

Pedagogical Commitments – Academic Year 2025/2026, Semester 1

DEPARTMENT: **Architecture**
COURSE TITLE: **Architectural Structures 1**
WEEKLY HOURS: **1.5 hours Lecture + 1.5 hours Tutorial**
UNIT AND COEFFICIENT: **Fundamental Unit (EF), Coefficient 2**
PROGRAM: **3rd Year Architecture**
INSTRUCTOR: **TABET DERRAZ Moulay Idriss**
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COURSE LANGUAGE: **French / English**

PREREQUISITES

Strength of Materials, basic knowledge of construction.

OBJECTIVES

Architecture must fulfill its intended functions while expressing culture. The necessity of structure — ensuring the rigidity and resistance of buildings — is evident. Structure is inseparable from architecture; it is a fundamental element of architectural expression, even when hidden.

ASSESSMENT

The assessment methods comply with the official regulatory provisions and the internal student regulations of the Faculty of Technology, Abou-Bekr Belkaïd University of Tlemcen

Tests + Presentations + Attendance (Continuous Assessment)

Final Exam

Final Grade: 40% Continuous Assessment and 60% Final Exam
(Eliminatory grade: 07/20)

COURSE CONTENT

Chapter 1: Fundamentals of Construction Systems

Chapter 2: Linear Horizontal Spanning (Beams, Arches)

Chapter 3: Planar Horizontal Spanning (Slabs, Floors)

Chapter 4: Spatial Horizontal Spanning (Domes, Vaults)

Chapter 5: Introduction to Bridges

BIBLIOGRAPHIC REFERENCES

1. Le béton armé selon les eurocodes 2 (Dunod 2010)
2. Calcul des structures en béton armé (Eyrolles 2013)
3. Dimensionnement des structures en béton selon l'eurocode 2 (Le moniteur 2010)
4. Structures en béton armé (Eyrolles 2011).