


3.00 credits	30.0 h	Q2
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Teacher(s)	Capron Jean-Luc ;
Language :	French > English-friendly
Place of the course	Bruxelles Saint-Gilles
Main themes	<p>The course is designed to train future architects to use tools for the analysis and design of an environment created by being able to use the space-light-colour dimension. More specifically the relationship between space and light, both natural and artificial and the relationship between space and colour, light and matter.</p> <p>We will develop the following topics:</p> <ol style="list-style-type: none"> <li>1. Definition of light and colour as a perceptual phenomenon, establishing the space and generating architectural atmosphere</li> <li>2. Spatial and perceptual analysis of architectural examples using light and colour from the beginning of the design process</li> <li>3. Experimentation showing the spatial relationship between light, both natural and artificial and colour, light and matter</li> <li>4. Use of special software, tools for design and expressing architectural atmosphere</li> <li>5. Establishment of typologies of atmosphere and their photometric and colorimetric, graphic and spatial characteristics</li> <li>6. Design of light and colour plans with spatial characteristics defined with regard to human factors.</li> </ol>
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 this course, students will be able to</p> <ul style="list-style-type: none"> <li>• list the characteristic features of atmospheres generated by light and colour.</li> <li>• identify the perceptual parameter of spatial perception.</li> <li>• interpret strategies for choosing light and colour.</li> <li>• test different perceptual atmospheres, using appropriate tools.</li> <li>• draw up light and colour plans with specific spatial characteristics.</li> <li>• set out strategies for choosing atmospheres using light and colour.</li> </ul> <p><b>Contribution to the learning outcomes reference network:</b></p> <p><b>Design a project</b> Adopt approaches which are methodical, creative, metaphorical, perceptive, collaborative etc.</p> <p>1 <b>Test an artistic approach</b></p> <ul style="list-style-type: none"> <li>• To imagine drivers which can transform the perception of what is real</li> </ul> <p><b>Place the action</b></p> <ul style="list-style-type: none"> <li>• Experiment with the possibilities of transforming a context</li> </ul> <p><b>Make use of other subjects</b></p> <ul style="list-style-type: none"> <li>• Make strategic use of other subjects to put into question the design and implementation of an architectural project</li> </ul> <p><b>Express an architectural procedure</b></p> <ul style="list-style-type: none"> <li>• Identify the founding elements of a hypothesis or a proposal to express and communicate them</li> </ul>

<p>Bibliography</p>	<p>La bibliographie complète est accessible sur Moodle.</p> <p>Capron, Jean-Luc (2012). Impact of the Interaction between Colour, Light and Vision on the Perception of Spatial Boundaries. 8th Color Conference, Bologna du 13/09/2012 au 14/09/2012.</p> <p>Capron, Jean-Luc. Coloured Light Sequences based on Human Perception : The case of a lit sculpture in an urban open space. AIC 2011, Interaction of Colour &amp; Light in the Arts and Sciences, Midterm Meeting of the International Color Association (Zurich, du 07/06/2011 au 10/06/2011). In: AIC 2011, Interaction of Colour &amp; Light in the Arts and Sciences, Midterm Meeting of the International Color Association, Zurich, Switzerland, 7–10 June 2011: Conference Proceedings, pro/colore: Zurich, 2011. 978-3-033-02929-3, p. 50-53.</p> <p>Capron, Jean-Luc. Couleur et environnement construit. In: Architecture UCLouvain - St-Luc Architecture -Site de Bruxelles, UCLouvain - St-Luc Architecture - Site de Bruxelles: Bruxelles, 2010, p. 69.</p> <p>Capron, Jean-Luc. Lumière et environnement construit. In: Architecture UCLouvain - St-Luc Architecture - Site de Bruxelles, UCLouvain - St-Luc Architecture - Site de Bruxelles: Bruxelles, 2010, p. 68.</p> <p>Capron, Jean-Luc. Pour une nouvelle approche de l'éclairage architectural. In: Architecture UCLouvain - St-Luc Architecture - Site de Bruxelles, UCLouvain - St-Luc Architecture - Site de Bruxelles: Bruxelles, 2010, p. 66-67.</p> <p>Capron, Jean-Luc ; Huysmans, Marie-Hélène. Textile Design based on Built Environment and User Specificities: Re-scaling a classroom with colored patterns on textile. Interim Meeting AIC COLOR 2002 SI, COLOR &amp; TEXTILES (Maribor, du 29/08/2002 au 31/08/2002). In: AIC COLOR 2002 SI "Color &amp; Textiles" – Book of Proceedings, 2003. 86-435-0528-5, p. 69-76.</p>
<p>Other infos</p>	<p>The course is <b>English friendly</b>.</p>
<p>Faculty or entity in charge</p>	<p>LOCI</p>

<b>Programmes containing this learning unit (UE)</b>				
Program title	Acronym	Credits	Prerequisite	Learning outcomes
Master [120] in Architecture (Tournai)	ARCT2M	3		
Master [120] in Architecture (Bruxelles)	ARCB2M	3		