Plecnik in Ljubljana (by Jordi Badia) (CA)
#002 Air in the Streets (by Maria Rubert de Ventós) (ES)
#003 Constructive Configuration and Mechanical Behaviour of Modernist Cupolas at Sant Romà de Lloret de Mar Church (Girona, Spain) (by Javier Sanz Prat) (ES)
#004 Restoration Managerial Plan of Gaudí’s Casa Batlló, a Before and an After (by Belén Onecha, Mireia Bosch, Joan Alona and Alicia Dotor) (ES)
Tributes and Awards
+ After Manel (del Llano)’s death (by “one of his classmates”) (CA)
+ A Silent Teaching (in memoriam Carles Martí Aris) (by Jordi Ros) (CA)
+ Fernando Álvarez from memories (by Enrique Granell) (ES)

“ETSAB Interiors: Catedràtics” is a collection of lectures and debates that, firstly, with an open access live emission—through the Paraninfo Channel in YouTube—and, then, compiled in video format, gathers the ETSAB working professors positioning in education, research and the professional practice.

#001 05/16/2020 Maria Rubert de Ventós, professor of the Department of Urbanism and Regional Planning of Barcelona Tech School of Architecture. Panel: Félix Solaguren-Beascoa, Dean of Barcelona Tech School of Architecture; Eduard Gascón, associate professor of the Department of Architectural Design; Eulàlia Gómez-Escoda, lecturer of the Department of Urbanism and Regional Planning; Irene Pinyol, degree student at Barcelona Tech School of Architecture, and Félix Arranz, assistant lecturer of the Department of Architectural Design, as moderator.

#002 05/30/2020 Eduard Bru, professor of the Department of Architectural Design at Barcelona Tech School of Architecture. Panel: Daniel García-Escudero, head of studies at Barcelona Tech School of Architecture; Jaime Coll, associate professor of the Department of Architectural Design; Marina Cervera, lecturer of the Department of Urbanism and Regional Planning; Belén Dávila Parmigiani, degree student at Barcelona Tech School of Architecture, and Jaume Valor, associate professor at the Department of Architectural Design, as moderator.

#003 07/14/2020 Josep Roca, professor of the Department of Architectural Technology at Barcelona Tech School of Architecture. Panel: Joaquim Sabaté, professor of the Department of Urbanism and Regional Planning and Vice-dean of Postgraduate Studies; Helena Coch, professor of the Department of Architectural Technology; Ernest Redondo, associate professor of the Department of Architectural Representation; Toni Vidal, assistant lecturer of the Department of Architectural Design; Yasmine Gil, master’s student at Barcelona Tech School of Architecture; Carlos Marmolejo, associate professor of the Department of Architectural Technology, and Félix Arranz, assistant lecturer of the Department of Architectural Design, as moderator.
**Consortium of the ETSAB Architectural Paraninfo**

To activate the gradual availability of spaces and situations that allow to see and to take advantage of the convergence of talent and excellence inside and outside the School, the management team at Barcelona School of Architecture has fostered the creation of an operational figure of mixed public/private character with the support and advice of expert and governmental sections of Barcelona Tech.

This figure will be constituted by Barcelona School of Architecture and public and private, institutional, corporate and industrial agents from the construction, and urban and regional planning sectors, allied to Barcelona School of Architecture projects and objectives related to this aim. This figure, named “ETSAB Paraninfo of Architecture Consortium”, will be subject to a mission, values, and vision defined and operational in accordance with a short-, medium- and long-term planning of objectives and actions.

The primary mission of ETSAB Paraninfo of Architecture Consortium is to contribute to the objective resolution of inventorying, cataloguing, conserving and digitalizing of all ETSAB archive funds and disseminate and profit from the resulting showings, catalogues and exhibitions, as well as the various products generated and added each year with the highest quality and respect. This, with the aim to relocate the ETSAB—and, by extension, all schools of architecture—as an undeniable urban cultural engine: a Barcelonian and European model.

On the other hand, and also imperatively, it is a core mission of the ETSAB Paraninfo of Architecture Consortium fund to manage, connect, give form and content to the joint work and collaboration of institutional, professional and industrial agents that will share the credit with Barcelona School of Architecture for the project and exploitation of the spaces and situations generated.

In short, it comes to consolidate, guarantee, share and take advantage of the potentialities of the concept of “Barcelona’s Architecture” in its documented, historic and contemporary synchrony, internal and external, with Barcelona School of Architecture; a peculiar synchrony, locally and internationally recognized and extensively documented, proof of the talent and excellence in architecture.

