



UNIVERSITÀ DI PAVIA

DIPARTIMENTO DI INGEGNERIA CIVILE E ARCHITETTURA

DEPARTMENT OF INGEGNERIA CIVILE E ARCHITETTURA

Corso di Laurea Magistrale in

Master's Degree in

CIVIL ENGINEERING FOR MITIGATION OF RISK FROM NATURAL HAZARDS

PIANO DI STUDIO PER GLI ISCRITTI AL 1° ANNO – DM 270/'04 ANNO ACCADEMICO 2026/2027

STUDY PLAN FOR STUDENTS ENROLLED IN 1° YEAR – DM 270/04 ACADEMIC YEAR 2026/2027

La/Il sottoscritto/a / *The undersigned,*

Matricola / *Matriculation number*

Cognome / *Surname* Nome / *Name*

Nata/o a / *Born in (city)* Prov./ *State* il / *on*

Residente in / *Resident in (city)* Prov./ *State*

CAP / *Postal code* Via o Piazza / *Street name*

N. civico / *number* Tel. / *Phone*

Corso di Laurea Magistrale in CIVIL ENGINEERING FOR MITIGATION OF RISK FROM NATURAL HAZARDS

Master's Degree in CIVIL ENGINEERING FOR MITIGATION OF RISK FROM NATURAL HAZARDS

prevede i seguenti percorsi: / *includes the following tracks:*

- PERCORSO 01 - REDUCTION OF SEISMIC RISK (ROSE)

- PERCORSO 02 - HYDROGEOLOGICAL RISK ASSESSMENT AND MITIGATION (HYRIS)

Gli studenti che intendono effettuare scelte diverse che si discostano dal modello di piano di studi che segue presenteranno un piano di studi individuale (per il quale è prevista una marca da bollo da euro 16,00 che verrà generata dagli uffici). Maggiori informazioni sono disponibili sulla pagina dedicata <https://portale.unipv.it/it/didattica/corsi-di-laurea/studiare/piani-di-studio> nella sezione Eccezioni: il piano cartaceo.

Students who wish to make choices not provided by the following form should submit an individual study plan (in this case administrative offices will generate a fee of €16 for an extra revenue stamp). More information is available at the dedicated webpage: <https://portale.unipv.it/it/didattica/corsi-di-laurea/studiare/piani-di-studio> in the section "Exceptions: Study plan submitted in paper form".

APPROVATO NELLA RIUNIONE DEL CONSIGLIO DIDATTICO/CONSIGLIO DI DIPARTIMENTO DEL / *Approved in the session*
of the Teaching Council/Department Council on

SI DICHIARA LA CONFORMITA' DEL PIANO INDIVIDUALE ALL'ORDINAMENTO DIDATTICO DEL CORSO DI STUDIO IN RELAZIONE
ALLA COORTE DI APPARTENENZA DELLO STUDENTE (SCHEDA RAD). / *It is declared that the individual plan follows the course*
regulations depending on the student's year of enrollment (RAD form).

FIRMA DEL REFERENTE DEL CORSO DI LAUREA MAGISTRALE/ *Signature of the Program Coordinator*

.....

TRACK 01 - REDUCTION OF SEISMIC RISK (ROSE)

1° Year - academic year 2026/2027 - 60 CFU

ATTIVITÀ FORMATIVA Courses	CFU cfu	Vecchio Settore Scientifico Old Disciplinary Sector	Nuovo Settore Scientifico New Disciplinary Sector	TAF/Ambito TAF/Teaching Field	Tipo Insegnamento Course Type	Periodo Period
508173 - DYNAMICS OF STRUCTURES	6	ICAR/08	CEAR-06/A	Distinctive/Ingegneria civile	Compulsory	First Semester
508174 - REINFORCED CONCRETE STRUCTURES	6	ICAR/09	CEAR-07/A	Distinctive/Ingegneria civile	Compulsory	First Semester
508171 - APPLIED MATHEMATICS	6	MAT/08	MATH-05/A	Related/Supplementary/Affine/Integrativa	Compulsory	First Semester
508175 - COMPUTATIONAL MECHANICS	6	ICAR/08	CEAR-06/A	Distinctive/Ingegneria civile	Compulsory	First Semester
508176 - FOUNDATION ENGINEERING AND EARTH RETAINING STRUCTURES	6	ICAR/07	CEAR-05/A	Distinctive/Ingegneria civile	Compulsory	Second Semester
508172 - PROBABILITY AND STATISTICS FOR ENGINEERING APPLICATIONS	6	ICAR/09 ICAR/02	CEAR-07/A CEAR-01/B	Distinctive/Ingegneria civile	Compulsory	First Semester
508177 - SEISMIC HAZARD AND GEOTECHNICAL EARTHQUAKE ENGINEERING	12				Compulsory	Second Semester
<i>Unità Didattiche di SEISMIC HAZARD AND GEOTECHNICAL EARTHQUAKE ENGINEERING</i>						
511392 - SEISMIC HAZARD AND ENGINEERING SEISMOLOGY	6	GEO/10	GEOS-04/A	Related/Supplementary/Affine/Integrativa	Compulsory	Second Semester
508179 - GEOTECHNICAL EARTHQUAKE ENGINEERING	6	ICAR/07	CEAR-05/A	Distinctive/Ingegneria civile	Compulsory	Second Semester
508180 - ADVANCED STRUCTURAL ANALYSIS AND FUNDAMENTALS OF SEISMIC DESIGN	12				Compulsory	Second Semester
<i>Unità Didattiche di ADVANCED STRUCTURAL ANALYSIS AND FUNDAMENTALS OF SEISMIC DESIGN</i>						
508181 - NONLINEAR RESPONSE ANALYSIS	6	ICAR/09	CEAR-07/A	Distinctive/Ingegneria civile	Compulsory	Second Semester
508182 - FUNDAMENTALS OF SEISMIC DESIGN	6	ICAR/09	CEAR-07/A	Distinctive/Ingegneria civile	Compulsory	Second Semester

