

Allegato 3 Piano ad approvazione automatica
LAUREA MAGISTRALE IN MATHEMATICAL ENGINEERING - INGEGNERIA MATEMATICA
 (IN2191 ordinamento 2015) DM270 Classe LM-44
 coorte 2016

Attività formative		SEMESTRE	CFU	Curriculum Mathematical Modelling for Engineering and Science	Curriculum Financial Engineering	
1° anno	Analytical and Stochastic Mathematical Methods for Engineering	1	12	x	x	
	Introduction to Partial Differential Equations	1	9	x	x	
	Numerical Methods for Differential Equations	1	6	x	x	
	Model identification, calibration and data analysis	1, 2	9	x	x	
	Mathematical Physics (C.I.)	1, 2	12	x		
	Continuum mechanics (MOD. A)	1, 2	6	x		
	Dynamical systems (MOD. B)	1, 2	6	x		
	Numerical Methods for Continuous Systems	2	6	x		
	Statistical mechanics of complex systems	2	9	x		
	Scientific Computing and Object Oriented Programming	2	6		x	
	Stochastic differential equations, with numerics	2	9		x	
	Stochastic methods for finance	2	9		x	
	Lingua inglese B2 (abilità produttive)	1, 2	3	x		
2° anno	Advanced Fluid Mechanics (1)	1	9	18 cfu		
	Advanced Solid Mechanics (1)	1	9			
	Electromagnetism (1)	1	9			
	2 insegnamenti a scelta vincolata		12	x		
	Groundwater hydrology	1	6	12 cfu		
	Laboratory of Astrophysics 1	1	6			
	Water resources management	1	6			
	Seismic Risk Assessment	1, 2	6			
	Coastal flooding hazard	2	6			
	Computational Astrodynamics	2	6			
	Landslide Risk Assessment	2	6			
	Crediti a scelta libera		9	x		
	Computational Electrical Engineering	1	9	9 cfu		
	Environmental fluid mechanics	1	6			
	Mesh free approximations of Partial Differential Equations	1	6			
	Methods and models for combinatorial optimization	1	6			
	Advanced Quantum Physics	2	6			
	Computational Methods for Materials Science	2	6			
	Fire risk in structures	2	9			
	Fluvial morphodynamics	2	9			
	Geomatics	2	9			
	Numerical methods for high performance computing	2	6			
	Stochastic Optimization	2	9			
	Tutti gli insegnamenti del corso di studio non precedentemente opzionati tranne quelli segnalati con NO		9			
	Mathematical Tools for Economics and Finance 2	2	9		NO	x
	Portfolio Optimization	2	9		NO	x
	Risk Management	2	9		NO	x
	Crediti a scelta libera		9		x	
	Tutti gli insegnamenti proposti nel secondo anno dall'ESILV					
	Lingua inglese B2 (abilità produttive)		3		x	
	Tirocinio		6		x	
	Prova Finale		15	x	x	

(1) 2 esami a scelta fra i 3