The project of the ETSAB Paraninfo of Architecture and the future consortium have been informed, participated or supported in their initial actions by the following entities and institutions: Barcelona Tech, the Ministry of Development, the Ministry of Culture, the Government of Catalonia, Barcelona City Council, the Higher Council of the Institutes of the Architects of Spain, the Institute of the Architects of Catalonia, Cosentino, Cricursa, Escofet and ASEMAS.
DHUB installations where Antoni Gaudí’s objects from ETSAB UPC archive are transferred by a temporary loan

Gaudí’s Chair, the Library and the archives of Barcelona School of Architecture (ETSAB) from Barcelona Tech (UPC) gather an inherited collection of great value on Antoni Gaudí and the teaching of architecture and urban planning over the 19th and 20th centuries. This collection is made of 100,000 drawings, projects, documents, photos, objects and a set of antique bibliography from the 16th to the mid-20th century.

Gaudí’s Chair and the ETSAB Library work together on the Gaudí Digital Archive project, focused on the creation of an open access digital platform that will gather the School’s inherited collections, including contents related to Antoni Gaudí’s work and the architecture, urban planning and techniques of the 19th and 20th centuries.

SUMMARY OF ACTIVITIES 2018-20

Inherited collections

Move of Gaudí Chair objects to Barcelona Design Museum

Gaudí Chair has transferred by a temporary loan 37 objects—between ceramics, doors and other ornamental elements from various buildings by Antoni Gaudí—to Barcelona Design Museum (DHUB). The transfer has taken place through a gratuitous bailment signed by Barcelona Culture Institute and UPC. The DHUB is currently preparing the reorganisation of its collections to include these pieces within the permanent exhibition.
Dissemination of background heritage

**Collaboration in exhibitions**

**October 2018-March 2019**

**EXHIBITION** Gaudí and the Amsterdam School  
**VENUE** Museum Het Schip, Amsterdam  
**ORGANISED BY** Aurea Cultura i Art

**June-September 2019**

**EXHIBITION** Jujol. L’arquitectura del color  
**VENUE** Palau Guell, Barcelona  
**ORGANISED BY** Sant Joan Despí Town Council

**October 2019-January 2020**

**EXHIBITION** Imaging the Mediterranean Home. Italy and Spain in the 50’s  
**COMPETITION PROJECT** Spanish Architecture in International Media: Publications, Exhibitions, Congresses. 1940-1975  
**FINANCED BY** The Ministry of Economy, Industry and Competitiveness (HAR2017-85205-P)  
**COORDINATED BY** Antonio Pizza (ETSAB-UPC)  
**ORGANISED BY** Museo Fundación ICO, Madrid

**Other Activities**

**Presentation**

26 February 2019  
**BOOK** Domènech i Montaner: un home universal  
**BY** Lluís Domènec Girbau  
**WITH THE COLLABORATION OF** Carolina B. García-Estévez, Antoni Ramon and Carmen Rodríguez  
**ORGANISED BY** ETSAB Culture

During this event, a selection of photographs was showed that belong to the collection of old photographs of School field trips and outings that were included in an inventory and digitalised as part of the Gaudí Digital Archive project.

**Conference**

30 April 2019  
Amsterdam School: materialised ideals,  
**BY** Laura Lubbers and Nikki Manger, from the Het Schip Museum in Amsterdam  
**ORGANISED BY** Gaudí Chair and professors of the degree course: History I. Barcelona School of Architecture (ETSAB)

**Conference**

6 September 2019  
Josep Maria Martino. Footnotes  
**BY** Carmen Rodríguez (researcher at Gaudí Chair). Terramar Garden-City Centenary. 1919-2019  
**ORGANISED BY** Grup d’estudis Sitgetans. Sitges Town Council

**Visits to the Background Heritage**

**November - 3 December 2018**  
**SEMINAR** Park Güell: Politics, Ideology and Symbol  
**VENUE** MUHBA-Museu d’Història de Barcelona. Park Güell

**24 April 2019**  
Open Day Sant Jordi - Discover the Library’s Treasures and Barcelona School of Architecture Archives  
**VENUE** MUHBA-Museu d’Història de Barcelona. Park Güell

**17 May 2019**  
Open Day Architecture Week

**Conferences by the Chair Director**

9 October 2018  
Gaudí and Matter, within the exhibition Gaudí and the Amsterdam School  
**VENUE** Museum Het Schip, Amsterdam

