

Curricula and study plan (general structure) 2020-2021

Hydrological Risk Assessment & Mitigation		First semester					Second semester				
		Month 1	Month 2	Month 3	Month 4	Month 5	Month 1	Month 2	Month 3	Month 4	Month 5
1st year	<i>Series</i>	Continuum Mechanics (S.Manenti)	Continuum Mechanics Geomatics and GIS –a (A.Taramelli)	Applied Mathematics (L.Tamellini)**	Engineering Geology (C.Meisina)	Probability and Statistics (Bazzurro + Venini)	Hydro morphology (**)	Computational Fluid Dynamics (Sibilla + Fenocchi)	Snow Avalanches and Related Mountain Natural Hazards (Barbolini ** - Pasian)	Geomatics and GIS –b (A.Taramelli)	
	<i>Parallel</i>	Fluvial Hydraulics (P.Ghilardi + A.Fenocchi)					Landslides Hazard and Risk (Meisina + Bordoni)				
2nd year	<i>Series</i>	Hydrological Risk (M.Martina)	Structural measures for flood risk mitigation (P.Ghilardi)		2 choices		Thesis				
	<i>Parallel</i>	Flood Propagation (G.Petaccia)									
<i>Choices</i>			Design of RC Structures		Hydraulic Infrastructures (Creaco)	Foundation Engineering and Earth Retaining Structures					
					Landslide modeling and mitigation strategies (D.Gioffré)						
					Earth Surface and Processes (Maerker)						

Mathematics and statistics	
Fluid and continuum mechanics	
Hazard and exposure; definition and modeling	
Risk analysis	
Measures for risk mitigation (including design of engineering works)	