



This biannual learning unit is not being organized in 2022-2023 !

Language :	French > English-friendly
Place of the course	Tournai
Main themes	<ul style="list-style-type: none"> • Finding and clarification of the principles which link architecture to its formal, material and temporal dimension • Understanding of the behaviour of complex structures • Exploration of the creative and innovative dimensions of structures • Integration of data on structure, construction and facilities in an architectural project
Learning outcomes	<p>At the end of this learning unit, the student is able to :</p> <p>Specific learning outcomes</p> <p>1st part</p> <p>Students will find out and clarify the principles which link architecture to its formal, material and temporal dimension.</p> <p>Students will be able to</p> <ul style="list-style-type: none"> • make links with the theory, i.e. advance their understanding and develop new knowledge. • use resources, i.e. make strategic use of available information to make new representations and express global ideas to be able to identify and bring together all the different architectural dimensions. <p>It is thus a transdisciplinary approach in which students are required to produce knowledge and play an active part their own learning.</p> <p>2nd part</p> <p>Students will gain intuitive understanding of the behaviour of structures which culminates in a production judged to be creative, innovative or inventive. This creative process is based on a dialogue and on an "open intuition" leading to the formulation of hypotheses which respond to a certain number of parameters which are either given or introduced by students. Students are put in the situation of a "structure designer". Skills are acquired through exploration of the material dimension of architecture, encompassing structure and geometry, materials and construction.</p> <p>Contribution to the learning outcomes reference network:</p> <p>Test an artistic approach</p> <p>1</p> <ul style="list-style-type: none"> • <i>To imagine drivers which can transform the perception of what is real</i> <p>Build knowledge of architecture</p> <ul style="list-style-type: none"> • <i>Be familiar with and analyse the discipline's basic references</i> • <i>Develop knowledge and become an active participant in the learning process</i> <p>Make use of other subjects</p> <ul style="list-style-type: none"> • <i>Make strategic use of other subjects to put into question the design and implementation of an architectural project</i> <p>Use the technical dimension</p> <ul style="list-style-type: none"> • <i>Be able to apply the various basic technical principles in producing a work of architecture</i> • <i>Acquire an instinctive understanding of structures to use in producing a creative and/or innovative work of architecture</i> <p>Adopt a professional attitude</p> <ul style="list-style-type: none"> • <i>Test and observe the framework of professional practice and to architectural knowledge through independent involvement</i> <p>Make committed choices</p> <ul style="list-style-type: none"> • <i>Activate and develop an ethical sense through approaches to architecture</i>

Evaluation methods	<ul style="list-style-type: none"> • Architectural design. • Notebook.
Teaching methods	<ul style="list-style-type: none"> • Lectures. • Architecture workshop. • Personal research.
Inline resources	The slideshows and the documents are available on moodle.
Bibliography	<ul style="list-style-type: none"> - Andrea Deplazes, Construire l'architecture, Birkhauser, Kenneth Frampton: Studies in Tectonic Culture, MIT Press, Cambridge, London, 1996. - Construire en bois, Birkhäuser, Herzog, Thomas / Natterer, Julius / Schweitzer, Roland / Volz, Michael / Winter, Wolfgang, Birkhäuser, PPUR, 2012 - Mohsen Mostafavi, Structure as Space, AA editions, 2006, London. - Luisa Collina : Process and pattern in architecture and design, Silvana, 2016, Milano - Ney & Partners : Franchir le vide. A pied et à vélo. Archibooks - Peter Rice, Mémoire d'un ingénieur, Le Moniteur, Paris, 1998. - Cecil Balmond, Informal, Prestel, 2002 - Akos Moravansky, Metamorphism, Material change in architecture, Birkhäuser, Basel, 2018 - Jürg Conzett, Seven bridges by Jürg Conzett, Zürich: Verlag Scheidegger & Spiess, 2013. - Klaus Zwerger, Wood and Wood Joints, Birkhäuser, Basel, 2000. - Bernard Wittevrongel (dir), Question d'architecture Structure. Projets 2016-2018, UCL LOCI 2019
Faculty or entity in charge	LOCI

Programmes containing this learning unit (UE)				
Program title	Acronym	Credits	Prerequisite	Learning outcomes
Master [120] in Architecture (Tournai)	ARCT2M	8		
Master [120] in Architecture (Bruxelles)	ARCB2M	8		