29 October 2018  
Modernist Architecture: The Conservative Breakdown  
**VENUE** Museo Nacional Centro de Arte Reina Sofia, Madrid

5 November - 3 December 2018  
**SEMINAR** Park Güell: Politics, Ideology and Symbol  
**VENUE** MUHBA-Museu d’Història de Barcelona. Park Güell

**9 January 2019**  
**CONFERENCE** Park Güell: Politics, Ideology and Symbol  
**VENUE** MUHBA-Museu d’Història de Barcelona. Park Güell

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**17 May 2019**  
Open Day Architecture Week
MASTERS AND BSC STUDENTS

Altuning Pro Award, Regional Council of Gipuzkoa

27 December 2018

Mikel Berra Sanin, from the BSc Architecture at Barcelona School of Architecture was awarded the prize Altuning pro, bestowed by the Regional Council of Gipuzkoa for his project Gipuzkoa ibaiz ibai. He was also awarded a professional practice grant from Fundació Arquia, in recognition of his academic record.

HNA Grants 2018

15 October 2018

On the 15 October 2018 the jury for the first 2018 HNA Completion Grants was constituted. It agreed on awarding 2 €500 additional grants to students attending any of the thematic workshops as well as a €350 grant to each thematic workshop and each branch of the qualifying Master’s in Architecture.


10 May 2018

Lorena Ruzafa Tur, student at Barcelona School of Architecture, was awarded the second prize for her project: Recuperación de las Salinas de Formentera (Recovery of Formentera’s salt mines).

The jury wants to highlight the excellent analysis of an anthropomorphic environment with a subtle and humble architecture that becomes embedded in the territory to regain its historic and scenic value.
Explotam Son Busquets Competition

25 January 2019

WEB https://jovesarquitectesmallorca.org/

The jury of the EXPLOTAM SON BUSQUETS competition, organised by Young Architects from Mallorca agreed on awarding the first prize ex-aquo to two proposals by students from Barcelona School of Architecture.

The aim of the competition is to draw attention to the potential value of “la caserna de Son Busquets” within the collective imaginary of Palma’s citizens and to gather non-binding proposals to request the city council a modification of the “Pla Especial 2011” (2011 Special Urban Plan) to set up the rules of a new urban planning and city model.

Proposal with the motto: “Quedam a Son Busquets?”, submitted by Miquel Ramon and Maria del Mar Amengual
Proposal with the motto: “Teixim Son Busquets!”, submitted by Carles Marquès.

Pladur Competition – 29th Edition

7 June 2019

WEB https://concursopladur.com/ediciones-anteriores/#1603286179754-b29f37c0-68c1

The 7 June 2019 Pladur celebrated the 29th edition of its traditional competition on constructive solutions at the Quinta de Jarama (Madrid) venue. This is the most appreciated and older competition within the sector. It is a reference contest for universities and Schools of Architecture in Spain and Portugal.

With the motto: “Architecture to live”, Pladur has focused this time in collective housing proposals of higher quality standards and adapted to current society in their structure and functionality to move closer to current and future spaces.

The prize to the best architectural solution of this edition was awarded to Barcelona School of Architecture and the team of students made up by Germán Bosch, Gonzalo Marjalizo and Javier Olacia.

Llum BCN – ETSAB’s Vibe Cast

14-16 February 2020

WEB https://etsab.upc.edu/ca/noticies/historic-de-noticies/2020/copy_of_llum-bcn-2020

STUDENTS Sara Camargo, Marta Elena Constansó, Jorge De Jorge, Guillem Fernández, Albert Ferraz, Helena Gallego, Miquel Giménez, Cristina Mayench, Judit Merrerés, Eric Moya, Núria Rodriguez, Xuan Yin, Miouel Pérez and Maroua Ben
The jury of this year’s edition of the 2020 Llum BCN fest agreed on awarding the first prize ex-aequo to the installation Vibe Cast submitted by a team of students from Barcelona School of Architecture tutored by professors Carles Sala and Relja Ferusic, jointly with the project Phosphens by BAU Centre Universitari de Disseny.

You can view the news in Barcelona Television, and the space they created in Barcelona School of Architecture webpage (https://etsab1.upc.edu(extra)/llumbcn2020/index.html). More news in the newspapers Ara, La Vanguardia and El Punt Avui, as well as at Corporació Catalana de Mitjans Audiovisuals (Catalan Audiovisual Media Corporation).