TRACK 02 - HYDROGEOLOGICAL RISK ASSESSMENT AND MITIGATION (HYRIS)

1° Year - academic year 2026/2027 - 60 CFU

ATTIVITÀ FORMATIVA Courses	CFU cfu	Vecchio Settore Scientifico Old Disciplinary Sector	Nuovo Settore Scientifico New Disciplinary Sector	TAF/Ambito TAF/Teaching Field	Tipo Insegnamento Course Type	Periodo Period
508196 - CONTINUUM MECHANICS	6	ICAR/01	CEAR-01/A	Distinctive/Ingegneria civile	Compulsory	First Semester
508069 - FLUVIAL HYDRAULICS	6	ICAR/01	CEAR-01/A	Distinctive/Ingegneria civile	Compulsory	First Semester
508171 - APPLIED MATHEMATICS	6	MAT/08	MATH-05/A	Related/Supplementary/Affine/Integrativa	Compulsory	First Semester
508197 - ENGINEERING GEOLOGY AND HYDROMORPHOLOGY	12				Compulsory	First Semester
<i>Unità Didattiche di ENGINEERING GEOLOGY AND HYDROMORPHOLOGY</i>						
508194 - ENGINEERING GEOLOGY	6	GEO/05	GEOS-03/B	Related/Supplementary/Affine/Integrativa	Compulsory	First Semester

508198 - HYDROMORPHOLOGY	6	GEO/04	GEOS-03/A	Related/Supplementary/Affine/Integrativa	Compulsory	First Semester
508172 - PROBABILITY AND STATISTICS FOR ENGINEERING APPLICATIONS	6	ICAR/09 ICAR/02	CEAR-07/A CEAR-01/B	Distinctive/Ingegneria civile	Compulsory	Second Semester
508199 - LANDSLIDES HAZARD AND RISK	6	GEO/05	GEOS-03/B	Related/Supplementary/Affine/Integrativa	Compulsory	Second Semester
508200 - GEOMATICS AND GIS	6	GEO/04	GEOS-03/A	Related/Supplementary/Affine/Integrativa	Compulsory	Second Semester
508201 - COMPUTATIONAL FLUID DYNAMICS	6	ICAR/01	CEAR-01/A	Distinctive/Ingegneria civile	Compulsory	Second Semester
FREE CHOICE FROM THE UNIVERSITY COURSE OFFER	6					
510801 – HYDROLOGICAL MODELING AND CLIMATE CHANGE	6	ICAR/02	CEAR-01/B	Optional/A scelta dello studente	Elective	Second Semester
512126 – BASIC PRINCIPLES OF HYDRAULICS	6	ICAR/02	CEAR-01/B	Optional/A scelta dello studente	Elective	First Semester

Elenco degli insegnamenti anticipabili

Anno di corso	Codice insegnamento	Denominazione insegnamento	CFU	Vecchio Settore	Nuovo Settore
2	508185	MASONRY STRUCTURES	6	ICAR/09	CEAR-07/A
2	508186	BRIDGE STRUCTURES	6	ICAR/09	CEAR-07/A
2	509688	RISK ASSESSMENT AND LOSS ESTIMATION	6	ICAR/09	CEAR-07/A
2	508202	HYDROLOGICAL RISKS	6	ICAR/02	CEAR-01/B
2	510798	FLOOD PROPAGATION AND FLUVIAL PROTECTION WORKS	12	ICAR/02 ICAR/01	CEAR-01/B CEAR-01/A
2	509634	RELIABLE DESIGN AND MANAGEMENT OF URBAN HYDRAULIC INFRASTRUCTURES	6	ICAR/02	CEAR-01/B

EVENTUALI ESAMI IN SOVRANNUMERO (MAX 24 CFU)

POSSIBLE EXTRA EXAMS (MAX 24 CFU)

ATTIVITÀ FORMATIVA <i>Courses</i>	CFU <i>Cfu</i>	SETTORE <i>Sector</i>	YEAR <i>Year</i>

[Catalogo degli insegnamenti](#)

[Courses Catalogue](#)

Data / *Date*.....

Firma dello studente / *Student's signature*