

Due to the COVID-19 crisis, the information below is subject to change, in particular that concerning the teaching mode (presential, distance or in a comodal or hybrid format).

3 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>
Aims	<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 <p>-----</p> <p><i>The contribution of this Teaching Unit to the development and command of the skills and learning outcomes of the programme(s) can be accessed at the end of this sheet, in the section entitled "Programmes/courses offering this Teaching Unit".</i></p>
Evaluation methods	<p>Due to the COVID-19 crisis, the information in this section is particularly likely to change.</p> <ul style="list-style-type: none"> • Written, drawing exam. • Continuous evaluation.
Teaching methods	<p>Due to the COVID-19 crisis, the information in this section is particularly likely to change.</p> <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, Construire l'architecture, Birkhäuser, 2013, Bâle• Alexander Reichel, Kerstin Schultz, Support I Materialise, Birkhäuser, 2013, Bâle• Bert Bielefeld, Basics building construction, Birkhäuser, 2015, Bâle
Faculty or entity in charge	LOCI

Programmes containing this learning unit (UE)				
Program title	Acronym	Credits	Prerequisite	Aims
Master [120] in Architecture (Tournai)	ARCT2M	3		