

University of Pavia

Study Course: CIVIL ENGINEERING FOR MITIGATION OF RISK FROM NATURAL HAZARDS - 06418

Classe LM-23 Ingegneria civile

Regulations 2017/2018 - Course Regulations a.y. 2023/2024

Study Plan academic year 2023/2024

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|------------------------|---------------------|
| STUDENT NUMBER N. | SURNAME- NAME |
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TRACK 01 - REDUCTION OF SEISMIC RISK (ROSE)

1° Year - academic year 2023/2024

| Learning Activity | CFU | N° | N° (ind.) | Compulsory | Scientific Area | Type of learning activity | Period |
|---|-----|----|-----------|------------|-----------------|---------------------------|-----------------|
| 508173 - DYNAMICS OF STRUCTURES | 6 | 1 | | X | ICAR/08 | Distinctive | First Semester |
| 508174 - REINFORCED CONCRETE STRUCTURES | 6 | 2 | | X | ICAR/09 | Distinctive | First Semester |
| 508171 - APPLIED MATHEMATICS | 6 | 3 | | X | MAT/08 | Related/Supplementary | First Semester |
| 508175 - COMPUTATIONAL MECHANICS | 6 | 4 | | X | ICAR/08 | Distinctive | First Semester |
| 508176 - FOUNDATION ENGINEERING AND EARTH RETAINING STRUCTURES | 6 | 5 | | X | ICAR/07 | Distinctive | Second Semester |
| 508172 - PROBABILITY AND STATISTICS FOR ENGINEERING APPLICATIONS | 6 | 6 | | X | ICAR/09 | Distinctive | First Semester |
| 508177 - SEISMIC HAZARD AND GEOTECHNICAL EARTHQUAKE ENGINEERING | 12 | 7 | | X | | | Second Semester |
| Unità Didattiche di SEISMIC HAZARD AND GEOTECHNICAL EARTHQUAKE ENGINEERING | | | | | | | |
| 508178 - SEISMIC HAZARD AND APPLIED SEISMOLOGY | 6 | | | | GEO/10 | Related/Supplementary | Second Semester |
| 508179 - GEOTECHNICAL EARTHQUAKE ENGINEERING | 6 | | | | ICAR/07 | Distinctive | Second Semester |
| 508180 - ADVANCED STRUCTURAL ANALYSIS AND FUNDAMENTALS OF SEISMIC DESIGN | 12 | 8 | | X | | | Second Semester |
| Unità Didattiche di ADVANCED STRUCTURAL ANALYSIS AND FUNDAMENTALS OF SEISMIC DESIGN | | | | | | | |
| 508181 - NONLINEAR RESPONSE ANALYSIS | 6 | | | | ICAR/09 | Distinctive | Second Semester |
| 508182 - FUNDAMENTALS OF SEISMIC DESIGN | 6 | | | | ICAR/09 | Distinctive | Second Semester |
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| TOT. 60 CFU | | | | | | | |

2° Year - academic year 2024/2025

| Learning Activity | CFU | N° | N° (ind.) | Compulsory | Scientific Area | Type of learning activity | Period |
|--|-----|----|-----------|------------|-----------------|---------------------------|----------------|
| 508185 - MASONRY STRUCTURES | 6 | 9 | | X | ICAR/09 | Distinctive | First Semester |
| 508186 - BRIDGE STRUCTURES | 6 | 10 | | X | ICAR/09 | Distinctive | First Semester |
| 509688 - RISK ASSESSMENT AND LOSS ESTIMATION | 6 | 11 | | X | ICAR/09 | Distinctive | First Semester |
| FREE CHOICE FROM THE UNIVERSITY COURSE OFFER | 12 | 12 | | | | Optional | |

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| 508189 - STEEL STRUCTURES | 6 | 12 | | | ICAR/09 | Optional | First Semester |
| 509689 SEISMIC ISOLATION AND DISSIPATION | 6 | 12 | | | ICAR/09 | Optional | First Semester |
| 508193 - RISK EMERGENCY MANAGEMENT AND LEGISLATION | 6 | 12 | | | IUS/02 | Optional | First Semester |
| 508194 - ENGINEERING GEOLOGY | 6 | 12 | | | GEO/05 | Optional | First Semester |
| 509536 - ITALIAN LANGUAGE FOR FOREIGN STUDENTS | 3 | | | | NN | Other | First Semester |
| 508207 - PROJECT WORK | 3 | | | | NN | Other | Second Semester |
| 503327 - MASTER THESIS | 27 | | | X | PROFIN_S | Final Exam | |
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| TOT. 60 CFU | | | | | | | |

TRACK 02 - HYDROGEOLOGICAL RISK ASSESSMENT AND MITIGATION (HYRIS)