SPORTS

Spanish University Sports Championship

6-9 May 2018

6-9 May 2018

web https://www.upc.edu/ca/sala-de-premsa/noticies/medalla-de-bronze-per-equip-de-vela-de-la-upc

In 2018 convocation of the Spanish University Sailing Championship, that took place at the Royal Yacht Club of Calpe, Barcelona Tech’s crew was awarded the bronze medal. The team was composed by students Elias Aretz and Jorge Martinez Doreste from Barcelona School of Nautical Studies, Fátima Diaz and Jaime Menescal from Barcelona School of Architecture and Juan Gómez from Barcelona School of Civil Engineering.

The Spanish University Sports Championship is annually called by the High Council of Sports in 17 sport modalities, among which is sailing, organised by Valencia University. In this year’s inter-university regatta, a total of 12 Spanish universities with their Tom28 boats competed during four days in two qualifying regattas and a last day of finals.

Barcelona School of Architecture in the Media from September 2018 to August 2019

Highlights of appearances in the media:

Xavier Monteys, “L’autoconstrucció i el Tercer Paisatge,” El País (ed. Catalunya), October 3, 2018

A. Lladó, “La ciutat no és mai un projecte acabat: entrevista a Carles Muro,” La Vanguardia, October 6, 2018

Suso Souto, “Chipperfield reunirà en Ribeira a arquitectes de universitats,” El País (ed. Catalunya), October 14, 2018

Xavier Monteys, “Open mind!,” El País (ed. Catalunya), October 26, 2018

Natàlia Vila, Núria Juanico, “Totes les vides possibles de les rondes, a debat,” Ara, October 21, 2018

Xavier Monteys, “Arquitectura a la col·lecció,” El País (ed. Catalunya), October 14, 2018

Xavier Monteys, “‘Totes les vides possibles de les rondes, a debat,” Ara, October 21, 2018

Xavier Monteys, “‘Open mind!,” El País (ed. Catalunya), October 26, 2018

Xavier Monteys, “‘Totes les vides possibles de les rondes, a debat,” Ara, October 21, 2018

Xavier Monteys, “‘Open mind!,” El País (ed. Catalunya), October 26, 2018
Marta Ricart, “Una ciudad igual pero totalmente distinta,” Magazine La Vanguardia (ed. Catalunya), January 6, 2019

Xavier Monteys, “Proteger i servir,” El País (ed. Catalunya), November 22, 2018

Enric Tintoré, “La mobilitat sostenible exigeix el reforç del transport públic,” La Vanguardia, November 25, 2018

“Van der Rohe i l’arquitectura per transformar el territori,” Diari de Girona, February 1, 2019

Antoni Ribas, “Publicar arquitectura després del crac de la construcció,” Ara, February 2, 2019

Que es faci la llum a la ciutat,” La Vanguardia, February 15, 2019

Xavier Monteys, “Adaptar-se o morir,” El País (ed. Catalunya), December 7, 2018

Carles Colla, “Les 1.463 reencarnacions de BCN,” El Periódico (ed. Catalunya), December 11, 2018

Julián Galindo, Antonio Mora, “Humanitzar la Via Laietana,” El Periódico (ed. Catalunya), December 20, 2018

Xavier Monteys, “Reivindicació i bellesa,” El País (ed. Catalunya), February 17, 2019

Xavier Monteys, “Passeigs dissuasius,” El País (ed. Catalunya), March 16, 2019

Lluís Benavides, “Llum BCN torna a pintar de colors el Poblenou,” El Periódico (ed. Catalunya), February 16, 2019

Xavier Monteys, “‘Humanitzar la Via Laietana,’” El Periódico (ed. Catalunya), February 16, 2019

Antoni Ribas, “Publicar arquitectura després del crac de la construcció,” Ara, February 2, 2019

Que es faci la llum a la ciutat,” La Vanguardia, February 15, 2019

Carmen García, “Nuevos grados y másteres en Ensenyament y Futura,” El Mundo (ed. Catalunya), March 20, 2019

Carmen García, “Nuevos grados y másteres en Ensenyament y Futura,” El Mundo (ed. Catalunya), March 20, 2019

