

2TIMETABLE: FIRST SEMESTER, A.Y. 2023/2024	MSC IN MATHEMATICAL MODELLING – FIRST YEAR
25 SEPTEMBER 2023 / 14 JANUARY 2024	SUBJECTS IN COMMON TO ALL STUDY TRACKS (ERASMUS MUNDUS INTERMATHS, MATHMODS)
SUBJECTS	
Applied Partial Differential Equations (C. Lattanzio - MS Teams code:)	Real and Functional Analysis , (M. Palladino - MS Teams code:)
Control Systems (E. De Santis, G. Pola - MS Teams code:)	Mathematical Modelling of Continuum Media (D. Donatelli - MS Teams code:)
Dynamical Systems and Bifurcation Theory (B. Rubino, M. Palladino - MS Teams code:)	Italian Language for Foreigners (level A1) (R. Antonetti - MS Teams code:)

*The course “Real and Functional Analysis” will start on October 24, 2023.

TIME ①	MONDAY	Classroom	TUESDAY	Classroom	WEDNESDAY	Classroom	THURSDAY	Classroom	FRIDAY	Classroom
08:30-09:30	Mathematical Modelling of Continuum Media	Biancofiore	Real and Functional Analysis / Mathematical Modelling of Continuum Media	Biancofiore			Control Systems	Biancofiore	Control Systems	Biancofiore
09:30-10:30	Mathematical Modelling of Continuum Media	Biancofiore	Real and Functional Analysis / Mathematical Modelling of Continuum Media	Biancofiore	Applied PDE	Biancofiore	Control Systems	Biancofiore	Control Systems	Biancofiore
10:30-11:30			Real and Functional Analysis / Mathematical Modelling of Continuum Media	Biancofiore	Applied PDE	Biancofiore	Control Systems	Biancofiore	Control Systems	Biancofiore
11:30-12:30	Applied PDE	Biancofiore	Applied PDE	Biancofiore	Real and Functional Analysis / Mathematical Modelling of Continuum Media	Biancofiore	Real and Functional Analysis	Biancofiore		
12:30-13:30	Applied PDE	Biancofiore	Applied PDE	Biancofiore	Real and Functional Analysis / Mathematical Modelling of Continuum Media	Biancofiore	Real and Functional Analysis	Biancofiore		
14:30-15:30	Dynamical Systems and Bifurcation Theory	Biancofiore	Dynamical Systems and Bifurcation Theory	Biancofiore	Dynamical Systems and Bifurcation Theory	Biancofiore				
15:30-16:30	Dynamical Systems and Bifurcation Theory	Biancofiore	Dynamical Systems and Bifurcation Theory	Biancofiore	Dynamical Systems and Bifurcation Theory	Biancofiore				
16:30-17:30	Real and Functional Analysis*	Biancofiore	Italian Language for Foreigners	Biancofiore	Italian Language for Foreigners	Biancofiore				
17:30-18:30	Real and Functional Analysis	Biancofiore	Italian Language for Foreigners	Biancofiore	Italian Language for Foreigners	Biancofiore				

TIMETABLE: FIRST SEMESTER, A.Y. 2023/2024	MSC IN MATHEMATICAL ENGINEERING – FIRST YEAR
25 SEPTEMBER 2022/14 JANUARY 2023	CURRICULUM: “Scientific computing and Applications”
SUBJECTS	
Advanced Analysis (C. Lattanzio - MS Teams code:)	Introduction to Mathematical Control Theory (C. Pignotti - MS Teams code:)
Control Systems (E. De Santis, G. Pola - MS Teams code:)	Modelling and Analysis of Fluids and Biofluids (D. Donatelli - MS Teams code:)
Dynamical Systems and Bifurcation Theory (B. Rubino, M. Palladino - MS Teams code:)	Advanced English Listening and Speaking (M. Fiorenza - MS Teams code:)
Numerical Methods for Stochastic Modelling (R. D’Ambrosio - MS Teams code:)	

* The course “Mathematical Modelling of Continuum Media” corresponds to the first 3 CFU of the course “Modelling and Analysis of Fluids and Biofluids”.

