UCLouvain

ltarc2066 2023	Architecture in question : architecture and technologies (part B)

8.00 credits	90.0 h	Q1

This biannual learning is being organized in 2023-2024

Teacher(s)	De Groote Geert ;Faux Pascaline ;Gallez Olivier ;
Language :	French > English-friendly
Place of the course	Tournai
Main themes	• 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	**At the end of this learning unit, the student is able to :** Specific learning outcomes 1st part Students will find out and clarify the principles which link architecture to its formal, material and temporal dimension. Students will be able to • 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. It is thus a transdisciplinary approach in which students are required to produce knowledge and play an active part their own learning. 2nd part 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 though exploration of the material dimension of architecture, encompassing structure and geometry, materials and construction. **Contribution to the learning outcomes reference network:** **Test an artistic approach** • *To imagine drivers which can transform the perception of what is real* ***Build knowledge of architecture*** • *Be familiar with and analyse the discipline's basic references* • *Develop knowledge and become an active participant in the learning process* **Make use of other subjects** • *Make strategic use of other subjects to put into question the design and implementation of an architectural project* **Use the technical dimension** • *Be able to apply the various basic technical principles in producing a work of architecture* • *Acquire an instinctive understanding of structures to use in producing a creative and/or innovative work of architecture* Adopt a professional attitude • *Test and observe the framework of professional practice and to architectural knowledge through independent involvement* **Make committed choices** • *Activate and develop an ethical sense through approaches to architecture*

Evaluation methods	The evaluation covers the entire research process. This process will be ponctuated by 3 deadlines : - presentation phase 1 : october - presentation phase 2 : november - Individual notebook : january Students who have participated the 3 deadlines but who have not successed the QA in first session might access to a second session. For this additionnal session, an individual work will be required, in the form of a notebook to deliver in september session.
Teaching methods	• Lectures. • Workshop. • Personal research.
Inline resources	The slideshows and the documents are available on moodle.
Bibliography	- Andrea Deplazes, Construire l'architecture, Birkhauser, Kenneth Frampton: Studies in Tectonic Culture, MIT Press, Cambridge, London, 1996. - Construire en bois, Birkhaüser, Herzog, Thomas / Natterer, Julius / Schweitzer, Roland / Volz, Michael / Winter, Wolfgang, Birkhaüser, 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		🔍