J. Ángel Montañés, “Una semana con Gaudi,” El País (ed. Catalunya), March 25, 2019

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J. Ángel Montañés, “Una semana con Gaudi,” El País (ed. Catalunya), March 25, 2019
Llátzer Moix, “Del gris al verd,” La Vanguardia, March 30, 2019
Xavier Monteys, “Quatre vies,” El País (ed. Catalunya), April 11, 2019
Isaac Pons, “L’arquitectura s’alimenta de totes les arts,” Diari de Menorca, May 4, 2019
Ignacio Oroño, “La història d’Europa en 5.000 m2,” La Vanguardia, April 16, 2019
José Luis González, “La millor restauració, el ‘dov’ era e com ’era,’” Ara, April 17, 2019
Xavier Monteys, “Temps de premis,” El País (ed. Catalunya), June 1, 2019
Ignacio Oroño, “La història d’Europa en 5.000 m2,” La Vanguardia, April 16, 2019
Maria Rubert, “Llista per l’estiu,” El Periódico (ed. Catalunya), June 10, 2019
Elsa-Bruny, “Portes obertes,” Time Out Barcelona, May 9, 2019
Lourdes López, “Ellas diseñan el futuro,” El Mundo (ed. Catalunya), May 15, 2019
Xavier Monteys, “Un lloc ‘exemplar’,” El País (ed. Catalunya), May 18, 2019
Erica Aspas, “L’art de viure i construir,” Time Out Barcelona, May 9, 2019
Maria Rubert, “Llista per l’estiu,” El Periódico (ed. Catalunya), June 10, 2019
Barcelona School of Architecture in the Media
from September 2019 to August 2020

Highlights of appearances in the media:

Joan Lluís Zamora, “Vicente Sarrablo y Lluís Pinardell, desarrolladores de Flexbrick,” AFI, October 1, 2019

Albert Crispi, “Filial de SEAT en Barcelona 1957-1965,” AFI, October 1, 2019

Félix Solaguren-Beascoa, “No hay recursos,” La Vanguardia (Opinión), October 10, 2019

Laia Quintana, “ICAL 2019: futuro prometedor de la luz artificial,” iCandela, December 1, 2019

Xavier Monteys, “Museu, mausoleu, CAP,” El País (ed. Catalunya), December 4, 2019

FP, “Dos despàsats d’arquitectes de Barcelona projectaran l’edifici de radioteràpia de Granollers,” El 9 nou, December 9, 2019
Laura Rosel, “Hem perdut la ciutat com a concentració de coneixement i tolerància: Entrevista a Eva Franch,” Ara, January 1, 2020

Xavier Monteyts, “Cocinas urbanas,” El País (ed. Catalunya), January 1, 2020

Isaac Pons de Rosa, “Entrevista a Josep Mascaro i Català,” Menorca, January 10, 2020

Xavier Monteyts, “¿Tenemos los museos bien puestos?,” El País (ed. Catalunya), February 5, 2020


Laura Rosel, “Questionari a Josep Bohigas,” Ara (Setmanal), March 29, 2020

Judith Vinyes, “La llum del Poblenou,” El Quinze (Público), February 6, 2020

Xavier Monteys, “Cocinas urbanas,” El País (ed. Catalunya), January 1, 2020

L. Benavides, P. Castan, “El carril bici enrespa el debat de la via laietana,” El Periódico (ed. Catalunya), February 15, 2020

Sergi Doria, “Fallece Arnau Puig, superviviente de Dau al Set, a los 94 años,” ABC, March 30, 2020

José Ángel Montañés, “Fallece Arnau Puig, último representante del mítico Dau al Set,” El Periódico (ed. Catalunya), March 30, 2020

Maria Palau, “El llegat, Salvat,” El Punt Avui, March 30, 2020

Xavier Monteys, “Pasos virtuales?,” El País (ed. Catalunya), March 27, 2020

Laura Rosel, “Qüestionari a Josep Bohigas,” Ara (Setmanal), March 29, 2020

J.V., “Llums i ombres,” El nou (Ed. Osona), February 21, 2020

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Shelley McNamara, “Cinco mujeres premiadas con el Pritzker,” ABC, March 14, 2020

Tara Sabri, “Fachada Unitized que genera Energía con Biomasa,” AFI, April 1, 2020

Xavier Monteys, “La gente diseña,” El País (ed. Catalunya), April 2, 2020

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Félix Solaguren-Beascoa, “La cintra s’ha trençat,” La Vanguardia (Opinión), May 2, 2020

Xavier Monteys, “Una primavera universitària,” El País (ed. Catalunya), July 1, 2020

R.L. Vargas, “Entrevista a Lluís Comerón,” La Razón, June 10, 2020

José Ángel Montañés, “La Torre Bellesguard de Gaudí crece,” El País (ed. Catalunya), August 12, 2020

Silvia Angulo, “Barcelona després de la pandèmia,” La Vanguardia, April 27, 2020

Anatxu Zabalbeascoa, “Carlos Martí Arís, maestro discreto de la arquitectura,” El País, May 4, 2020

