

**Course name:** BUILDING MATERIALS AND CHEMISTRY  
**Course code:** YCRÉPKÉBNF  
2 lectures / 0 practice / 2 laboratory / Exam/ 7 credit  
**Department:** Department of Fire Safety and Construction Materials  
**In charge:** Dr FEHÉRVÁRI Sándor PhD, Assoc. Prof., Head of the Department

OBJECTIVE OF THE COURSE:

Students become familiar with the basic mechanical and physical properties of construction materials. Basic physical, mechanical, and hydromechanical properties of binder materials, aggregates, concrete, and mortar.

12-14 WEEKS SCHEDULE:

1. week: Physical and mechanical parameters of the building materials
2. week: Mechanical and rheological properties
3. week: Binder materials. Types, properties, usages.
4. week: Binder materials. Types, properties, usages.
5. week: Aggregates. Types, properties, usages.
6. week: Aggregates. Types, properties, uses.
7. week: Chemistry of building materials
8. week: Concrete mix design
9. week: Properties of the fresh concrete
10. week: Properties of the hardened concrete
11. week: Mortars

*Assignment:*

Two midsemester tests, homework, exam

