

Teacher(s)	De Groote Geert ;
Language :	French
Place of the course	Tournai
Main themes	This course provides a comprehensive overview of the primary materials and components used to give formal expression to an architectural project, resulting in a functional and high-quality building. By analyzing and using representation codes for fundamental elements and key materials, the course establishes the principles underlying commonly accepted construction methods. Additionally, by emphasizing environmentally friendly solutions, the course introduces the objective of sustainable construction.
Learning outcomes	<p>At the end of this learning unit, the student is able to : <u>Specific Learning Outcomes</u></p> <p>By the end of this course, students will be able to:</p> <ul style="list-style-type: none"> • Utilize technical terminology and apply graphic conventions related to construction techniques, • Formulate and interpret the physical and constructive properties of building materials and components, • Describe and evaluate different construction systems and installation procedures based on the physical properties of building materials and components, • Create technical details for horizontal and vertical envelopes, addressing construction, insulation, and waterproofing requirements, • Assess the environmental impact of materials and construction methods that promote sustainability. <p><u>General Learning Outcomes</u></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"> • LO2.1 Acquire and proficiently apply the conventions of representation in two and three dimensions. • LO2.4 Proficiently illustrate construction logics. • LO3.2 Acquire and explain the construction and technical processes related to architecture. • LO3.3 Acquire and apply scientific and technical knowledge to realize an architectural project. • LO3.4 Acquire and explain the environmental, social, and economic consequences of construction and technical choices. • LO4.3 Learn and apply the content of artistic or scientific disciplines to enrich the architectural project. • LO4.4 Learn and explain the environmental, social, and economic consequences of architectural choices.
Evaluation methods	<p>June examination session Assessment of thematic exercises throughout the term: 10% of marks Written examination, consisting of two parts: - drawing of a detail: 50% of marks - a series of theory questions: 40% of marks</p> <p>August examination session Written examination, consisting of two parts: - drawing of a detail: 60% of marks - a series of theory questions: 40% of marks</p>
Teaching methods	Theoretical presentations and case studies Thematic exercises
Content	Based on material properties and general construction principles, the following topics are covered: - Shallow foundations - Vertical and horizontal walls - Flat roofs and pitched roofs
Faculty or entity in charge	LOCI

Programmes containing this learning unit (UE)				
Program title	Acronym	Credits	Prerequisite	Learning outcomes
Bachelor in Architecture (Tournai)	ARCT1BA	5		