** The course “Stochastic numerics laboratory” (S. Di Giovacchino) follows the same schedule of the course “Numerical methods for stochastic modelling”; the latter course will start on November 6, 2023.

TIME ☺	MONDAY	Classroom	TUESDAY	Classroom	WEDNESDAY	Classroom	THURSDAY	Classroom	FRIDAY	Classroom
08:30-09:30	Modelling and Analysis of Fluids and Biofluids *	Biancofiore	Modelling and Analysis of Fluids and Biofluids *	Biancofiore	Introduction to Mathematical Control Theory	Lab. Math. Model.	Control Systems	Biancofiore	Control Systems	Biancofiore
09:30-10:30	Modelling and Analysis of Fluids and Biofluids	Biancofiore	Modelling and Analysis of Fluids and Biofluids	Biancofiore	Introduction to Mathematical Control Theory	Lab. Math. Model.	Control Systems	Biancofiore	Control Systems	Biancofiore
10:30-11:30	Numerical Methods for Stochastic Modelling**	HPC	Modelling and Analysis of Fluids and Biofluids	Biancofiore	Introduction to Mathematical Control Theory	Lab. Math. Model.	Control Systems	Biancofiore	Control Systems	Biancofiore
11:30-12:30	Numerical Methods for Stochastic Modelling	HPC			Modelling and Analysis of Fluids and Biofluids	Biancofiore	Advanced Analysis	C1.16	Numerical Methods for Stochastic Modelling**	HPC
12:30-13:30	Numerical Methods for Stochastic Modelling	HPC			Modelling and Analysis of Fluids and Biofluids	Biancofiore	Advanced Analysis	C1.16	Numerical Methods for Stochastic Modelling	HPC
14:30-15:30	Advanced Analysis / Dynamical Systems and Bifurcation Theory	C1.9 / Biancofiore	Advanced Analysis / Dynamical Systems and Bifurcation Theory	C1.9 / Biancofiore	Dynamical Systems and Bifurcation Theory	Biancofiore				
15:30-16:30	Advanced Analysis / Dynamical Systems and Bifurcation Theory	C1.9 / Biancofiore	Advanced Analysis / Dynamical Systems and Bifurcation Theory	C1.9 / Biancofiore	Dynamical Systems and Bifurcation Theory	Biancofiore				
16:30-17:30	Advanced Analysis	C1.9	Advanced English Listening and Speaking	A1.2						
17:30-18:30			Advanced English Listening and Speaking	A1.2						
18:30-19:30			Advanced English Listening and Speaking	A1.2						

TIMETABLE: FIRST SEMESTER, A.Y. 2023/2024	MSC IN MATHEMATICAL ENGINEERING – FIRST YEAR
25 SEPTEMBER 2023 / 14 JANUARY 2024	INTERNATIONAL STUDY TRACKS “RealMaths” (double degree with BUT, GUT, KAU, SUT, UA, US, YU)
SUBJECTS	
Applied Partial Differential Equations (C. Lattanzio - MS Teams code:)	Introductory Real Analysis (R. Sampalmieri, M. Di Francesco, C. Lattanzio - MS Teams code:)
Control Systems (E. De Santis, G. Pola - MS Teams code:)	Italian Language for Foreigners (level A1) (R. Antonetti - MS Teams code:)
Dynamical Systems and Bifurcation Theory (B. Rubino, M. Palladino - MS Teams code:)	

