

Geophysics for natural risks and resources

Year 1- Semester 1

N. Exams	Course	Semester	CFU	Teacher
1	Solid Earth Geophysics	1	9	BOSCHI
2	Applied Geophysics	1	9	CASSIANI
3	Mathematical physics for the Earth System	1	6	BOSCHI
	<i>One course among:</i>			
4	Geology for Geophysics	1	6	OLIVETTI
	Earthquake Geology and Fault Mechanics	1	6	DI TORO

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Year 1 - Semester 2

N. Exams	Course	Semester	CFU	TEACHER
5	Electromagnetism	2	6	RACCANELLI
6	Georesources	2	6	ZATTIN/NIMIS
—	Digital data processing	2	6	BARONE
	<i>One course among:</i>			
7	Geophysics for Cultural Heritage and Civil Engineering	2	6	DEIANA
	Numerical Methods for Geosciences	2	6	FACCENDA
	Petrophysics	2	6	DI SIPIO (?)
	<i>One course among:</i>			
8	Geotechnics	2	6	DALLA SANTA (?)
	Applied Hydrology	2	6	D'ALPAOS

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Year 1 - Semester 2

N. Exams	Course	Semester	CFU	TEACHER
	<i>One course among:</i>			
8	Physics Data Analysis	2	6	LM PHYSICS OF DATA
	Management and analysis of physics datasets	2	6	LM PHYSICS OF DATA
	Statistical Mechanics of Complex Systems	2	6	LM Mathematical engineering
	Advanced statistics for physics analysis	2	6	LM PHYSICS OF DATA
	Numerical methods for continuous systems	2	6	LM Mathematical engineering
	Numerical methods for high performance computing	2	6	LM Mathematical engineering

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Year 2 - Semester 1

N. Exams	Course	Semester	CFU	TEACHER
9	Environmental and Engineering Geophysics	1	9	BOAGA
	<i>One course among:</i>			
10	Geothermics	1	6	GALGARO
	Exploration Seismology	1	6	LORENZO PETRONIO
	(Physics of the Atmosphere)	1	6	BIONDI
	Free course	1	6	

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	<i>One course among:</i>			
	<i>Numerical methods for the continuous system (hydrological process)</i>	2	6	LARESE
11	Seismic response of built structures	1	6	DA PORTO
	Coastal Environment under Climate Change	1	6	ANDREA D'ALPAOS
	Groundwater Hydrology	1	6	MATTEO CAMPORESE
	High level programming	1	6	LM PHYSICS OF DATA
	Programmable hardware devices	1	6	LM Mathematical engineering
	Machine Learning	1	6	LM PHYSICS OF DATA
	Numerical methods for differential equations	1	6	LM Mathematical engineering

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Year 2 - Semester 2

N. Exams	Course	Semester	CFU	TEACHER
12	<i>FREE COURSE TO CHOICE</i>	2	6	
	<i>INTERNSHIP</i>	1-2	3	
	<i>FINAL EXAM (Thesis)</i>		24	