

THEMATIC AREAS – TEACHING MODULES		HOURS	ECTS
Seismic Hazard			
1	Elements of Seismology and Geophysics	32	2
2	Seismic Hazard maps	17	1
Territorial and structural diagnostics			
3	Elements of Geology and Technical Geology	34	2
4	Construction techniques and pathologies of reinforced concrete buildings.	17	1
5	Measuring tools	17	1
6	Diagnostic surveys on territory elements.	60	4
7	<i>Non-destructive testing</i> on reinforced concrete constructions	34	2
Seismic Vulnerability			
8	<i>Elements</i> of structural dynamics and seismic engineering	30	2
9	Seismic vulnerability of reinforced concrete buildings, infrastructures and urban systems	79	5
10	Seismic Geotechnics. Seismic microzonation	34	2
11	Seismic damage scenarios	32	2
Seismic monitoring of buildings and urban systems			
12	Sensors and sensor networks	32	2
13	Post-earthquake quick usability checks of reinforced buildings	34	2
14	Systemic vulnerability of roads	32	2
Resilience of urban systems with high seismic risk			
15	Urban planning and seismic safety	34	2
16	Territory relationship systems, BIG DATA and seismic vulnerability	34	2
17	GIS technologies for the analysis of territorial data	32	2
18	Elements of sustainable economy, territorial marketing and safety policies	32	2
Motivational approaches and communication techniques			
19	<i>Motivational Counseling</i>	17	1
20	Communication techniques: from prevention to seismic emergency.	17	1
INTERNISHIP		150	6
INDIVIDUAL STUDY – OTHER ACTIVITIES		450	2
FINAL TEST		250	12
TOTAL HOURS / ECTS		1500	60