TIME ⌚	MONDAY	Classroom	TUESDAY	Classroom	WEDNESDAY	Classroom	THURSDAY	Classroom	FRIDAY	Classroom
08:30-09:30			Introductory Real Analysis	A1.6			Control Systems	Biancofiore	Control Systems	Biancofiore
09:30-10:30			Introductory Real Analysis	A1.6	Applied PDE	Biancofiore	Control Systems	Biancofiore	Control Systems	Biancofiore
10:30-11:30			Introductory Real Analysis	A1.6	Applied PDE	Biancofiore	Control Systems	Biancofiore	Control Systems	Biancofiore
11:30-12:30	Applied PDE	Biancofiore	Applied PDE	Biancofiore	Introductory Real Analysis	A1.5	Introductory Real Analysis	A0.4		
12:30-13:30	Applied PDE	Biancofiore	Applied PDE	Biancofiore	Introductory Real Analysis	A1.5	Introductory Real Analysis	A0.4		
14:30-15:30	Dynamical Systems and Bifurcation Theory	Biancofiore	Dynamical Systems and Bifurcation Theory	Biancofiore	Dynamical Systems and Bifurcation Theory	Biancofiore				
15:30-16:30	Dynamical Systems and Bifurcation Theory	Biancofiore	Dynamical Systems and Bifurcation Theory	Biancofiore	Dynamical Systems and Bifurcation Theory	Biancofiore				
16:30-17:30	Introductory Real Analysis	A1.7	Italian Language for Foreigners	Biancofiore	Italian Language for Foreigners	Biancofiore				
17:30-18:30	Introductory Real Analysis	A1.7	Italian Language for Foreigners	Biancofiore	Italian Language for Foreigners	Biancofiore				

TIMETABLE: FIRST SEMESTER, A.Y. 2023/2024	MSC IN MATHEMATICAL ENGINEERING – FIRST YEAR
25 SEPTEMBER 2023 / 14 JANUARY 2024	INTERNATIONAL STUDY TRACK “RealMaths” (double degree with KNUST, NIMS)
SUBJECTS	
Introductory Real Analysis (R. Sampalmieri, M. Di Francesco, C. Lattanzio - MS Teams code:)	
Applied Partial Differential Equations (C. Lattanzio - MS Teams code:)	
Dynamical Systems and Bifurcation Theory (B. Rubino, M. Palladino - MS Teams code:)	

TIME 🕒	MONDAY	Classroom	TUSDAY	Classroom	WEDNESDAY	Classroom	THURSDAY	Classroom	FRIDAY	Classroom
08:30-09:30			Introductory Real Analysis	A1.6						
09:30-10:30			Introductory Real Analysis	A1.6	Applied PDE	Biancofiore				
10:30-11:30			Introductory Real Analysis	A1.6	Applied PDE	Biancofiore				
11:30-12:30	Applied PDE	Biancofiore	Applied PDE	Biancofiore	Introductory Real Analysis	A1.5	Introductory Real Analysis	A0.4		
12:30-13:30	Applied PDE	Biancofiore	Applied PDE	Biancofiore	Introductory Real Analysis	A1.5	Introductory Real Analysis	A0.4		
14:30-15:30	Dynamical Systems and Bifurcation Theory	Biancofiore	Dynamical Systems and Bifurcation Theory	Biancofiore	Dynamical Systems and Bifurcation Theory	Biancofiore				
15:30-16:30	Dynamical Systems and Bifurcation Theory	Biancofiore	Dynamical Systems and Bifurcation Theory	Biancofiore	Dynamical Systems and Bifurcation Theory	Biancofiore				
16:30-17:30	Introductory Real Analysis	A1.7								
17:30-18:30	Introductory Real Analysis	A1.7								

TIMETABLE: FIRST SEMESTER, A.Y. 2023/2024	MSC IN MATHEMATICAL ENGINEERING – FIRST YEAR
25 SEPTEMBER 2023 / 14 JANUARY 2024	INTERNATIONAL STUDY TRACK “RealMaths” (double degree with LPNU) – OPTION 2
SUBJECTS	
Real and Functional Analysis , (M. Palladino - MS Teams code:)	Italian Language for Foreigners (level A1) (R. Antonetti - MS Teams code:)
Dynamical Systems and Bifurcation Theory (B. Rubino, M. Palladino - MS Teams code:)	Artificial Intelligence and Machine Learning for Natural Hazards Risk Assessment (F. Di Michele - MS Teams code:)
Machine Learning for Smart Cities Automation (A. D’Innocenzo, F. Smarra - MS Teams code:) (6 CFU)	Mathematical Modelling and HPC Simulation of Natural Disasters (D. Pera - MS Teams code:)

*The course “Real and Functional Analysis” will start on October 24, 2023. **The course “Machine Learning for Smart Cities Automation” on Thursdays will follow the schedule 14:30 – 17.

