

PAA 10
MoDA

Modeling and Data Analysis

	n.	CAT	SEM	SSD	COD	INSEGNAMENTO / COURSE	CFU
ANNO YEAR 1	1	OB	1	MAT/05	095958	Real and functional analysis	8
	2	OB	1	ING-INF/05	052496	Algorithms and parallel computing	10
	3	MA	2	SECS-S/01	052498	Applied statistics	10
	4	MTM	2	MAT/05	095963	Advanced partial differential equations	8
	5	MA	2	MAT/08	052497	Numerical analysis for partial differential equations	10
	6	ING	1			<i>a scelta dalla Tabella / to be chosen from Group ING</i>	10
	7	MTM	1 o 2			<i>a scelta dalla Tabella / to be chosen from Group MTM</i>	8
						Tot	64

	n.	CAT	SEM	SSD	COD	INSEGNAMENTO / COURSE	CFU
ANNO YEAR 2	8	MA	1	MAT/06+SECS-S/01	052499	Bayesian statistics	10
	9	MTM	1	MAT/06	095966	Stochastic dynamical models (8 CFU)	8
			1	MAT/06	095975	Stochastic differential equations (8 CFU)	
			1	MAT/07 + MAT/08	052030	Computational fluid dynamics [C.I.] (8 CFU)	
	10	SC	2	MAT/08	095976	Advanced programming for scientific computing	8
	11	ING	2	ING-INF/04	096297	Model identification and data analysis	10
	12	SC	1 o 2			<i>a scelta dalla Tabella / to be chosen from Group FREE</i>	8
				097690	Prova finale / Final work	12	
						Tot	56

TABELLE / GROUPS						
	SEM	SSD	COD	INSEGNAMENTO / COURSE	CFU	Note / Notes
ING	1	ING-INF/04	089195	Dinamica dei sistemi complessi	10	
	1	ING-INF/01	085930	Elettronica	10	
	1	ICAR/01	095962	Fluids Labs	10	
	1	ING-IND/10	097575	Termodinamica e processi energetici	10	
	2	ING-INF/04	096297	Model identification and data analysis	10	
MTM	1	MAT/05	095973	Discrete dynamical models	8	Activation in the a.y. 2018/19 and alternate years after
	1	MAT/05	052503	Game theory	8	
	1	MAT/07	097660	Methods and models for statistical mechanics	8	Activation in the a.y. 2017/18 and alternate years after
	1	MAT/06	095975	Stochastic differential equations	8	
	1	MAT/06	095966	Stochastic dynamical models	8	
	2	MAT/05	095963	Advanced partial differential equations	8	
	2	MAT/07	097661	Biomathematical modeling	8	
	2	MAT/05	097673	Calculus of variations	8	Activation in the a.y. 2017/18 and alternate years after
	2	MAT/08	096659	Computational modeling in electronics and biomathematics	8	
	2	MAT/03	093153	Geometria differenziale	8	Activation in the a.y. 2018/19 and alternate years after
	2	MAT/09	095972	Optimization	8	
	1	ING-INF/03	095978	Audio and video signals	8	
	1	MAT/06+SECS-S/01	052502	Bayesian statistics	8	
	1	MAT/08+SECS-S/06	097667	Computational finance	8	
	1	MAT/07+MAT/08	052030	Computational fluid dynamics	8	
	1	ING.IND/16	097482	Design and analysis of experiments A	8	
	1	MAT/05	095973	Discrete dynamical models	8	Activation in the a.y. 2018/19 and alternate years after
	1	ICAR/09	098512	Engineering seismology	8	
	1	MAT/05	052503	Game theory	8	
	1	GEO/11	098637	Geophysical data processing	8	
	1	ICAR/07+ICAR/08	051676	Meccanica computazionale per i geomateriali	8	
	1	MAT/07	097660	Methods and models for statistical mechanics	8	Activation in the a.y. 2017/18 and alternate years after

FREE	1	MAT/08+SECS-S/01	098516	Numerical and statistical methods in geosciences	10	
	1	FIS/03	097670	Plasma physics	8	
	2	MAT/08	052504	Advanced numerical methods for coupled problems with application to living systems	8	
	2	MAT/08	095976	Advanced programming for scientific computing	8	
	2	SECS-S/01	095977	Applied statistics	8	
	2	MAT/07	097661	Biomathematical modeling	8	
	2	MAT/05	097673	Calculus of variations	8	Activation in the a.y. 2017/18 and alternate years after
	2	MAT/08	096659	Computational modeling in electronics and biomathematics	8	
	2	ING-INF/05	097676	Economics and computation	6	
	2	ING-IND/35	052397	Energy and climate change modeling and scenarios	8	
	2	SECS-S/06	052505	Financial engineering	8	
	2	FIS/01	088933	Fisica quantistica	8	
	2	MAT/03	093153	Geometria differenziale	8	Activation in the a.y. 2018/19 and alternate years after
	2	ICAR/01	098513	Groundwater hydraulics	8	
	2	SECS-S/06	052506	Insurance & econometrics	10	
	2	SECS-S/06	095980	Mathematical finance II	8	
2	MAT/09	095972	Optimization	8		