

arc 132
Spring '20

architectural technology I
10:00 - 12:20 Thu

4 ects

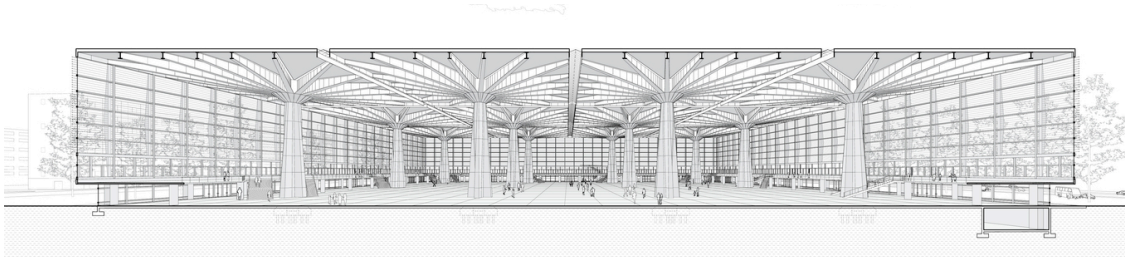


image: palace of labor, turin, book: manual of section, 2016

The goal of this course is to provide an introduction to structural technology in architecture.

grading

- Performance in Course, (In-Class Activity, Initiative) 50 Points
- Sketchbooks 50 Points

line-up of units

1. STRUCTURE & FORM (CONCEPT, FORMS, MATERIALS, BIOMIMICRY) [page 16-17](#)
2. STRUCTURE & ARCHITECTURE & PHYSICS (FORCES - REACTIONS) [page 18-19](#)
3. STRUCTURES - ARCHITECTURE - MATERIALS (CONTEMPORARY ARCHITECTURE)
Sketchbook Assignment 1
4. STRUCTURE & ARCHITECTURE (CONCEPTS & REVIEW) [glossary](#)
5. STRUCTURE & ARCHITECTURE & PHYSICS (INTERNAL FORCES - REACTIONS)

6. STRUCTURES - ARCHITECTURE - MATERIALS (CONTEMPORARY ARCHITECTURE) timber [page 27](#)
7. STRUCTURES - ARCHITECTURE - MATERIALS (CONTEMPORARY ARCHITECTURE) timber
8. STRUCTURES - ARCHITECTURE - MATERIALS (CONTEMPORARY ARCHITECTURE) steel
9. STRUCTURES - ARCHITECTURE - MATERIALS (CONTEMPORARY ARCHITECTURE) steel
10. STRUCTURES - ARCHITECTURE - MATERIALS (CONTEMPORARY ARCHITECTURE) concrete
11. STRUCTURES - ARCHITECTURE - MATERIALS (CONTEMPORARY ARCHITECTURE) concrete
12. STRUCTURES - ARCHITECTURE - MATERIALS (CONTEMPORARY ARCHITECTURE) plastics-tensile
13. STRUCTURES - ARCHITECTURE - MATERIALS (CONTEMPORARY ARCHITECTURE) plastics-tensile
14. STRUCTURE & ARCHITECTURE (CONCEPTS & REVIEW) [glossary](#)

attendance required! 3 no shows = FZ !

kick-off literature

- Silver, McLean, Whitsett (2013) *Introduction to Architectural Technology*, Laurence King, London
- Allen, Zalewski(2010) *Form and Forces*, Wiley, NJ
- Meistermann A (2010) *Taşıyıcı Sistemler*, YEM Yayın, İstanbul
- Hegger, M., Drexler, H. And Zeumer, M. (2007) *Basics Materials (Basics Series)*, Birkhäuser GmbH.
- Lewis, P., Tsurumaki, M. and Lewis, D.J. (2016) *Manual of Section*. Princeton University Press.