


6.00 credits

60.0 h

Q1


**This biannual learning unit is not being organized in 2026-2027 !**

Language :	French
Place of the course	Tournai
Main themes	<p>Today, the unsustainable use of materials is increasingly scrutinized, urging a more thoughtful approach to their application based on their inherent properties. This course explores the relationship between materials and spatial structures, examining how material choices impact load-bearing structures across all dimensions—from design to execution. The process includes the creation of digital or physical models, culminating in the construction of a 1:1 scale prototype.</p>
Learning outcomes	<p><b>At the end of this learning unit, the student is able to :</b>  <b><u>Specific Learning Outcomes</u></b></p> <p>By the end of this course, students will be able to:</p> <ul style="list-style-type: none"> <li>• Assess building materials with a deeper understanding of their fundamental properties,</li> <li>• Integrate structural and construction choices to inform and enhance architectural concepts,</li> <li>• Apply materials creatively and innovatively in construction processes,</li> <li>• Establish connections between materials and architecture to imbue exploratory activities with purpose and meaning.</li> </ul> <p><b><u>General Learning Outcomes</u></b></p> <p>In line with the program's learning outcomes (LOs), this course contributes to the development and acquisition of the following LOs:</p> <ul style="list-style-type: none"> <li>• LO2.4 Inventively illustrate construction logics.</li> <li>• LO3.2 Understand and apply the construction and technical processes related to architecture.</li> <li>• LO3.3 Understand and integrate scientific and technical knowledge to realize an architectural project.</li> <li>• LO3.4 Understand and assess the environmental, social, and economic consequences of construction and technical choices.</li> <li>• LO4.1 Understand and mobilise the concepts and methods of scientific disciplines.</li> <li>• LO5.3 Organize individual or collective work attentively, inclusively, and effectively.</li> </ul>
Faculty or entity in charge	LOCI

<b>Programmes containing this learning unit (UE)</b>				
Program title	Acronym	Credits	Prerequisite	Learning outcomes
Master [120] in Architecture (Tournai)	ARCT2M	6		
Master [120] in Architecture (Bruxelles)	ARCB2M	6		