

# 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. 2022/2023

Study Plan academic year 2022/2023

To be submitted online from October 3rd to October 17th 2022 (enrolled student only)

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

#### 1° Year - academic year 2022/2023

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
<b>TOT. 60 CFU</b>							

#### 2° Year - academic year 2023/2024

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	
508189 - STEEL STRUCTURES	6	12			ICAR/09	Optional	First Semester
509587 SEISMIC DESIGN OF NON-STRUCTURAL BUILDING ELEMENTS	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
508207 - PROJECT WORK	3			X	NN	Other	Second Semester
503327 - MASTER THESIS	27			X	PROFIN_S	Final Exam	
<b>TOT. 60 CFU</b>							

## TRACK 02 - HYDROGEOLOGICAL RISK ASSESSMENT AND MITIGATION (HYRIS)

### 1° Year - academic year 2022/2023

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
<b>TOT. 60 CFU</b>							

### 2° Year - academic year 2023/2024

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

508203 - FLOOD PROPAGATION AND STRUCTURAL MEASURES FOR FLOOD RISK MITIGATION	12	11		X			All Year
Unità Didattiche di FLOOD PROPAGATION AND STRUCTURAL MEASURES FOR FLOOD RISK MITIGATION							
507329 - FLOOD PROPAGATION	6				ICAR/02	Distinctive	First Semester
508204 - STRUCTURAL MEASURES FOR FLOOD RISK MITIGATION	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	
508206 - EARTH SURFACE AND PROCESSES	6	13			GEO/04	Optional	Second Semester
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
508207 - PROJECT WORK	3			X	NN	Other	Second Semester
503327 - MASTER THESIS	27			X	PROFIN_S	Final Exam	
<b>TOT. 60 CFU</b>							

- [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.**