

4.00 credits

30.0 h + 15.0 h

Q2

Teacher(s)	Amand Arnd ;
Language :	French
Place of the course	Bruxelles Saint-Gilles
Main themes	<p>In Brussels, the teaching is cumulative and progressive, from the shell to the finishing details, while at Tournai construction and materials are taught in a global way; in this way, students can form logical groupings.</p> <p>This teaching unit describes in parallel and in a general way the main materials, elements and implementation systems used in the construction field. It introduces generally accepted rules of building, linked to the nature of the materials used.</p>
Learning outcomes	<p><b>At the end of this learning unit, the student is able to :</b></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>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>• have an active knowledge of technical terminology and apply the graphic conventions involved in construction techniques.</li> <li>• be familiar with and refer to the physical and construction properties of materials and elements of construction.</li> <li>• understand and refer to a range of implementation systems.</li> <li>• understand the physical properties of materials so as to get to grips with the construction systems where they are used.</li> </ul> <p><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>
Evaluation methods	The evaluation is realized through a written evaluation including technical construction details according to the design conventions taught. Individual work is also to be put back at the end of the four-month period.
Teaching methods	<p>Theoretical cursus based on PowerPoint presentations and notes taken during the lecture (sketches, graphics, illustrations, technical details drawings, ...) and with the view of materials samples from the samples library.</p> <p>The theoretical course is taught via Microsoft Teams during the Covid-19 crisis period. Students are given practical sessions in small groups in order to be able to practice constructive details.</p>
Bibliography	NIT du CSTC et documentation technique
Faculty or entity in charge	LOCI

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