



BUILDING CONSTRUCTION ENGINEERING



ALMA MATER STUDIORUM
UNIVERSITÀ DI BOLOGNA
CAMPUS DI RAVENNA



FONDAZIONE FLAMINIA
PER L'UNIVERSITÀ
IN ROMAGNA



FIRST CYCLE DEGREE – 3 YEARS

Open-access Degree

LOCATION: RAVENNA

GENERAL OVERVIEW & PROGRAMME AIM

- The Bachelor's Degree Course in Building Construction Engineering derives from the internationalization process of the "Corso in Ingegneria Edile" held at the Ravenna campus by the University of Bologna
- This 3-year course, entirely delivered in English, is focused on the Building itself, and aims to train engineers with wide-ranging international professional experience
 - Students are provided with the technical and scientific skills characteristic of the Construction Engineer profile who works as a designer, manager of the design, production and use of buildings and infrastructures
 - The profession is that one of building-works designer and technician with management and coordination skills of professional and entrepreneurial structures (project manager)
- The qualification gives access to second cycle studies (Master's degree courses) and 1st level University Professional Masters

JOB OPPORTUNITIES

- Professional engineering firms and/or engineering companies
- Private companies (technical, commercial and production structures)
- Building and infrastructure construction companies
- Public Administrations and Bodies (Urban Planning and Public Works Offices, Superintendencies and Regional Directorates of Cultural and Landscape Heritage, local authorities, Territorial Agencies, Civil Engineering Offices, Fire Brigade, Civil Motorization ...)
- Production companies of building components and materials
- Manufacturing industries for the design, production, installation of building components and materials



ADMISSION

- **TOLC-I** → <https://www.unibo.it/en/teaching/enrolment-transfer-and-final-examination/test-online-cisia-tolc-1/test-online-cisia-tolc-general-information>
- **SAT** → <https://satsuite.collegeboard.org/sat>



1st year**Mandatory courses (CFU)**

Mathematical Analysis T-1 (9)
 Chemistry and Technology of Materials (9)
 Applied Geology (6)
 Applied Economic Analysis (6)
 Analysis of Urban and Territorial Systems (6)
 Mathematical Analysis T-2 (6)
 Drawing and CAD (9)
 General Physics (9)

2nd year**Mandatory courses (CFU)**

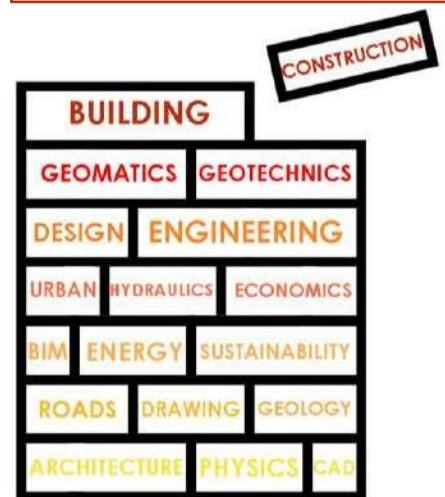
Building Physics and Energy Efficient Building Design (12)
 Architectural Technology (12)
 Construction of Urban and Metropolitan Roads (6)
 Building Information Modeling BIM (6)
 Hydraulics (6)
 Typological, Morphological and Distributive Characters of Buildings – Lab (6)
 Principles of Structural Mechanics (12)

3rd year**Mandatory courses (CFU)**

Principles of Geotechnics (6)
 Principles of Structural Engineering (12)
 Sustainable Building Assessment (6)
 Geomatics Engineering (12)
 Building Design Research – Lab (9)
Courses freely chosen by the students* (12-18)
 Final Examination (3)

Courses freely chosen (suggestions) – at least 12 CFU

Numerical Methods (12)
 Sustainable Urban Design and Planning Workshop (12)
 Consolidation, Improvement and Restoration of Traditional Architecture (6)
 The Human Settlements through History: Construction, Materials and Theories (6)
 Urban Water Supply and Drainage Networks (6)
 Sustainability in Construction (6)
 Information Literacy in English – Ravenna (3)

**LEARNING PATH****2 cycle of lessons**

- End of September – end of December
- End of February – beginning of June

Learning Activities

- Frontal lessons
- Laboratories
- Training sessions

**PLACE OF TEACHING:**

<https://corsi.unibo.it/1cycle/Building>

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