

3.00 credits

30.0 h

Q1

Teacher(s)	Laloux Olivier ;
Language :	French
Place of the course	Tournai
Main themes	<p>This teaching unit is designed to develop transferable and practical skills in the fields of Construction, Materials and Facilities.</p> <p>In particular, it is designed to develop extensive familiarity with the documentation of technical, scientific and regulatory references and professional communication tools (specifications and graphic material).</p> <p>It also aims to develop a global overview of materials and techniques involved in the process of building.</p>
Learning outcomes	<p>At the end of this learning unit, the student is able to :</p> <p>This teaching unit particularly focuses on three axes in the profile of the holder of a Master's degree in Architecture: giving concrete expression to a technical dimension, making use of other disciplines and adopting a professional approach.</p> <p>Specific learning outcomes:</p> <p>By the end of this course, students will be able to</p> <ul style="list-style-type: none"> • make use of technical, scientific and regulatory documentation relating to building materials and techniques and HVAC systems. • develop and comprehensive proposal for construction systems and facilities which is appropriate for the properties of a site and an architectural project. • manage complex construction projects (details), using the interface of different techniques. • produce documents conveying an architectural proposal to professionals (specifications, drawings, etc.). <p>Contribution to the learning outcomes reference network:</p> <p>1 Use the technical dimension</p> <ul style="list-style-type: none"> • Be familiar with and interpret the main technical principles of construction • Observe and assess the main construction principles that give architecture a formal, material and temporal 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 <p>Express an architectural procedure</p> <ul style="list-style-type: none"> • Express ideas clearly in oral, graphic and written form <p>Adopt a professional attitude</p> <ul style="list-style-type: none"> • Organise, plan, develop and bring together the different strands of individual or collective work • Test and observe the framework of professional practice and to architectural knowledge through independent involvement
Evaluation methods	<ul style="list-style-type: none"> • Written, drawing exam. • Continuous evaluation.
Teaching methods	<ul style="list-style-type: none"> • Lectures. • Case-studies. • Exercices.
Inline resources	The slideshows and all of the documents are available on moodle.

Bibliography	<ul style="list-style-type: none"> • Andrea Deplazes, <i>Construire l'architecture</i>, Birkhäuser, 2013, Bâle • Alexander Reichel, Kerstin Schultz, <i>Support / Materialise</i>, Birkhäuser, 2013, Bâle • Bert Bielefeld, <i>Basics building construction</i>, Birkhäuser, 2015, Bâle • Kenneth Frampton, <i>Studies in Tectonic Culture</i>, MIT Press, Cambridge, London, 1996. • Edward R. Ford <i>The details of modern architecture</i>. MIT Press Cambridge, London, 1994. • Peter Rice, <i>Mémoire d'un ingénieur</i>, Le Moniteur, Paris, 1998. • Cecil Balmond, <i>Informal</i>, Prestel, 2002 • STAIB, DÖRRHÖFER, ROSENTHAL, <i>Components and Systems</i> • <i>Modular Construction Edition Detail</i> Birkhäuser 2008
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	3		