

In view of the health context linked to the spread of the coronavirus, the methods of organisation and evaluation of the learning units could be adapted in different situations; these possible new methods have been - or will be - communicated by the teachers to the students.

4 credits

30.0 h + 15.0 h

Q1

Teacher(s)	Wittevrongel Bernard ;
Language :	French
Place of the course	Tournai
Prerequisites	<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><b>In Brussels</b>, the teaching is cumulative and progressive, from the shell to the finishing details, while <b>in Tournai</b> construction and materials are taught in a global way; in this way, students can form logical groupings.</p> <p>This teaching unit complements and takes further the description of materials, elements and methods of construction in previous teaching units and develops specific questions linked to the practice of construction in complex situations and in real conditions. The unit deals with construction in an architectural dimension and aims to explore particular methods of implementation.</p>
Aims	<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>This teaching unit focuses particularly on one dimension of the profile of a Bachelor level graduate in Architecture: developing a technical dimension.</p> <p><b>Specific learning outcomes:</b></p> <p>By the end of the course, students will be able to</p> <ul style="list-style-type: none"> <li>put forward appropriate building solutions regarding construction in complex situations.</li> <li>identify the methods of organisation of work on site.</li> </ul> <p><sup>1</sup> <b>Contribution to the learning outcomes reference framework:</b></p> <p><b>Use the technical dimension</b></p> <ul style="list-style-type: none"> <li>• <i>Be familiar with and describe the main technical principles of building</i></li> <li>• <i>Observe and assess the main construction principles of a building</i></li> <li>• <i>Be able to apply the various basic technical principles in a producing a work of architecture</i></li> </ul> <p><b>Express an architectural procedure</b></p> <ul style="list-style-type: none"> <li>• <i>Express ideas clearly in oral, graphic and written form</i></li> </ul> <p>-----</p> <p><i>The contribution of this Teaching Unit to the development and command of the skills and learning outcomes of the programme(s) can be accessed at the end of this sheet, in the section entitled "Programmes/courses offering this Teaching Unit".</i></p>
Evaluation methods	<p><b>Due to the COVID-19 crisis, the information in this section is particularly likely to change.</b></p> <ul style="list-style-type: none"> <li>• Written, drawing exam</li> <li>• Continuous evaluation</li> </ul>
Teaching methods	<p><b>Due to the COVID-19 crisis, the information in this section is particularly likely to change.</b></p> <ul style="list-style-type: none"> <li>• Lectures</li> <li>• Case-studies</li> <li>• Exercices</li> </ul>
Content	<p>Some themes of the previous course in Bac 1 are taken over, and starting from the general principles, the sphere of constructive possibilities is widen, and more especially on the following subjects :</p> <ul style="list-style-type: none"> <li>• timber frame constructions</li> <li>• steel frame constructions</li> <li>• metal roofs</li> <li>• stairs and elevators</li> <li>• millwork</li> </ul>

	<ul style="list-style-type: none"> <li>• floors</li> </ul>
Inline resources	The slideshows and all of the documents are available on moodle.
Bibliography	<p>Andrea Deplazes, Construire l'architecture, Birkhäuser, 2013, Bâle</p> <p>Alexander Reichel, Kerstin Schultz, Support I Materialise, Birkhäuser, 2013, Bâle</p> <p>Bert Bielefeld, Basics building construction, Birkhäuser, 2015, Bâle</p>
Faculty or entity in charge	LOCI

<b>Programmes containing this learning unit (UE)</b>				
Program title	Acronym	Credits	Prerequisite	Aims
Bachelor in Architecture (Tournai)	ARCT1BA	4	LTARC1262	