



INTRODUCTION

In this subject, students will deepen their knowledge of advanced design processes related to architecture, in different conditions and contexts, through individual development of projects proposed by the lecturers. By using the methodology of advanced project training, theoretical, conceptual and operational aspects will be integrated in architectural projects with the final goal of achieving disciplinary excellence. Workshop training will be complemented with theoretical classes on issues related to the project under development in addition to public presentations, and the intermediate and final oral defense of projects. It deals with the following:

- Analytical methodology of the problems involved in an architectural project.
- Definition and justification of project goals.
- Development and reasoned presentation of project arguments.
- Advanced methodologies of architectural design: project tactics, techniques and strategies.
- Conceptualization and advanced graphic representation of the project.
- Building definition: integrating new techniques and materials in design.
- Contextualization of the architectural project within the contemporary critical and theoretical spectrum.

- **Master's Degree:** Master in Theory and Architectural Design
- **Module:** Module 3. Advanced Design of Architectural Projects
- **Subject:** Taller integrado de proyectos arquitectónicos I
- **Department:** Theory, Urban Design, and Architecture
- **Number of credits:** 9
- **Trimester:** 1
- **Type of course:** Required
- **Instructors:** Barbara Hoidn, María José Zegers
- **Language:** English / español
- **Lecture schedule / Classroom:** 9 a 19h viernes. Taller 5D

COMPETENCIES

BASIC

CB06: Obtain and understand knowledge that provides a basis or opportunity to be original in the development and/or application of ideas, often within a research context.

CB07: Students must know how to apply the knowledge acquired and the capacity to resolve problems in new or little known environments within broader (or multidisciplinary) contexts related to their area of study.

CB08: Students must be capable of integrating knowledge and tackling the complexity of forming judgments based on information that, being incomplete or limited, includes



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reflections on social and ethical responsibilities related to the application of their knowledge and judgment.

CB09: Students must be able to communicate their conclusions –and the knowledge and actual reasons that underpin them– to specialized and non-specialized audiences in a clear and unambiguous manner.

CB10: Students must have the learning skills that allow them to continue studying in a mostly self-managed or autonomous way.

GENERAL

CG1. Develop and present at an advanced level, ideas, arguments and reflections in the field of analysis and criticism of architecture.

CG3. To face the creative process of the architectural project at an advanced level and with the greatest aesthetic quality: from the conceptualization stage until the drafting of basic documents required for its building definition.

SPECIFIC

CE7. To apply and integrate the conclusions of analytical processes applied to designing advanced and original architectural projects, at different levels, that respond and provide feasible solutions in new and complex contexts.

CE8. To present ideas at an advanced level and defend their coherence and viability using oral, graphic and written methods of argumentation in the public presentation and defense of architectural projects of varying scale.

CE9. To manage, at an advanced level, design tools that bring together functionality, constructive rigor and economic viability in architectural projects with the greatest excellence.

PROGRAM

Week 1 22 Sep 23

Introduction and overview

Presentation (Hoidn Wang Partner BB 2070, Raumortpraxis.Hombroich)

Design exercise Interior

Design exercise Exterior

Week 2 29 Sep 23

PDF and model submission (online)

Week 3 05 | 06 Oct 23



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Pin up and desk crits

Presentation Berlin, Timber, Zollinger, Circular Construction, Herrmann Kaufmann

Week 4 13 Oct 23

Finalize site and materiality, narrative and diagram (online)

Week 5 19 | 20 Oct 23

Desk crits

Presentation (Latitudes: Eladio Dieste, Jose Maria Saez, Solano Benitez,

Rafael Ecclesia, Film Al Borde et al.)

Week 6 27 Oct 23

build node / sculpture (online)

Week 7 02 | 03 Nov 23

Mid-term to confirm design strategy

Presentation Japan

Week 8 10 Nov 23

review (online)

Week 9 16 | 17 Nov 23

Pin up and desk crits

Presentation Anne Heringer, Rahul Mehotra , Studio Mumbai)

Week 10 24 Nov 23

review PDF submission (online)

Week 11 30 Nov | 01 Dec 23

Desk crits, start final drawings



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Week 12 08 Dec 23

PDF submission (online)

Week 13. 15 Dec 23

Final review or another week

EDUCATIONAL ACTIVITIES

EDUCATIONAL ACTIVITY	Hours	Face-to-face activities
Theoretical classes	10	100%
Workshop classes	60	100%
Directed works	15	50%
Student's personal work	140	0%

ASSESSMENT

EVALUATION SYSTEM	Minimum weighting	Maximum weighting
SE3 Class attendance and participation	10	20
SE4 Project submission, presentation and defense	80	90

Final reviews date: 15 Dec 23

OFFICE HOURS



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- El alumno será atendido de manera presencial por sus profesores durante el desarrollo del Curso Académico. Además, podrán concertar citas para la resolución de dudas a través de correo electrónico: mzegers@unav.es

BIBLIOGRAPHY AND RESOURCES

Crafts in Architectural Education since beginning of Industrialization,

not complete, to be extended by the students :

France and England:

1803 Inauguration of the **École des Arts Décoratifs** in Paris (Viollet-Le-Duc)

Lectures on Architecture Eugène-Emmanuel **Viollet-Le-Duc**, Dover Publications, NY

1837 London Government School of Design

1851 **World Exhibition** in London, Paris 1855, Paris 1937, NY 1939, Vienna 1867, Zürich 1878

Arts and Crafts Movement:

John Ruskin (1819-1900), **William Morris** (1834 -1896),

http://www.survivorlibrary.com/library/the_true_and_the_beautiful_in_nature_art_morals_and_religion_1860.pdf