TIME ①	MONDAY	Classroom	TUESDAY	Classroom	WEDNESDAY	Classroom	THURSDAY	Classroom	FRIDAY	Classroom
08:30-09:30	Artificial Intelligence and Machine Learning for Natural Hazards Risk Assessment	HPC	Real and Functional Analysis	Biancofiore	Mathematical Modelling and HPC Simulation of Natural Disasters	HPC			Artificial Intelligence and Machine Learning for Natural Hazards Risk Assessment	HPC
09:30-10:30	Artificial Intelligence and Machine Learning for Natural Hazards Risk Assessment	HPC	Real and Functional Analysis	Biancofiore	Mathematical Modelling and HPC Simulation of Natural Disasters	HPC			Artificial Intelligence and Machine Learning for Natural Hazards Risk Assessment	HPC
10:30-11:30			Real and Functional Analysis	Biancofiore					Artificial Intelligence and Machine Learning for Natural Hazards Risk Assessment	HPC
11:30-12:30			Machine Learning for Smart Cities Automation	A1.3	Real and Functional Analysis	Biancofiore	Real and Functional Analysis	Biancofiore		
12:30-13:30			Machine Learning for Smart Cities Automation	A1.3	Real and Functional Analysis	Biancofiore	Real and Functional Analysis	Biancofiore		
14:30-15:30	Dynamical Systems and Bifurcation Theory	Biancofiore	Dynamical Systems and Bifurcation Theory	Biancofiore	Dynamical Systems and Bifurcation Theory	Biancofiore	Machine Learning for Smart Cities Automation**	A1.4	Mathematical Modelling and HPC Simulation of Natural Disasters	HPC
15:30-16:30	Dynamical Systems and Bifurcation Theory	Biancofiore	Dynamical Systems and Bifurcation Theory	Biancofiore	Dynamical Systems and Bifurcation Theory	Biancofiore	Machine Learning for Smart Cities Automation	A1.4	Mathematical Modelling and HPC Simulation of Natural Disasters	HPC
16:30-17:30	Real and Functional Analysis*	Biancofiore	Italian Language for Foreigners	Biancofiore	Italian Language for Foreigners	Biancofiore	Machine Learning for Smart Cities Automation	A1.4	Mathematical Modelling and HPC Simulation of Natural Disasters	HPC
17:30-18:30	Real and Functional Analysis	Biancofiore	Italian Language for Foreigners	Biancofiore	Italian Language for Foreigners	Biancofiore				

TIMETABLE: FIRST SEMESTER, A.Y. 2023/2024	MSC IN MATHEMATICAL ENGINEERING – FIRST YEAR
25 SEPTEMBER 2023 / 14 JANUARY 2024	INTERNATIONAL STUDY TRACK “RealMaths” (double degree with ONU) – OPTION 2
SUBJECTS	
Real and Functional Analysis , (M. Palladino - MS Teams code:)	Italian Language for Foreigners (level A1) (R. Antonetti - MS Teams code:)
Dynamical Systems and Bifurcation Theory (B. Rubino, M. Palladino - MS Teams code:)	Control Systems (E. De Santis, G. Pola - MS Teams code:)
Applied Partial Differential Equations (C. Lattanzio - MS Teams code:)	Optional course 6 CFU

*The course “Real and Functional Analysis” will start on October 24, 2023.

