

Teacher(s)	De Groote Geert ;
Language :	French
Place of the course	Tournai
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 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>• Be familiar with and describe the main technical principles of building</li> <li>• Observe and assess the main construction principles of a building</li> <li>• Be able to apply the various basic technical principles in a producing a work of architecture</li> </ul> <p><b>Express an architectural procedure</b></p> <ul style="list-style-type: none"> <li>• Express ideas clearly in oral, graphic and written form</li> </ul>
Evaluation methods	<p><u>Examination session in June</u> Evaluation of thematic exercises throughout the year: 10% of the points Written exam, consisting of two parts: - drawing of 2 details: 50% of the points - a series of theoretical questions: 40% of the points</p> <p><u>Examination session in August</u> Written exam, consisting of two parts: - drawing of 2 details: 60% of the points - a series of theoretical questions: 40% of the points</p>
Teaching methods	<p>Theoretical presentations and case studies</p> <p>Thematic exercises</p>
Content	<p>Starting from the general principles and architectural intentions, the following topics are addressed:</p> <ul style="list-style-type: none"> <li>- Foundations</li> <li>- Massive masonry and concrete constructions</li> <li>- The cavity wall</li> <li>- Concrete floors</li> <li>- Flat roofs</li> <li>- Green roofs</li> <li>- Insulation</li> </ul>

Bibliography	Andrea Deplazes, Construire l'architecture, Birkhäuser, 2013, Bâle
Faculty or entity in charge	LOCI

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