1° Year - academic year 2023/2024

| Learning Activity | CFU | N° | N° (ind.) | Compulsory | Scientific Area | Type of learning activity | Period |
|--|-----|----|-----------|------------|-----------------|---------------------------|-----------------|
| 508196 - CONTINUUM MECHANICS | 6 | 1 | | X | ICAR/01 | Distinctive | First Semester |
| 508069 - FLUVIAL HYDRAULICS | 6 | 2 | | X | ICAR/01 | Distinctive | First Semester |
| 508171 - APPLIED MATHEMATICS | 6 | 3 | | X | MAT/08 | Related/Supplementary | First Semester |
| 508197 - ENGINEERING GEOLOGY AND HYDROMORPHOLOGY | 12 | 4 | | X | | | First Semester |
| Unità Didattiche di ENGINEERING GEOLOGY AND HYDROMORPHOLOGY | | | | | | | |
| 508194 - ENGINEERING GEOLOGY | 6 | | | | GEO/05 | Related/Supplementary | First Semester |
| 508198 - HYDROMORPHOLOGY | 6 | | | | GEO/04 | Related/Supplementary | Second Semester |
| 508172 - PROBABILITY AND STATISTICS FOR ENGINEERING APPLICATIONS | 6 | 5 | | X | ICAR/09 | Distinctive | First Semester |
| 508199 - LANDSLIDES HAZARD AND RISK | 6 | 6 | | X | GEO/05 | Related/Supplementary | Second Semester |
| 508200 - GEOMATICS AND GIS | 6 | 7 | | X | GEO/04 | Related/Supplementary | All Year |
| 508201 - COMPUTATIONAL FLUID DYNAMICS | 6 | 8 | | X | ICAR/01 | Distinctive | Second Semester |
| FREE CHOICE FROM THE UNIVERSITY COURSE OFFER | 6 | 9 | | | | Optional | |
| 508081 - SNOW AVALANCHES AND RELATED MOUNTAIN NATURAL HAZARDS | 6 | 9 | | | ICAR/02 | Optional | Second Semester |
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| | | | | | | | |
| TOT. 60 CFU | | | | | | | |

2° Year - academic year 2024/2025

| Learning Activity | CFU | N° | N° (ind.) | Compulsory | Scientific Area | Type of learning activity | Period |
|-----------------------------|-----|----|-----------|------------|-----------------|---------------------------|----------------|
| 508202 - HYDROLOGICAL RISKS | 6 | 10 | | X | ICAR/02 | Distinctive | First Semester |

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| 510798 - FLOOD PROPAGATION AND FLUVIAL PROTECTION WORKS | 12 | 11 | | X | | | All Year |
| Unità Didattiche di FLOOD PROPAGATION AND FLUVIAL PROTECTION WORKS | | | | | | | |
| 507329 - FLOOD PROPAGATION | 6 | | | | ICAR/02 | Distinctive | First Semester |
| 510802 - FLUVIAL PROTECTION WORKS | 6 | | | | ICAR/01 | Distinctive | Second Semester |
| 509634 - RELIABLE DESIGN AND MANAGEMENT OF URBAN HYDRAULIC INFRASTRUCTURES | 6 | 12 | | X | ICAR/02 | Distinctive | First Semester |
| FREE CHOICE FROM THE UNIVERSITY COURSE OFFER | 6 | 13 | | | | Optional | |
| 508176 - FOUNDATION ENGINEERING AND EARTH RETAINING STRUCTURES | 6 | 13 | | | ICAR/07 | Optional | Second Semester |
| 508193 - RISK EMERGENCY MANAGEMENT AND LEGISLATION | 6 | 13 | | | IUS/02 | Optional | First Semester |
| 509321 - LANDSLIDE MODELING AND MITIGATION STRATEGIES | 6 | 13 | | | ICAR/07 | Optional | First Semester |
| 509536 - ITALIAN LANGUAGE FOR FOREIGN STUDENTS | 3 | | | | NN | Other | First Semester |
| 508207 - PROJECT WORK | 3 | | | | NN | Other | Second Semester |
| 503327 - MASTER THESIS | 27 | | | X | PROFIN_S | Final Exam | |
| | | | | | | | |
| | | | | | | | |
| TOT. 60 CFU | | | | | | | |

- [The semester assigned to each learning activity may change. Refer to the time schedule published in the faculty website for confirmation](#)
- [For more information please refer to the course catalogue](#)

Date

Signature

The study plan is not to be modified. Students can apply for an exception but they have to submit a valid motive. When a student submit a change which is not proposed in a standard study plan, the study plan becomes an individual study plan.

In order to do so, draw a line on the subject you wish to change, add the new subject in the orange boxes at the end of the study plan.

Insert the progressive number assigned to the subject you wish to change.

Please note that a revenue stamp of 16€ is due to apply for an individual study plan. This new plan will have to be approved by the committee designated by the competent Teaching Council.