UCLouvain

larcb1051

2026

Eco-architecture

3.00 credits	30.0 h	Q1

This biannual learning is being organized in 2026-2027

Teacher(s)	Thielemans Benoit ;
Language :	French
Place of the course	Bruxelles Saint-Gilles
Main themes	The course addresses notions of sustainable development and the meaning of related terminology considering contemporary challenges to maintaining humanity's living conditions. It highlights the cross-disciplinary nature of sustainability and the responses required, aiming to decompartmentalize knowledge and actions. The course critically examines sustainability in architecture, assessing its ability to respond effectively to these challenges. Finally, it explores ways to move from concepts to implementation in architectural projects, focusing on conceptual approaches, design and assessment methods, and practical guides.
Learning outcomes	**At the end of this learning unit, the student is able to :** • Analyze sustainable development through a multidisciplinary lens, addressing its social, economic, and environmental dimensions as they relate to architecture, • Assess the impact of architectural practices on sustainable development challenges, • Understand foundational concepts such as ecology and sustainability, and identify actionable strategies, including concepts, methods, tools, and approaches, to ensure architectural projects are sustainable, • Define the architect's role in integrating sustainable development considerations into design processes, • Establish connections between core disciplines (territories, landscape, construction, structures, equipment, building physics, history, heritage, ethics, philosophy, etc.) and sustainable construction, fostering a holistic and integrated approach to architectural design. **General Learning Outcomes** In line with the program's learning outcomes (LOs), this course contributes to the development and acquisition of the following LOs: • LO1.6 Incorporate Sustainable Development requirements into the design process, at multiple scales. • LO2.6 Proficiently depict environmental, social, and economic phenomena. • LO3.4 Understand and assess the environmental, social, and economic consequences of construction and technical choices. • LO4.4 Understand and assess the environmental, social, and economic consequences of architectural choices. • LO5.3 Advocate for exemplary architecture in light of Sustainable Development requirements.
Faculty or entity in charge	LOCI

Programmes containing this learning unit (UE)				
Program title	Acronym	Credits	Prerequisite	Learning outcomes
Bachelor in Architecture (Bruxelles)	ARCB1BA	3		
Bachelor in Architecture (Tournai)	ARCT1BA	3		