

Studio on Contemporary Issues: Designing to Minimize the Environmental Footprint of the Built Environment


10.00 credits

120.0 h

Q2

Teacher(s)	Bourez Olivier ;Cloquette Pierre ;
Language :	French
Place of the course	Louvain-la-Neuve
Main themes	<p>The studio offers a new cumulative experience of the architectural design process.</p> <p>In the context of a world in ecological and social transition, this studio takes construction methods and materiality as both a starting point and lever for design, giving particular attention to construction techniques and their environmental and social impacts. Studies on the constructive and environmental implications of materials and construction choices will be discussed. The scales addressed will range from contextual integration to detailed architectural proposals (including technical details). Studio outputs will include hand and computer-aided drawings, physical and/or digital models, and written reports synthesizing the hypotheses, issues, methods, and objectives of the proposed investigations.</p>
Learning outcomes	<p>At the end of this learning unit, the student is able to :</p> <ul style="list-style-type: none"> • Analyse and evaluate, within an iterative process, the potentials and constraints of ecological construction materials in an architectural project • Understand the structural, technical, and spatial impacts of material and construction method choices on architectural design • Design precise technical details, specific to certain materials • Pre-dimension structural elements and integrate them into an architectural project • Critically argue the choices that guided and shaped the architectural project, and this based on the analyses made of building materials and construction methods <ul style="list-style-type: none"> • Develop an architectural project, integrating multiple issues and drivers (ecological, programmatic, constructional, typological, poetic...) • Choose and select the graphical methods adequate for the development of the project as well as its representation • Take critical distance from the project under development: describe, analyse and critique its foundations, methods, and objects
Faculty or entity in charge	LOCI

Programmes containing this learning unit (UE)

Program title	Acronym	Credits	Prerequisite	Learning outcomes
Bachelor in Engineering : Architecture	ARCH1BA	10		
Master [120] in Architecture and Engineering	ARCH2M	10		