

MSc in “Civil Engineering for Mitigation of Risk from Natural Hazards”

Courses offered (general structure) 2021-2022

Reduction Of Seismic Risk		First semester					Second semester				
		Month 1	Month 2	Month 3	Month 4	Month 5	Month 1	Month 2	Month 3	Month 4	Month 5
1 st year	<i>Series</i>	Dynamics of Structures (H.Sucuoglu-METU Ankara **)	Reinforced Concrete Structures (B.Mihaylov - U.de Lièges - G.Guerrini **)	Applied Mathematics (L.Tamellini IMATI-CNR**)	Computational Mechanics (A.Reali + G.Scalet)	Probability and Statistics for Eng Appl (P.Bazzurro + P.Venini)	Foundation engineering and Earth Retaining Structures (t.b.a.)**	Seismic Hazard and Applied Seismology (V.Poggi - OGS **)	Nonlinear Response Analysis (E.Spacone, Univ. di Chieti**)	Fundamentals of Seismic Design (R.Monteiro+ O'Reilly)	-
	<i>Parallel</i>	-					Geotechnical Earthquake Engineering (C.G..Lai)				
2 nd year	<i>Series</i>	Seismic Risk (Bazzurro + Vamvatsikos **)	1 choice ■	Bridge structures (G.M. Calvi)	Masonry structures (G.Magenes)	1 choice ■■	Thesis				
	<i>Parallel</i>	-									

<i>Choices</i>		Steel Structures (R.Nascimben e) ■			Seis.Des. of Non-structural Build. Elem. (A.Filiatrault) ■■					Geomatics and GIS -b (A.Taramelli) ■	
		Geomatics and GIS a - (A.Taramelli) ■			Risk Emergency Management and Legislation (Monti at al.) ■■						

Mathematics and statistics	
Solid and structural mechanics	
Structural/geotechnical design, assessment and retrofit	
Hazard and risk analysis	
Complementary	