The Seven Lamps of Architecture, 1849 Dover Publications, NY

The Stones of Venice, 1851-53

William Morris, Red House 1859

Charles Rennie Mackintosh (1868-1928), The Glasgow School of Art

Maison de Verre by **Pierre Chareau** (1863-1950)

Eileen Gray (1878-1976)

Jean Prouvé (1901-1984), Metal Worker and architect

Tropique House 1949, Metropole House, 1950, Coque Houes 1951 (prefab and recycled)

Charles (1907-1978) and **Ray Eames** (1912-1988) Plywood, Fiberglas, Wire, Aluminium groups, Lounge chair, Case Study Houses

Lacaton (1955-) & **Vassal** (1954-) École Nationale Supérieure d'Architecture de Nantes



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Michelangelo Foundation, Homo Faber Foundation

<https://www.michelangeloofoundation.org>

Germany: Arts and Crafts versus Bauhaus

1904 Herrmann Muthesius (1861- 1927) returns from England and writes the decree on apprentice workshops, instituted by the Prussian Ministry of Trade and Commerce

1850-1945, Schools of Arts and Crafts became artistic training centers in Germany

1902 Reimann-School, Berlin

1907 Deutscher Werkbund e.V. (German Werkbund) initiated amongst others by Herrmann Muthesius

1907/ 08 Henry Van de Velde's (1863-1957) School of Arts and Crafts, Weimar

1915 Castle Giebichenstein in Halle, former school for craftsmen and arts and crafts, Paul Thiersch (1879-1928)

1919 Bauhaus Weimar replacing the Arts and Crafts School Weimar (director Walter Gropius 1883-1969)

1925 Bauhaus Dessau (Walter Gropius, Hannes Meyer, Ludwig Mies van der Rohe)

1898-1915 Deutsche Werkstätten Hellerau, Gartenstadt Hellerau, Heinrich Tessenow (1876-1950)

1923 Hellerauer Timber Homes by **Konrad Wachsmann** (laminated wood und OSB boards)

Peter Behrens (1868-1940) AEG chief designer

Hugo Häring (1882-1958) Neues Bauen

Frei Otto (1925-2015), **Carlfried Mutschler** (1926-1999)

Zollinger (1880-1945) **Roof Construction**

https://en.wikipedia.org/wiki/Friedrich_Zollinger

Bensemman Halls, Berlin Brick and Timber construction; **Pisé-Structures**

Adobe Martin Rauch (1958-); **Adobe and Bamboo**: Anna Heringer (1977-):

Starting with the METI School in Rudrapur got realized in 2005 in collaboration with Eike Roswag

<https://www.anna-heringer.com/projects/meti-school-bangladesh/>

Multi story timber constructions in urban conditions, Berlin; Experimental



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Austria All writings by **Adolf Loos** (1870-1933)

contemporary:

Timber: Herrmann Kaufmann (1955-)

<https://www.hkarchitekten.at/de/projekt/swg-schraubenwerk-gaisbach/>

<https://www.hkarchitekten.at/de/mediathek/#html5video-61874>

Timber Structures in **Voralberg** (Edition Detail)

https://www.buecher.de/shop/holzbau/turning-point-in-timber-construction-ebook-pdf/dangel-ulrich/products_products/detail/prod_id/54128528/

Switzerland
Holzwirtschaft Biel

Meili Peters Zurich Schweizerische Hochschule für die

<https://www.meilipeterpartner.ch/projekte/schweizerische-hochschule-fuer-die-holzwirtschaft-biel>

Scandinavia

Jørn Utzon (1918-2008) (Mallorca Private House), Sigurd Lewerentz (1885-1975)

Italy

Carlo Scarpa (1906-1978) education as glassmaker, technical draftsperson

[Peter Noever](#) (ed.): Carlo Scarpa. *Das Handwerk der Architektur / The Craft of Architecture*, MAK-Ausstellungskatalog. Hatje Cantz Verlag, Ostfildern-Ruit 2003

Spain Antoni Gaudi (1952-1926), Park Güell, 1900-1915, Palau Güell 1886-1890

Alejandro de la Sota (1913-1996)

<https://architectuul.com/architect/fernando-higueras>

TEd'A arquitectes Mallorca, <http://www.tedaarquitectes.com>

Flores Prats Arquitectos

<https://floresprats.com>

The Americas Shaker Architecture

Shaker built: *The Form and Function of Shaker Architecture*

ed. The Monacelli Press, 1994, June Sprigg

Frank LL Wright (1867-1959) 1910 Taliesin I - III und Taliesin West



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Louis Kahn (1901-1974) Salk Institute for Biological Studies, La Jolla California, 1959

Paolo Soleri (1919-2013), Arcosanti, Labs <https://www.arcosanti.org/stay/guest-rooms/>

Latitudes: Eladio Dieste, **Uruguay** Marcos Acayaba, **Brazil** Solano Benitez, **Paraguay** José María Saez, Rafael Iglesia (1952-2015) Altamira Building in Rosario, Marcelo Vilafane, Gerardo Caballero, **Argentina** Al Borde, **Columbia**

Indigenous building traditions **Peru, Guatemala**

Egypt, Reed buildings, **Yemen** Brick buildings, Adobe Buildings

Pakistan Yasmeen Lari (1940-) Zero Carbon Cultural Center, Pakistan

India Mumbai Studio <https://www.studiomumbai.com>

Rahul Mehotra (RMA Architects) <https://rmaarchitects.com/studio/>

China Wang Shu New Academy in Hangzhou

Japan Kengo Kuma, Sou Fujimoto, Kazuyo Sejima, Ryue Nishizawa SANAA;

Terunobu Fujimori, Shigeru Ban

Africa Francis Kéré; Aga Khan Award Foundation