UCLouvain

larcx2003

2026

Digital Design

6.00 credits	60.0 h	Q1

This biannual learning is being organized in 2026-2027

Language :	French
Place of the course	Autre site
Main themes	The course enables students to acquire a process-oriented logic—both analog and digital—by reflexively developing an architectural design process. The proposed themes provide opportunities to critically engage with the global evolution of the 21st-century world, with a particular focus on the theories, methods, and practices of architectural design and representation. Special attention is given to the influence of New Information and Communication Technologies (NICT) on these design processes, as they are now integrated and no longer novel in shaping architectural approaches.
Learning outcomes	**At the end of this learning unit, the student is able to :** **Specific Learning Outcomes** By the end of this course, students will be able to: • Trace the evolution of key theories, models, and methods of design science in architecture, • Design a project by articulating and prioritizing intentions, integrating uncertainty as a constructive element within the design process, • Develop a research protocol that outlines data, objectives, methods, and the sequential phases of a design process, • Create an algorithm to organize and represent the phases of the design process, combining analog and digital representation tools, • Critically and reflectively evaluate the architectural solution proposed, as well as the methods used to develop it, • Integrate cross-disciplinary knowledge and leverage collaborative input from diverse participants to propose innovative architectural solutions. **General Learning Outcomes** In line with the program's learning outcomes (LOs), this course contributes to the development and acquisition of the following LOs: • LO1.1 Prioritize the parameters and issues of a given situation. • LO1.2 Justify the intentions and choices of an architectural project at different intervention scales. • LO1.5 Creatively compose a project with skill. • LO2.5 Inventively represent a creative process. • LO3.3 Understand and integrate scientific and technical knowledge to realize an architectural project. • LO4.1 Understand and mobilise the concepts and methods of scientific disciplines. • LO4.2 Understand and delve into the concepts and approaches of artistic disciplines. • LO4.3 Understand and integrate the content of other artistic or scientific disciplines to enrich the architectural project. • LO6.1 Acquire and rigorously apply disciplinary, interdisciplinary, or transdisciplinary methods of scientific research. • LO6.2 Formulate a research question and define a research subject in and on architecture.
Faculty or entity in charge	LOCI

Programmes containing this learning unit (UE)

Program title	Acronym	Credits	Prerequisite	Learning outcomes
Master [120] in Architecture (Tournai)	ARCT2M	6		🔍
Master [120] in Architecture (Bruxelles)	ARCB2M	6		🔍