TIME ☹	MONDAY	Classroom	TUESDAY	Classroom	WEDNESDAY	Classroom	THURSDAY	Classroom	FRIDAY	Classroom
08:30-09:30			Real and Functional Analysis	Biancofiore			Control Systems	Biancofiore	Control Systems	Biancofiore
09:30-10:30			Real and Functional Analysis	Biancofiore	Applied PDE	Biancofiore	Control Systems	Biancofiore	Control Systems	Biancofiore
10:30-11:30			Real and Functional Analysis	Biancofiore	Applied PDE	Biancofiore	Control Systems	Biancofiore	Control Systems	Biancofiore
11:30-12:30	Applied PDE	Biancofiore	Applied PDE	Biancofiore	Real and Functional Analysis	Biancofiore	Real and Functional Analysis	Biancofiore		
12:30-13:30	Applied PDE	Biancofiore	Applied PDE	Biancofiore	Real and Functional Analysis	Biancofiore	Real and Functional Analysis	Biancofiore		
14:30-15:30	Dynamical Systems and Bifurcation Theory	Biancofiore	Dynamical Systems and Bifurcation Theory	Biancofiore	Dynamical Systems and Bifurcation Theory	Biancofiore				
15:30-16:30	Dynamical Systems and Bifurcation Theory	Biancofiore	Dynamical Systems and Bifurcation Theory	Biancofiore	Dynamical Systems and Bifurcation Theory	Biancofiore				
16:30-17:30	Real and Functional Analysis*	Biancofiore	Italian Language for Foreigners	Biancofiore	Italian Language for Foreigners	Biancofiore				
17:30-18:30	Real and Functional Analysis	Biancofiore	Italian Language for Foreigners	Biancofiore	Italian Language for Foreigners	Biancofiore				

TIMETABLE: FIRST SEMESTER, A.Y. 2023/2024	MSC IN MATHEMATICAL MODELLING – SECOND YEAR
25 SEPTEMBER 2023 / 14 JANUARY 2024	ERASMUS MUNDUS INTERMATHS STUDY TRACK “Cancer Modelling and Simulation”
SUBJECTS	
Advanced Analysis (C. Lattanzio, D. Francesco - MS Teams code:)	Cancer genetics and biology for mathematical modelling (A. Tessitore, D. Capece - MS Teams code:)
Biomathematics (S. Fagioli, E. Radici - MS Teams code:)	Mathematical fluid and biofluid dynamics (D. Donatelli - MS Teams code:)
Systems Biology (A. Borri - MS Teams code:)	Italian Language for foreigners (level A2) (E. Mililli - MS Teams code:)

TIME ⌚	MONDAY	Classroom	TUESDAY	Classroom	WEDNESDAY	Classroom	THURSDAY	Classroom	FRIDAY	Classroom
08:30-09:30	Mathematical fluid and biofluid dynamics	Biancofiore	Mathematical fluid and biofluid dynamics	Biancofiore			Biomathematics	HPC		
09:30-10:30	Mathematical fluid and biofluid dynamics	Biancofiore	Mathematical fluid and biofluid dynamics	Biancofiore			Biomathematics	HPC		
10:30-11:30	Cancer genetics and biology	Lab. Math. Model.	Mathematical fluid and biofluid dynamics	Biancofiore			Biomathematics	HPC		
11:30-12:30	Cancer genetics and biology	Lab. Math. Model.	Cancer genetics and biology	Lab. Math. Model.	Mathematical fluid and biofluid dynamics	Biancofiore	Advanced Analysis	C1.16	Biomathematics	C1.16
12:30-13:30	Cancer genetics and biology	Lab. Math. Model.	Cancer genetics and biology	Lab. Math. Model.	Mathematical fluid and biofluid dynamics	Biancofiore	Advanced Analysis	C1.16	Biomathematics	C1.16
14:30-15:30	Advanced Analysis	C1.9	Advanced Analysis	C1.9					Systems Biology	0.6
15:30-16:30	Advanced Analysis	C1.9	Advanced Analysis	C1.9					Systems Biology	0.6
16:30-17:30	Advanced Analysis	C1.9	Italian Language for Foreigners	Digital Class	Italian Language for Foreigners	HPC	Systems Biology	A0.4	Systems Biology	0.6
17:30-18:30			Italian Language for Foreigners	Digital Class	Italian Language for Foreigners	HPC	Systems Biology	A0.4		

