

**Curricula and study plan (general structure) 2019-2020**

<b>Reduction Of Seismic Risk</b>		First semester					Second semester				
		Month 1	Month 2	Month 3	Month 4	Month 5	Month 1	Month 2	Month 3	Month 4	Month 5
<b>1<sup>st</sup> year</b>	<i>Series</i>	Dynamics of Structures (P.Gulkan)	Design of RC Structures (G.Ozcebe)	Applied Mathematics (L.Tamellini IMATI-CNR)	Computational Mechanics (A.Reali)	Probability and Statistics (Bazzurro + Venini)	Foundation engineering and Earth Retaining Structures (V.Sheshov)	Seismic Hazard and Engineering Seismology (V.Poggi – OGS)	Nonlinear Response Analysis (A.Correia-J.Almeida)	Fundamentals of Seismic Design (R.Monteiro)	-
	<i>Parallel</i>	-					Geotechnical Earthquake Engineering (C.G..Lai)				
<b>2<sup>nd</sup> year</b>	<i>Series</i>	Seismic Risk (Bazzurro +Vamvatsikos +Silva)	1 choice	Bridge structures (G.M. Calvi)	Masonry structures (G.Magenes + M.Griffith)	1 choice	Thesis				
	<i>Parallel</i>	-									

<i>Choices</i>	Steel Structures (G.Della Corte)	- Non-structural Elements or Seismic Isolation (A.Filiatrault)	- Risk Emergency Management and Legislation (Monti + Moratti + Velliscig)					Geomatics and GIS –b (Taramelli)	
	Geomatics and GIS a – (Taramelli)								

<b>Hydrological Risk Assessment &amp; Mitigation</b>		First semester					Second semester				
		Month 1	Month 2	Month 3	Month 4	Month 5	Month 1	Month 2	Month 3	Month 4	Month 5
<b>1<sup>st</sup> year</b>	<i>Series</i>	Continuum Mechanics (S.Manenti)	Continuum Mechanics	Applied Mathematics (Tamellini)	Engineering Geology (C.Meisina)	Probability and Statistics (Bazzurro + Venini)	Hydro morphology (Scorpio)	Computational Fluid Dynamics (Sibilla + Fenocchi)	Snow Avalanches and Related Mountain Natural Hazards (visiting)	Geomatics and GIS –b (Taramelli)	
	Geomatics and GIS –a (Taramelli)										
<i>Parallel</i>	Fluvial Hydraulics					Landslides Hazard and Risk (Meisina + Bordoni)					
<b>2<sup>nd</sup> year</b>	<i>Series</i>	Hydrological Risk (M.Martina)	Structural measures for flood risk mitigation (Ghilardi)	2 choices		Thesis					
	<i>Parallel</i>	Flood Propagation									

<i>Choices</i>		Design of RC Structures		- Hydraulic Infrastructures - Risk Emergency Management and Legislation (Monti + Moratti + Velliscig) - Earth Surface and Processes - Foundation Engineering						
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