

3.00 credits

30.0 h

Q1

Teacher(s)	Laloux Olivier ;
Language :	French
Place of the course	Tournai
Main themes	<p>This teaching unit is designed to develop transferable and practical skills in the fields of Construction, Materials and Facilities.</p> <p>In particular, it is designed to develop extensive familiarity with the documentation of technical, scientific and regulatory references and professional communication tools (specifications and graphic material).</p> <p>It also aims to develop a global overview of materials and techniques involved in the process of building.</p>
Learning outcomes	<p><b>At the end of this learning unit, the student is able to :</b></p> <p>This teaching unit particularly focuses on three axes in the profile of the holder of a Master's degree in Architecture: giving concrete expression to a technical dimension, making use of other disciplines and adopting a professional approach.</p> <p><b>Specific learning outcomes:</b></p> <p>By the end of this course, students will be able to</p> <ul style="list-style-type: none"> <li>• make use of technical, scientific and regulatory documentation relating to building materials and techniques and HVAC systems.</li> <li>• develop and comprehensive proposal for construction systems and facilities which is appropriate for the properties of a site and an architectural project.</li> <li>• manage complex construction projects (details), using the interface of different techniques.</li> <li>• produce documents conveying an architectural proposal to professionals (specifications, drawings, etc.).</li> </ul> <p><b>Contribution to the learning outcomes reference network:</b></p> <p><b>1 Use the technical dimension</b></p> <ul style="list-style-type: none"> <li>• Be familiar with and interpret the main technical principles of construction</li> <li>• Observe and assess the main construction principles that give architecture a formal, material and temporal dimension</li> <li>• Be able to apply the various basic technical principles in producing a work of architecture</li> <li>• Acquire an instinctive understanding of structures to use in producing a creative and/or innovative 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> <p><b>Adopt a professional attitude</b></p> <ul style="list-style-type: none"> <li>• Organise, plan, develop and bring together the different strands of individual or collective work</li> <li>• Test and observe the framework of professional practice and to architectural knowledge through independent involvement</li> </ul>
Evaluation methods	<ul style="list-style-type: none"> <li>• Written, drawing exam.</li> <li>• Continuous evaluation.</li> </ul>
Teaching methods	<ul style="list-style-type: none"> <li>• Lectures.</li> <li>• Case-studies.</li> <li>• Exercices.</li> </ul>
Inline resources	The slideshows and all of the documents are available on moodle.
Bibliography	<ul style="list-style-type: none"> <li>• Andrea Deplazes, Construire l'architecture, Birkhäuser, 2013, Bâle</li> <li>• Alexander Reichel, Kerstin Schultz, Support I Materialise, Birkhäuser, 2013, Bâle</li> <li>• Bert Bielefeld, Basics building construction, Birkhäuser, 2015, Bâle</li> </ul>

Faculty or entity in charge	LOCI
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<b>Programmes containing this learning unit (UE)</b>				
Program title	Acronym	Credits	Prerequisite	Learning outcomes
Master [120] in Architecture (Tournai)	ARCT2M	3		