


Due to the COVID-19 crisis, the information below is subject to change, in particular that concerning the teaching mode (presential, distance or in a comodal or hybrid format).

8 credits	90.0 h	Q1
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**This biannual learning is being organized in 2020-2021**

Teacher(s)	Bolle Caroline ;Rondeaux Jean-François ;Vanden Eynde Jean-Louis ;Vandenbroucke David ;
Language :	French
Place of the course	Bruxelles Saint-Gilles
Main themes	<p>The Issues in Architecture: Heritage &amp; Memory course is designed to face students with the interaction between the physical conditions and the cultural conditions of an architectural project in a pre-existing building.</p> <p>The opportunities to link this issue to academic research mainly relate to a transdisciplinary approach to knowledge and understanding of the physical state of the construction as well as the methodology for intervention and the integration of the project in the pre-existing building.</p> <p>Issues in Architecture : Heritage &amp; Memory is made up of two (biennial) modules:</p> <p><b>MODULE A (biennial): Preliminary Study and State of Property Report</b></p> <p>This module explores and examines more deeply the different aspects of the physical state of an existing property or part of a property and leads to the production of a preliminary study and a document on the state of the property. It raises questions about a procedure to contextualise a situation by linking it with the reality of the discipline. The module includes theoretical classes, formal lectures and participatory seminars.</p> <p>The course develops the following topics:</p> <p>Identification of heritage Methodology of restoration project Stability of structures and pathologies. Belgium forms geographical limits. The time scale goes from the Roman conquest to the first half of the twentieth century.</p> <p>Please note : MODULE B explores the question of an integration project. Implementation of an architectural integration project within an existing building.</p>
Aims	<p>This course forms part of a group of teaching units on the physical and cultural condition of an architectural project in the context of a pre-existing building.</p> <p>By the end of this course, students will be able to</p> <ul style="list-style-type: none"> <li>• make use of other disciplines : seek out other concepts and methods, exchange and nurture thinking on architecture.</li> <li>• test an artistic approach : apply a voluntary act to an uncertain beginning by bringing together elements which are a priori diffuse and heterogeneous to form a proposal which can be understood by others.</li> <li>• implement a technical dimension : integrate and develop technical and academic knowledge on building to use them as a driver in efficient and sustainable architectural design.</li> <li>• form a body of architectural knowledge : find references which, by analogy, open the way for other interpretations of the context.</li> </ul> <p><sup>1</sup> <i>Issues in Architecture: Heritage &amp; Memory</i> is also designed to prepare for the specialised Master's degree in restoration and heritage as well as the multidisciplinary approaches that graduates will meet in the professional world.</p> <p><b>More specifically</b>, the knowledge that students will gain from <b>Module A: Preliminary Study and State of Property Report</b> brings together the following skills :</p> <p><b>Identification of heritage</b> : By the end of this course, students will be able to</p> <ul style="list-style-type: none"> <li>• recognise characteristic elements of architecture, whether whole or fragmentary, describe them with appropriate vocabulary, complete them in graphic form where necessary and to site them in time.</li> <li>• establish the proportion of traditional building as opposed to innovation in architecture.</li> </ul> <p><b>Methodology of a restoration project</b>: By the end of this course, students will be able to</p> <ul style="list-style-type: none"> <li>• structure the approach to the historic building by linking the survey, the chart of pathologies and the chart of potential.</li> </ul>

	<ul style="list-style-type: none"> <li>• within the framework of a multi-disciplinary approach, assess and review the expert opinions and the results of prior studies.</li> <li>• organise the documents of the restoration project: description of the work, measurements, estimates, tendering report, reports of site meetings, final report designed for publication.</li> <li>• understand the context of stakeholders in a restoration project: Project Managers, Regions, Towns and Villages, Historic Monuments Commissions, Coordination Committees.</li> <li>• take the necessary administrative steps for the restoration of protected historic buildings, in the areas of the Brussels Capital and the Walloon Region.</li> <li>• take the necessary steps for awarding contracts for services and work.</li> </ul> <p><b>Stability of structures and pathologies:</b> By the end of this course, students will be able to:</p> <ul style="list-style-type: none"> <li>• identify and understand the most common pathologies and problems which can affect old structures.</li> <li>• carefully review how to find out the causes of these problems and the choice of investigation methods.</li> <li>• make use of the necessary skills to choose the methods for repair.</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>
Bibliography	<p>BOLLE C., COURA G. &amp; LEOTARD J.-M. (dir), <i>L'archéologie des bâtiments en question. Un outil pour les connaître, les conserver et les restaurer</i>. Actes du colloque international Liège les 9 et 10 novembre 2010, Etudes et Documents, Archéologie 35, Ministère de la Région Wallonne, Namur, 2014.</p> <p>HOFFSUMMER P., <i>Les charpentes de toitures en Wallonie</i>, Etudes et Documents, Monuments et Sites 1, Ministère de la Région Wallonne, Namur, 1999.</p> <p>HOFFSUMMER P. (dir), <i>Les charpentes du XIe au XIXe siècle, Typologie et évolution en France du Nord et en Belgique</i>, Cahiers du Patrimoine, MONUM, Editions du Patrimoine, Paris, 2002.</p> <p>MUTTONI A., <i>L'art des structures : une introduction au fonctionnement des structures en architecture</i>, PPUR Presses polytechniques, 2004.</p> <p>PEROUSE DE MONTCLOS J.-M., <i>Principes d'analyse scientifique, Vocabulaire de l'Architecture, méthode et vocabulaire</i>, MONUM, Editions du Patrimoine, Paris, 2011.</p>
Faculty or entity in charge	LOCI

<b>Programmes containing this learning unit (UE)</b>				
Program title	Acronym	Credits	Prerequisite	Aims
Master [120] in Architecture (Tournai)	ARCT2M	8		
Master [120] in Architecture (Bruxelles)	ARCB2M	8		