TIMETABLE: FIRST SEMESTER, A.Y. 2023/2024	MSC IN MATHEMATICAL MODELLING – SECOND YEAR
25 SEPTEMBER 2023 / 14 JANUARY 2024	ERASMUS MUNDUS INTERMATHS STUDY TRACK “Modelling and simulation of infectious diseases”
SUBJECTS	
Advanced Analysis (C. Lattanzio, D. Francesco - MS Teams code:)	Time series and prediction (U. Triacca - MS Teams code:)
Deterministic modelling in population dynamics and epidemiology (M. Di Francesco - MS Teams code:)	Computational methods in epidemiology (R. D’Ambrosio, C. Scalone - MS Teams code:)
Modelling and control of networked distributed systems (G. Pola - MS Teams code:)	Italian Language (level A2) , (E. Mililli - MS Teams code:)

TIME ①	MONDAY	Classroom	TUESDAY	Classroom	WEDNESDAY	Classroom	THURSDAY	Classroom	FRIDAY	Classroom
08:30-09:30	Computational methods in epidemiology	Lab. Math. Model.	Time series and prediction	A1.4			Deterministic modelling in population dynamics and epidemiology	Lab. Math. Model.	Computational methods in epidemiology	Lab. Math. Model.
09:30-10:30	Computational methods in epidemiology	Lab. Math. Model.	Time series and prediction	A1.4			Deterministic modelling in population dynamics and epidemiology	Lab. Math. Model.	Computational methods in epidemiology	Lab. Math. Model.
10:30-11:30			Time series and prediction	A1.4	Modelling and Control of networked distributed systems	HPC	Deterministic modelling in population dynamics and epidemiology	Lab. Math. Model.	Computational methods in epidemiology	Lab. Math. Model.
11:30-12:30					Modelling and Control of networked distributed systems	HPC	Advanced Analysis	C1.16		
12:30-13:30					Modelling and Control of networked distributed systems	HPC	Advanced Analysis	C1.16		
14:30-15:30	Advanced Analysis	C1.9	Advanced Analysis	C1.9	Deterministic modelling in population dynamics and epidemiology	HPC			Modelling and Control of networked distributed systems	A1.2
15:30-16:30	Advanced Analysis	C1.9	Advanced Analysis	C1.9	Deterministic modelling in population dynamics and epidemiology	HPC			Modelling and Control of networked distributed systems	A1.2
16:30-17:30	Advanced Analysis	C1.9	Italian Language for Foreigners	Digital Class	Italian Language for Foreigners	HPC				
17:30-18:30	Time series and prediction	A1.5	Italian Language for Foreigners	Digital Class	Italian Language for Foreigners	HPC				
18:30-19:30	Time series and prediction	A1.5								

TIMETABLE: FIRST SEMESTER, A.Y. 2023/2024	MSC IN MATHEMATICAL MODELLING – SECOND YEAR
25 SEPTEMBER 2023 / 14 JANUARY 2024	MATHMODS STUDY TRACK “Mathematical models in social sciences”
SUBJECTS	
Advanced Analysis (C. Lattanzio, D. Francesco - MS Teams code:)	Machine learning for Smart Cities Automation (A. D’Innocenzo, F. Smarra - MS Teams code:)
Mathematical Models for Collective Behaviour (D. Amadori - MS Teams code:)	Italian Language (level A2) , (E. Mililli - MS Teams code:)
Artificial Intelligence and Machine Learning for Natural Hazards Risk Assessment (F. Di Michele - MS Teams code:)	Mathematical Modelling and HPC Simulation of Natural Disasters (D. Pera - MS Teams code:)

*The course “Machine Learning for Smart Cities Automation” on Thursdays will follow the schedule 14:30 – 17.

