

	Modulo	Data	Ore	Docente	Advanced dynamic simulation for risk assessment 15 ore (3 ECTS; ING-IND/26)
AREA ING-IND/26	1	07-feb	3	Antonioni	Dynamic risk assessment for process industry
	2	08-feb	3	Scarponi	Modeling of industrial equipment exposed to hydrocarbon fire
	3	09-feb	3	Scarponi	Modeling of fires in buildings
	4	10-feb	3	Scarponi	Modeling of the impact of wildfires on urban and industrial areas
	5	11-feb	3	Antonioni	Dynamic simulation and risk assessment: case studies
	Modulo	Data	Ore	Docente	Engineering for green transition: methods and tools 15 ore (3 ECTS; ING-IND/25)
AREA ING-IND/25	1	27-giu	3	Dal Pozzo	Life cycle thinking in system analysis
	2	28-giu	3	Dal Pozzo	Indicators for environmental sustainability
	3	29-giu	3	Dal Pozzo	Decarbonization of the energy and industrial systems
	4	30-giu	3	Tugnoli	Implementing sustainability in the design of new processes
	5	01-lug	3	Salzano	Innovative fuels for the sustainable energy production
	Modulo	Data	Ore	Docente	Advanced non-linear modelling of reinforced concrete and masonry structures (prof Luca Pozza, M1 Diego Talledo, M2 Francesca Ferretti), 30 ore, 5 CFU
AREA ICAR09	1	Luglio	5	Talledo	Focus on modelling of Reinforced Concrete Structures with OpenSees: Theory: Advanced numerical models for RC structures. Introduction to OpenSees
	2	Luglio	5	Talledo	Focus on modelling of Reinforced Concrete Structures with OpenSees: Practice: First use of OpenSees to model a RC building
	3	Luglio	5	Talledo	Focus on modelling of Reinforced Concrete Structures with OpenSees: Practice: model RC buildings with different approaches
	4	Luglio	5	Ferretti	Focus on modelling of Masonry Structures with Diana. Theory: Numerical modelling of masonry structures: mechanical behavior and modeling approaches
	5	Luglio	5	Ferretti	Focus on modelling of Masonry Structures with Diana. Practice: Introduction to the use of Diana. Modeling of a simple masonry structure according to the macro-modelling approach
	6	Luglio	5	Ferretti	Focus on modelling of Masonry Structures with Diana. Practice: Modeling masonry according to the micro-modelling approach, examples
	Modulo	Data	Ore	Docente	GNSS for displacement monitoring of structures and territory (Luca Tavasci), 15 ore, 3 CFU
AREA ICAR06	1	Aprile	2,5	Tavasci	Global and Local dinamic reference systems
	2	Aprile	2,5	Tavasci	GNSS positioning techniques
	3	Aprile	2,5	Tavasci	GNSS for real time applications
	4	Aprile	2,5	Tavasci	GNSS for long terms monitoring
	5	Aprile	2,5	Tavasci	GNSS applications
	6	Aprile	2,5	Tavasci	Time series analysis
	Modulo	Data	Ore	Docente	Advance in spatial data handling and GIS (Ing. Alessandro Lambertini), 15 ore, 3 CFU
AREA ICAR06	1	Marzo	2,5	Lambertini	Geographic Information System
	2	Marzo	2,5	Lambertini	Metadata and Open Data
	3	Marzo	2,5	Lambertini	Vector data processing and integration
	4	Marzo	2,5	Lambertini	Database and data formats
	5	Marzo	2,5	Lambertini	Raster data and imagery
	6	Marzo	2,5	Lambertini	Exercises and case study
	Modulo	Data	Ore	Docente	Transport systems for urban sustainable mobility (prof. MN Postorino, C. Lantieri, F. Paganelli, P. Tataranni), 15 ore, 3 CFU
AREA ICAR 04-05	1	Giugno	2,5	Postorino	Sustainable mobility: approaches and modelling
	2	Giugno	2,5	Paganelli	Shared mobility systems: fleet estimation and positioning
	3	Giugno	2,5	Paganelli	New trends and future perspectives in transport systems
	4	Giugno	2,5	Lantieri	Traffic calming techniques
	5	Giugno	2,5	Tataranni	Cycling paths: materials and design
	6	Giugno	2,5	Tataranni	Environmental sustainability in urban area
	Modulo	Data	Ore	Docente	Application of remote sensing and numerical modelling methods for rock mass characterization and slope stability analysis (Davide Donati), 15 ore, 3 CFU
AREA GEO	1	Maggio	2,5		
	2	Maggio	2,5		
	3	Maggio	2,5		
	4	Maggio	2,5		
	5	Maggio	2,5		
	6	Maggio	2,5		