

**MSc (487)**  
**PSPA 2 (MST)**    **MATHEMATICAL ENGINEERING**  
**APPLIED STATISTICS**

	n.	CAT	SEM	SSD	COD	COURSE	CFU
<b>1st YEAR</b>	1	OB	1	MAT/05	95958	Real and functional analysis	8
	2	OB	1	ING-INF/05	95959	Algorithms and parallel computing	10
	3	MA	1	MAT/06	95966	Stochastic dynamical models	8
	4	MA	2	SECS-S/01	95967	Applied statistics	10
	5	ING	2	ING-INF/04	96297	Model identification and data analysis	10
	6	MTM	1 o 2			<i>to be chosen from Group MTM</i>	8
	7	SC	1 o 2			<i>to be chosen from Group FREE</i>	8
						<b>total</b>	<b>62</b>

	n.	CAT	SEM	SSD	COD	COURSE	CFU
<b>2nd YEAR</b>	8	MA	1	MAT/06+SECS-S/01	97659	Bayesian statistics	10
	9	MA	1 o 2			<i>to be chosen from Group STAT</i>	10
	10	ING	1 o 2			<i>to be chosen from Group ING</i>	10
	11	MTM	1 o 2			<i>to be chosen from Group MTM</i>	8
	12	SC	1 o 2			<i>to be chosen from Group FREE</i>	8
				1 o 2		97690	Final work
						<b>total</b>	<b>58</b>

GROUPS						
	SEM	SSD	COD	COURSE	CFU	Notes
ING	1	ING-INF/04	89195	Dinamica dei sistemi complessi	10	
	1	ING-INF/01	85930	Elettronica	10	
	1	ICAR/01	95962	Fluids Labs	10	
	1	ING-IND/10	97575	Termodinamica e processi energetici	10	
	2	ING-INF/04	96297	Model identification and data analysis	10	
MTM	1	MAT/05	95973	Discrete dynamical models	8	Activation in the a.y. 2018/19 and alternate years after
	1	MAT/05	95974	Game theory	8	
	1	MAT/07	97660	Methods and models for statistical mechanics	8	Activation in the a.y. 2017/18 and alternate years after
	1	MAT/06	95975	Stochastic differential equations	8	
	1	MAT/06	95966	Stochastic dynamical models	8	
	2	MAT/05	95963	Advanced partial differential equations	8	
	2	MAT/07	97661	Biomathematical modeling	8	
	2	MAT/05	97673	Calculus of variations	8	Activation in the a.y. 2017/18 and alternate years after
	2	MAT/08	96659	Computational modeling in electronics and biomathematics	8	
	2	MAT/03	93153	Geometria differenziale	8	Activation in the a.y. 2018/19 and alternate years after
2	MAT/09	95972	Optimization	8		
	1	ING-INF/03	95978	Audio and video signals	8	
	1	MAT/08+SECS-S/06	97667	Computational finance	8	
	1	ING.IND/16	97482	Design and analysis of experiments A	8	
	1	MAT/05	95973	Discrete dynamical models	8	Activation in the a.y. 2018/19 and alternate years after
	1	MAT/05	95974	Game theory	8	
	1	GEO/11	98637	Geophysical data processing	8	
	1	MAT/07	97660	Methods and models for statistical mechanics	8	Activation in the a.y. 2017/18 and alternate years after
	1	MAT/08+SECS-S/01	98516	Numerical and statistical methods in geosciences	10	Mutually incompatible with 95967-Applied statistics (10 cfu) and 95977-Applied statistics (8 cfu)
	1	FIS/03	97670	Plasma physics	8	
	2	MAT/08	95976	Advanced programming for scientific computing	8	
	2	SECS-S/01	95977	Applied statistics	8	

FREE	2	MAT/07	97661	Biomathematical modeling	8	
	2	MAT/05	97673	Calculus of variations	8	Activation in the a.y. 2017/18 and alternate years after
	2	MAT/08	96659	Computational modeling in electronics and biomathematics	8	
	2	ING-INF/05	97676	Economics and computation	6	
	2	ICAR/09	98512	Engineering seismology	8	
	2	FIS/01	88933	Fisica quantistica	8	
	2	MAT/03	93153	Geometria differenziale	8	Activation in the a.y. 2018/19 and alternate years after
	2	ICAR/01	98513	Groundwater hydraulics	8	
	2	SECS-S/06	95980	Mathematical finance II	8	
	2	SECS-S/06	98388	Mathematical models and methods for financial and insurance markets	8	
	2	ICAR/07+ICAR/08	51676	Meccanica computazionale per i geomateriali	8	
	2	MAT/09	95972	Optimization	8	
STAT	1	ING-INF/03	93267	Digital signal processing	10	
	2	ING-INF/05	89167	Data mining and text mining (UIC 583)	5	
	2	ING-INF/05	97683	Machine learning	5	
	2	ING-IND/19	91754	Metodi computazionali per la sicurezza e l'analisi di rischio A+B	10	