TIME ①	MONDAY	Classroom	TUESDAY	Classroom	WEDNESDAY	Classroom	THURSDAY	Classroom	FRIDAY	Classroom
08:30-09:30	Artificial Intelligence and Machine Learning for Natural Hazards Risk Assessment	HPC			Mathematical Modelling and HPC Simulation of Natural Disasters	HPC			Artificial Intelligence and Machine Learning for Natural Hazards Risk Assessment	HPC
09:30-10:30	Artificial Intelligence and Machine Learning for Natural Hazards Risk Assessment	HPC			Mathematical Modelling and HPC Simulation of Natural Disasters	HPC			Artificial Intelligence and Machine Learning for Natural Hazards Risk Assessment	HPC
10:30-11:30	Mathematical Models for Collective Behavior	A1.1							Artificial Intelligence and Machine Learning for Natural Hazards Risk Assessment	HPC
11:30-12:30	Mathematical Models for Collective Behavior	A1.1	Machine Learning for Smart Cities Automation	A1.3			Advanced Analysis	C1.16		
12:30-13:30	Mathematical Models for Collective Behavior	A1.1	Machine Learning for Smart Cities Automation	A1.3			Advanced Analysis	C1.16		
14:30-15:30	Advanced Analysis	C1.9	Advanced Analysis	C1.9	Mathematical Models for Collective Behavior	A1.3	Machine Learning for Smart Cities Automation*	A1.4	Mathematical Modelling and HPC Simulation of Natural Disasters	HPC
15:30-16:30	Advanced Analysis	C1.9	Advanced Analysis	C1.9	Mathematical Models for Collective Behavior	A1.3	Machine Learning for Smart Cities Automation	A1.4	Mathematical Modelling and HPC Simulation of Natural Disasters	HPC
16:30-17:30	Advanced Analysis	C1.9	Italian Language for Foreigners	Digital Class	Italian Language for Foreigners	HPC	Machine Learning for Smart Cities Automation	A1.4	Mathematical Modelling and HPC Simulation of Natural Disasters	HPC
17:30-18:30			Italian Language for Foreigners	Digital Class	Italian Language for Foreigners	HPC				

TIMETABLE: FIRST SEMESTER, A.Y. 2023/2024	MSc IN MATHEMATICAL ENGINEERING – SECOND YEAR
25 SEPTEMBER 2023 / 14 JANUARY 2024	INTERNATIONAL STUDY TRACK “RealMaths” (double degree with TSNUK) – BRANCH “APPLIED MATHEMATICS”
SUBJECTS	
Real and Functional Analysis, (M. Palladino - MS Teams code:)	Italian Language for Foreigners (level A2) (E. Mililli - MS Teams code:)
Dynamical Systems and Bifurcation Theory (B. Rubino, M. Palladino - MS Teams code:)	Mathematical Modelling and HPC Simulation of Natural Disasters (D. Pera - MS Teams code:)
Biomathematics (S. Fagioli, E. Radici - MS Teams code:)	Artificial Intelligence and Machine Learning for Natural Hazards Risk Assessment (F. Di Michele - MS Teams code:)

*The course “Real and Functional Analysis” will start on October 24, 2023.

TIME 🕒	MONDAY	Classroom	TUESDAY	Classroom	WEDNESDAY	Classroom	THURSDAY	Classroom	FRIDAY	Classroom
08:30-09:30	Artificial Intelligence and Machine Learning for Natural Hazards Risk Assessment	HPC	Real and Functional Analysis	Biancofiore	Mathematical Modelling and HPC Simulation of Natural Disasters	HPC	Biomathematics	HPC	Artificial Intelligence and Machine Learning for Natural Hazards Risk Assessment	HPC
09:30-10:30	Artificial Intelligence and Machine Learning for Natural Hazards Risk Assessment	HPC	Real and Functional Analysis	Biancofiore	Mathematical Modelling and HPC Simulation of Natural Disasters	HPC	Biomathematics	HPC	Artificial Intelligence and Machine Learning for Natural Hazards Risk Assessment	HPC
10:30-11:30			Real and Functional Analysis	Biancofiore			Biomathematics	HPC	Artificial Intelligence and Machine Learning for Natural Hazards Risk Assessment	HPC
11:30-12:30					Real and Functional Analysis	Biancofiore	Real and Functional Analysis	Biancofiore	Biomathematics	C1.16
12:30-13:30					Real and Functional Analysis	Biancofiore	Real and Functional Analysis	Biancofiore	Biomathematics	C1.16
14:30-15:30	Dynamical Systems and Bifurcation Theory	Biancofiore	Dynamical Systems and Bifurcation Theory	Biancofiore	Dynamical Systems and Bifurcation Theory	Biancofiore			Mathematical Modelling and HPC Simulation of Natural Disasters	HPC
15:30-16:30	Dynamical Systems and Bifurcation Theory	Biancofiore	Dynamical Systems and Bifurcation Theory	Biancofiore	Dynamical Systems and Bifurcation Theory	Biancofiore			Mathematical Modelling and HPC Simulation of Natural Disasters	HPC
16:30-17:30	Real and Functional Analysis*	Biancofiore	Italian Language for Foreigners	Digital Class	Italian Language for Foreigners	HPC			Mathematical Modelling and HPC Simulation of Natural Disasters	HPC
17:30-18:30	Real and Functional Analysis	Biancofiore	Italian Language for Foreigners	Digital Class	Italian Language for Foreigners	HPC				

