



ANNEX 1.1

DEGREE PROGRAM DIDACTIC REGULATIONS

CIVIL AND ENVIRONMENTAL ENGINEERING

CLASS L-7

School: Polytechnic and Basic Sciences

Department: Civil, Architectural and Environmental Engineering

Didactic Regulations in force since the academic year 2024-25

STUDY PLAN

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Type of Educational Activity (TAF):

A = Basic

- **B** = Characterising
- **C** = Related or Supplementary
- **D** = At the student's choice

E = Final examination and language knowledge

F = Further training activities

| Year I | | | | | | | | | |
|--|---------|--------|---------|-------|---|--|-----|--|------------------------|
| Course Title ⁽¹⁾ | SSD | Module | Credits | Hours | Type Activities (lectures, workshops, etc.) | Course Modaliti es (in-person, by distance) | TAF | Disciplinary area | Mandatory/ optional |
| l term | | | | | | | | | |
| Basic mathematics and analysis | MAT/05 | single | 12 | 96 | Frontal lesson | In-person | A | Mathematics, Informatics, Statistics | Mandatory |
| Chemistry | CHIM/07 | single | 6 | 48 | Frontal lesson | In-person | А | Physics and Chemistry | Mandatory |
| ll term | | | | | | | | | |
| Soft skills | - | single | 6 | 48 | Frontal lesson | In-person | F | Further training activities | Mandatory |
| Digital representation and modelling | ICAR/17 | single | 6 | 48 | Frontal lesson | In-person | С | Related or Supplementary | Mandatory |
| BIM laboratory | - | single | 3 | 24 | Laboratory | In-person | F | Further training activities | Mandatory |
| General physics | FIS/01 | single | 9 | 72 | Frontal lesson | In-person | А | Physics and Chemistry | Mandatory |

| Linear algebra and Geometry | MAT/03 | single | 6 | 48 | Frontal lesson | In-person | A | Mathematics, Informatics, Statistics | Mandatory |
|--|---------|--------|---------|-------|---|--|-----|--|-------------------------|
| Laboratory of data analysis | - | single | 3 | 24 | Laboratory | In-person | F | Further training activities | Mandatory |
| Foreign Language (1) | - | single | 3 | - | - | - | F | - | Mandatory |
| Year II | | | | | | | | | |
| Course Title | SSD | Module | Credits | Hours | Type Activities (lectures, workshops, etc.) | Course Modaliti es (in-person, by distance) | TAF | Disciplinary area | Mandatory/ optional |
| l term | | | | | | | | | |
| Mathematical analysis II | MAT/05 | single | 6 | 48 | Frontal lesson | In-person | A | Mathematics, Informatics, Statistics | Mandatory |
| Mathematical Physics | MAT/07 | single | 6 | 48 | Frontal lesson | In-person | A | Mathematics, Informatics, Statistics | Mandatory |
| Engineering geology | GEO/05 | single | | 48 | Frontal | In-person | | Environmental | Mandatory |
| Surveying and Mapping | ICAR/06 | single | 6 | 48 | lesson | In-person | В | Engineering | (one of your choice) |
| Transportation Engineering | ICAR/05 | single | 9 | 72 | Frontal lesson | In-person | В | Civil Engineering | Mandatory |
| ll term | | | | | | | | | |
| Structural Mechanics | ICAR/08 | single | 9 | 72 | Frontal lesson | In-person | В | Civil Engineering | Mandatory |
| Laboratory of computational mechanics | - | single | 3 | 24 | Laboratory | In-person | F | Further training activities | Mandatory |
| Hydraulics | ICAR/01 | single | 9 | 72 | Frontal lesson | In-person | В | Environmental Engineering | Mandatory |
| Sanitation and Environmental engineering | ICAR/03 | single | 9 | 72 | Frontal lesson | In-person | В | Environmental Engineering | Mandatory |

| Year III | | | | | | | | | |
|--|---------|--------|---------|-------|--|---|-----|-----------------------------|-------------------------|
| Course Title | SSD | Module | Credits | Hours | Type Activities (lectures, workshops etc.) | Course Modalities (in-person, by distance) | TAF | Disciplinary area | Mandatory/ optional |
| l term | | | | | | | | | |
| Structural engineering I | ICAR/09 | single | 9 | 72 | Frontal lesson | In-person | В | Safety Engineering | Mandatory |
| Geotechnical Engineering | ICAR/07 | single | 9 | 72 | Frontal lesson | In-person | В | Safety Engineering | Mandatory |
| Highway Engineering | ICAR/04 | single | 9 | 72 | Frontal lesson | In-person | В | Civil Engineering | Mandatory |
| ll term | | | | | | | | | |
| Building engineering | ICAR/10 | single | 6 | 48 | Frontal lesson | In-person | С | Related or Supplementary | Mandatory |
| Infrastructure Systems in Urban Water Management | ICAR/02 | single | 9 | 72 | Frontal lesson | In-person | В | Civil Engineering | Mandatory |
| Coastal Engineering | ICAR/02 | single | | 48 | | In-person | | | |
| Circular Bioeconomy for Ecological Transition | ICAR/03 | single | | 48 | | In-person | | | Mandaton |
| Resilience of Transportation Systems | ICAR/05 | single | 6 | 48 | Frontal lesson | In-person | С | Related or Supplementary | (one of your choice) |
| Technologies in geotechnical engineering | ICAR/07 | single | | 48 | | In-person | | | |

| Structural engineering II | ICAR/09 | single | | 48 | | In-person | | | |
|---|------------|--------|----|-----|-------------------|-----------|---|-------------------------------|-------------------------|
| Spatial analysis and urban planning | ICAR/20 | single | | 48 | | In-person | | | |
| Applied thermodynamics, energy and heat transfer | ING-IND/10 | single | | 48 | | In-person | | | |
| Free choice ⁽²⁾ | - | - | 18 | 144 | Frontal lesson | In-person | D | At the student's choice | At the student's choice |
| Final test | - | | 3 | - | - | - | E | | Mandatory |

List of propaedeutic ties

| Course | Propaedeutic course(s) | | | | | |
|--|---|--|--|--|--|--|
| | | | | | | |
| Mathematical analysis II | Basic mathematics and analysis | | | | | |
| Hydraulics | Mathematical analysis II, General physics | | | | | |
| Mathematical Physics | Basic mathematics and analysis, Linear algebra and Geometry | | | | | |
| Transportation Engineering | Basic mathematics and analysis, Linear algebra and Geometry | | | | | |
| Structural Mechanics | General physics, Mathematical analysis II, Mathematical Physics | | | | | |
| Laboratory of computational mechanics | Structural mechanics | | | | | |
| Geotechnical engineering | Mathematical analysis II, General physics | | | | | |
| Structural engineering I | Structural mechanics | | | | | |
| Infrastructure Systems in Urban Water Management | Hydraulics | | | | | |
| Technologies in geotechnical engineering | Geotechnical engineering | | | | | |
| Structural engineering II | Structural engineering I | | | | | |
| Applied thermodynamics, energy and heat transfer | Basic mathematics and analysis, General physics | | | | | |

Annotation

- (1) Foreign Language: Italian Language for International students and English Language for Italian students.
- (2) The congruence of the chosen courses with the educational objectives of the Degree Program is ascertained by the Didactic Coordination Committee. A list of suggested courses for automatic approval will be indicated by the CCD in the Student's Guide published on the Degree Program website.