


Teacher(s)	Wittevrongel Bernard ;
Language :	French
Place of the course	Tournai
Main themes	<p>This teaching course offers study and critical analysis of remarkable buildings from a viewpoint of material. It explores to what extent the material and its use in construction and in structures corresponds to the design idea of the architect. This is why the physical dimension is crossed by a theoretical dimension.</p> <p>The topics are intended to cut across subjects, bringing together not only structure and construction, but theories of architecture and the history of the discipline, as well as contexts in society - social, economic and cultural ' within which this architecture was able to come into being.</p>
Learning outcomes	<p><b>At the end of this learning unit, the student is able to :</b></p> <p><b>Specific learning outcomes:</b> By the end of the course, students will be able to</p> <ul style="list-style-type: none"> <li>• adopt a critical approach to architecture.</li> <li>• link theory and practice.</li> <li>• understand architectural design from the perspective of its physical dimension.</li> </ul> <p><b>Contribution to the learning outcomes reference framework:</b> With regard to the learning outcomes reference framework of the Bachelor's degree in Architecture, this teaching unit contributes to the development, the acquisition and the assessment of the following learning outcomes:</p> <p>1 <b>Build knowledge of architecture</b></p> <ul style="list-style-type: none"> <li>• Be familiar with and analyse the basic references</li> <li>• Be able to use given references which, by analogy, can lead to other interpretations of the context</li> </ul> <p><b>Make use of other subjects</b></p> <ul style="list-style-type: none"> <li>• Seek out other approaches, exchanges of views and ways of enhancing thinking about architecture</li> </ul> <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>• Acquire an instinctive understanding of structures to use in producing a creative work of architecture</li> </ul>
Evaluation methods	Written and drawing exam
Teaching methods	Lectures
Content	<p>The learning unit approaches architecture on a particular way from the 19th century till today. The material component of architecture is the central topic. It's a transversal approach that convokes the technical and conceptual dimension, as well as history and the production conditions of architecture.</p> <p>The learning unit alternates theoretical approach and case studies, builds relationships and reveals similarities between architectures from different periods.</p> <p>Structure of the course :</p> <ul style="list-style-type: none"> <li>• Introduction</li> <li>• Context of the architectural production of the 19th century</li> <li>• Five particular approaches on architecture</li> </ul> <ul style="list-style-type: none"> <li>- Architecture and durability</li> <li>- Abstraction of materials</li> <li>- The truth of materials</li> <li>- Architecture and engineering</li> <li>- Architecture and dressing</li> </ul>

Inline resources	The slideshows and all of the documents are available on moodle.
Bibliography	<ul style="list-style-type: none"> <li>• Kenneth Frampton: <i>Studies in Tectonic Culture</i>, MIT Press, Cambridge, London, 1996.</li> <li>• Edward R. Ford: <i>The details of modern architecture</i>. MIT Press Cambridge London, 1994.</li> <li>• Giovanni Fanelli et Roberto Gargiani: <i>Histoire de l'architecture moderne. Structure et revêtement</i>, presses polytechniques et universitaires romandes, Lausanne, 2008.</li> </ul>
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	3		
Bachelor in Architecture (Tournai)	ARCT1BA	3		