	uvain	ltarc2065		Architecture in question : architecture		
		2023		and technologies (part A)		
ĺ		8.00 credits	9	0.0 h	Q1	

This biannual learning unit is not 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	 Process of structure design: methods and tools 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: Students will explore and test out the principles which link architecture to its formal, material and temporal					
	dimension. Students will be able to					
	 approach certain specific methods of design. manipulate certain tools of structural design. develop a critical approach to available tools with a view to integrating them in architectural design. integrate methods and tools linked to structure in the process of project design. actively promote creativity in construction for the benefit of the project. 					
	Contribution to the learning outcomes reference network: 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					
	¹ • Seek out other approaches, exchanges of views and ways of enhancing thinking about architecture					
	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 					
	Express an architectural procedure					
	Identify the founding elements of a hypothesis or a proposal to express and communicate them					
	Adopt a professional attitude					
	• Listen to and identify the different needs and points of view of the different stakeholders to be able to bring these together in respect of the desired objectives					
	Make committed choices					
	Activate and develop an ethical sense through approaches to architecture					
Evaluation methods	Architectural design : jury at the end of the 10 weeks (group work) Individual notebook to be done in january					
Teaching methods	Lectures Architecture workshop Personal research					
Content	It is about design experimentation combined to a research of coherence between technique (structure and construction) and architecture resting on a construction material. <i>Key-words: architecture, material, (concept of) structure, (detail of) construction, synergy.</i>					

	The aim is:					
	 to elaborate and concretise an architectural idea and to bring an architectural idea to a constructible state in order to define the architectural project. to study the material in all of its dimensions and its link to its physical, economical and technical environment to take conscience of the structural choices and the establishment of the construction modes in ordre to improve the creative development of the architectural design. 					
Inline resources	slideshows and documentations are downloadable on moodle					
	• Construire en bois					
Bibliography	T. Herzog, J. Nattere, R. Schweitzer, M. Volz, W. Winter,					
	Birkhaüser, Birkhaüser, PPUR, 2012					
	Construire l'architecture					
	Andrea Deplazes, Birkhauser,					
	Faire Tenir : Structure et Architecture					
	Marc Leyral, 2021					
	Form and Forces: Designing Efficient, Expressive Structures					
	Edward Allen & Waclaw Zalewsk, 2009					
	• Franchir le vide. A pied et à vélo					
	Ney & Partners. Archibooks					
	• Informal					
	Cecil Balmond, Prestel, 2002					
	• Mémoire d'un ingénieur					
	Peter Rice, Le Moniteur, Paris, 1998.					
	Metamorphism, Material change in architecture					
	Akos Moravansky, Birkhäuser, Basel, 2018					
	• Process and pattern in architecture and design					
	Luisa Collina, Silvana, 2016, Milano					
	Question d'architecture Structure					
	Bernard Wittevrongel (dir), Projets 2016-2018, UCL LOCI 2019.					
	• Seven bridges by Jürg Conzett					
	Jürg Conzett, Zürich: Verlag Scheidegger & Spiess, 2013.					
	Structure as Space					
	Mohsen Mostafavi, AA editions, 2006, London.					
	Studies in Tectonic Culture					
	Kenneth Frampton, MIT Press, Cambridge, London, 1996.					
	• Wood and Wood Joints					
	Klaus Zwerger, Birkhäuser, Basel, 2000.					
Faculty or entity in	LOCI					
charge						

Programmes containing this learning unit (UE)								
Program title	Acronym	Credits	Prerequisite	Learning outcomes				
Master [120] in Architecture (Tournai)	ARCT2M	8		۹				
Master [120] in Architecture (Bruxelles)	ARCB2M	8		٩				