

4.00 credits

30.0 h + 15.0 h

Q2

Teacher(s)	Marino Giulia ;
Language :	French
Place of the course	Charleroi
Prerequisites	LBARC1164 <i>The prerequisite(s) for this Teaching Unit (Unité d'enseignement – UE) for the programmes/courses that offer this Teaching Unit are specified at the end of this sheet.</i>
Main themes	<p>In Brussels, the teaching is cumulative and progressive, from the shell to the finishing details, while in Tournai construction and materials are taught in a global way; in this way, students can form logical groupings.</p> <p>This teaching unit describes the construction methods and assembly of complex walls which must respond to multiple requirements (structural, constructional, thermal, functional etc.). It links different technical disciplines and shows a range of different response to specific situations in architecture.</p>
Learning outcomes	<p>At the end of this learning unit, the student is able to :</p> <p>The objective of this teaching unit is to generate the necessary skills to bring architectural objectives into line with how to translate them into material terms.</p> <p>Specific learning outcomes:</p> <p>By the end of the course, students will be able to</p> <ul style="list-style-type: none"> • be familiar with and refer to the physical and construction properties of the main materials and elements of construction. • be familiar with and refer to a wide range of elements of construction. • produce a budget for technical details combining the different requirements in building, insulation and waterproofing. • make use of technical documentation involved in construction techniques. • develop appropriate building proposals in relation to a simple architectural objective. <p>Contribution to the learning outcomes reference framework:</p> <p>Use the technical dimension</p> <ul style="list-style-type: none"> • Be familiar with and describe the main technical principles of building • Observe and assess the main construction principles of a building • Be able to apply the various basic technical principles in a producing a work of architecture <p>Express an architectural procedure</p> <ul style="list-style-type: none"> • Express ideas clearly in oral, graphic and written form
Evaluation methods	.
Bibliography	<ul style="list-style-type: none"> • Andrea Deplazes, Constructing Architecture: Materials, Processes, Structures. A Handbook, Birkäuser, Bâle-Boston-Berlin, 2018 • Jean-René Vittone, Bâtir. Manuel de construction, PPUR, Lausanne, 2010 • Pierre Epron, L'architecture et la règle, Mardaga, Bruxelles, 1981 • Yves Deforge, Le graphisme technique : son histoire et son enseignement, Editions Champ Vallon, 1981 • Aymeric de Vigan, Jean de Vigan, Dicobat visuel, Arcature, 2019
Faculty or entity in charge	LOCI

Programmes containing this learning unit (UE)				
Program title	Acronym	Credits	Prerequisite	Learning outcomes
Bachelor in Architecture (Bruxelles)	ARCB1BA	4	LBARC1164	