

Course guide

210335 - STCP - Territory, City and Landscape Seminar

Last modified: 08/07/2024

Unit in charge: Barcelona School of Architecture
Teaching unit: 740 - DUTP - Department of Urbanism, Territory and Landscape.
Degree: DEGREE IN ARCHITECTURE STUDIES (Syllabus 2014). (Optional subject).
Academic year: 2024 **ECTS Credits:** 3.0 **Languages:** Catalan, Spanish

LECTURER

Coordinating lecturer: ÁLVARO CLÚA UCEDA
Others: Segon quadrimestre:
ÁLVARO CLÚA UCEDA - TCP

REQUIREMENTS

PROJECTES V - Prerequisit
PROJECTES VI - Prerequisit
TALLER TEMÀTIC II - Corequisit

TEACHING METHODOLOGY

LEARNING OBJECTIVES OF THE SUBJECT

- Provide students with concepts and techniques for advanced cartographic representation at territorial and urban scales.
- Accompany students in learning Geographic Information Systems (GIS) as a tool for evidence-based design projects.
- Provide students with the knowledge to incorporate geolocated urban data as a necessary factor for making complex city and territorial design decisions.
- Incorporate topological network analysis into interpretative cartographies of the territory, especially related to the study of mobility and flows.
- Introduce students to using advanced GIS systems to validate and simulate proposals.

STUDY LOAD

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

Total learning time: 75 h



CONTENTS

M1. Collaborative territorial cartographies

Description:

The first module addresses the construction of collaborative territorial cartographies, using the exploration of reality from manual or assisted drawing. It is a group work that seeks to discover the territorial and urban logic that explain certain metropolitan challenges, followed by a rigorous and intentional representation.

Full-or-part-time: 4h

Theory classes: 4h

M2. Geographic Information System

Description:

The second module introduces GIS tools (Geographic Information Systems - QGIS) for territorial analysis through its application on the project scope of the Taller Temàtic studio.

Full-or-part-time: 14h

Theory classes: 14h

M3. Simulation and validation of proposals

Description:

The third module develops simulations and validation of proposals using advanced GIS tools, especially those linked to the study of topology and spatial configurations.

Full-or-part-time: 12h

Theory classes: 12h

GRADING SYSTEM

BIBLIOGRAPHY

Basic:

- Desimini, Jill; Waldheim, Charles; Mostafavi, Mohsen. Cartographic grounds: projecting the landscape imaginary . New York : Princeton Architectural Press, [2016]. ISBN 978-1-61689-329-3.
- McHarg, Ian L. Design with nature . New York [etc.] : John Wiley & Sons, cop. 1992. ISBN 0471557978.
- Eizaguirre i Garaitagoitia, Xabier. El Territorio como arquitectura . Primera edición. Barcelona : Laboratori d'Urbanisme de Barcelona (UPC), febrero 2019. ISBN 9788498807370.
- Crosas Armengol, Carles. Metròpolis Barcelona. Barcelona : Àrea Metropolitana de Barcelona, 2015. ISBN 9788487881145.
- Font Arellano, Antonio. La Explosión de la ciudad: transformaciones territoriales en las regiones urbanas de la Europa Meridional. Barcelona : Ministerio de Vivienda: Col·legi Oficial d'Arquitectes de Catalunya, DL 2007. ISBN 8496387259.

Complementary:

- Hillier, Bill; Hanson, Julianne. The social logic of space. Cambridge: Cambridge University Press, 1984. ISBN 0-521-23365-8.
- Berghauer Pont, Meta; Haupt, Per. Spacematrix: space, density and urban form . ©2021. ISBN 9789462085381.
- Kajjima, Momoyo; Kuroda, Junzo; Tsukamoto, Yoshiharu. Made in Tokyo . Tokyo : Kajima Institute, 2001. ISBN 4306044211.
- Parcerisa, Josep; Rubert de Ventós, Maria. Metro : galàxies metropolitanes = galaxias metropolitanas = metropolitan galaxies . Barcelona : Transports Metropolitans de Barcelona : ETSAB : Edicions UPC, 2002. ISBN 8483016559.
- A+U Urban Science and New Design Tools [on line]. Tokyo: A+U, 2021 Available on: <https://au-magazine.com/shop/architecture-and-urbanism/au-202109/>.



RESOURCES

Hyperlink:

- Enllaç a QGIS (software lliure). <https://www.qgis.org/en/site/>