Xavier Monteys, “Preservar el olvid,” El País (ed. Catalunya), May 6, 2020

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Maria Membrives, “Ciutats per respirar,” El Punt Avui, August 20, 2020

Diego Escolano, “Sistemas de Protección Solar Dinámicos – SPSD,” AFL, June 1, 2020

Jordi Ros, “Un magisteri silent,” Ara (Opinión), May 9, 2020

Xavier Monteys, “Notes per a un premi,” El País (ed. Catalunya), May 22, 2020
Reporting from the Archive: Almost 150 Years Training Architects in Barcelona

The first design classrooms at Barcelona School of Architecture, at the Central University Headquarters, designed by Elías Rogent (1821-1897), first Dean of School (1875-1889). Brangulí Collection, National Archive of Catalonia, ANC1-42-N-9905, ca. 1920

Students working at the new Barcelona School of Architecture, opened in Diagonal Campus in 1961, and designed by Josep Maria Segarra Solsona. Francisco Gallés Miquel Collection, Graphic Archive of Barcelona School of Architecture, ETSAB UPC, FF.AG.005749, ca. 1964

Richard Neutra with Robert Terradas and a group of students during his visit to Barcelona School of Architecture in 1969. Francisco Gallés Miquel Collection, Graphic Archive of Barcelona School of Architecture, ETSAB UPC, FF.AG.005853, 1969

Students working at Barcelona School of Architecture, in Diagonal Campus, 2008. Photography courtesy of Pau Majó
The first drawing classroom, popularly known as The Siberia, at the Central University Headquarters, designed by Elías Rogent (1821-1897), first Dean of School (1875-1889). Brangulí Collection, National Archive of Catalonia, ANC1-42-N-9906, ca. 1920

The new classroom of models and life-size replicas at Barcelona School of Architecture, opened in Diagonal Campus in 1961, and designed by Josep Maria Segarra Solsona. Francisco Gallés Miquel Collection, Graphic Archive of Barcelona School of Architecture, ETSAB UPC, FF.AG.005747, ca. 1964

Opening of Barcelona School of Architecture’s extension designed by José A. Coderch (1978-1985), with a performance and piano concert by Carlos Santos. Photography courtesy of Rosa Feliu

Contemporary model of the Pla Macià project, designed by the GATCPAC (Group of Catalan Artists and Technicians for Contemporary Architecture) in 1934, and located at the main entrance hall of Barcelona School of Architecture. Photography courtesy of Leire Román, 2020
The new Barcelona School of Architecture’s Library, opened in Diagonal Campus in 1961, and designed by Josep Maria Segarra Solsona. Francisco Gallés Miquel Collection, Graphic Archive of Barcelona School of Architecture, ETSAB UPC, FF:AG.005760, ca. 1964

The first Barcelona School of Architecture’s Library, at the Central University Headquarters, designed by Elías Rogent (1821-1897), first Dean of School (1875-1889). Brangulí Collection, National Archive of Catalonia, ANC1-42-N-9913, ca. 1920


The new Barcelona School of Architecture’s Library, known since April 2017 as Oriol Bohigas Library, designed by Jaume Sanmartí i Verdaguer (2009). Photograph taken in December 2020, under the effects of COVID-19 pandemic
The new assembly room (now disappeared) at Barcelona School of Architecture, opened in Diagonal Campus in 1961, and designed by Josep Maria Segarra Solsona. Francisco Gallés Miquel Collection, Graphic Archive of Barcelona School of Architecture, ETSAB UPC, FF:AG.005741, ca. 1964.

The first laboratory of building techniques and materials of Barcelona School of Architecture, at the Central University Headquarters, designed by Elías Rogent (1821-1897), first Dean of School (1875-1889). Branguli Collection, National Archive of Catalonia, ANC1-42-N-9918, ca. 1920.

The new entrance hall of Barcelona School of Architecture’s extension designed by José A. Coderch (1978-1985), and turned into a conference room on the occasion of the 7th cultural week, with the lecture of Alison and Peter Smithson, February 1986. Photography courtesy of Rosa Feliu.

The editor wants to express her deep gratitude to Rosa Feliu for the use of her photographs on the cover, flyleaves, and interior pages. Cover and back flyleaves: Opening of the Barcelona School of Architecture’s extension designed by José A. Coderch, with a performance and piano concert by Carlos Santos, 1985. © Rosa Feliu


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