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25 SEPTEMBER 2023 / 14 JANUARY 2024	INTERNATIONAL STUDY TRACK “RealMaths” (double degree with TSNUK) – BRANCH “SYSTEMS AND METHODS OF DECISION MAKING”
SUBJECTS	
Systems Modelling and Simulation (D. Bianchi - MS Teams code:)	Italian Language for Foreigners (level A2) (E. Mililli - MS Teams code:)
Modelling and control of networked distributed systems (G. Pola - MS Teams code:)	Optimal Control (E. De Santis - MS Teams code:)
Process and Operations Scheduling (S. Smriglio - MS Teams code:)	Social Networks (S. Leucci - MS Teams code:)

*The course “Social Networks” will start in mid-November 2023.

TIME ①	MONDAY	Classroom	TUESDAY	Classroom	WEDNESDAY	Classroom	THURSDAY	Classroom	FRIDAY	Classroom
08:30-09:30	Optimal Control	1.1	Process and Operations Scheduling	HPC	Optimal Control	1.1	Systems Modelling and Simulations	A0.4		
09:30-10:30	Optimal Control	1.1	Process and Operations Scheduling	HPC	Optimal Control	1.1	Systems Modelling and Simulations	A0.4		
10:30-11:30	Optimal Control	1.1	Process and Operations Scheduling	HPC	Modelling and control of networked distributed systems	HPC	Systems Modelling and Simulations	A0.4		
11:30-12:30	Process and Operations Scheduling	A0.4			Modelling and control of networked distributed systems / Social Networks*	HPC / Lab. Math. Model.			Optimal Control	A1.3
12:30-13:30	Process and Operations Scheduling	A0.4			Modelling and control of networked distributed systems / Social Networks*	HPC / Lab. Math. Model.			Optimal Control	A1.3
14:30-15:30			Systems Modelling and Simulations	A1.3					Modelling and control of networked distributed systems	A1.2
15:30-16:30			Systems Modelling and Simulations	A1.3					Modelling and control of networked distributed systems	A1.2
16:30-17:30			Italian Language for Foreigners	Digital Class	Italian Language for Foreigners	HPC	Social Networks*	C1.16		
17:30–18:30			Italian Language for Foreigners	Digital Class	Italian Language for Foreigners	HPC	Social Networks*	C1.16		

TIMETABLE: FIRST SEMESTER, A.Y. 2023/2024	MSC IN MATHEMATICAL ENGINEERING – SECOND YEAR
25 SEPTEMBER 2023 / 14 JANUARY 2024	INTERNATIONAL STUDY TRACK “RealMaths” (double degree with IFNUL) – BRANCH “DECISION MAKING AND PREDICTION”
SUBJECTS	
Advanced Analysis (C. Lattanzio, D. Francesco - MS Teams code:) (9 CFU)	Italian Language for Foreigners (level A1) (R. Antonetti - MS Teams code:)
Time series and prediction (U. Triacca - MS Teams code:)	Machine learning for Smart Cities Automation (A. D’Innocenzo, F. Smarra - MS Teams code:)
Mathematics for Decision Making (M. Giuli - MS Teams code:)	

*The course “Machine Learning for Smart Cities Automation” on Thursdays will follow the schedule 14:30 – 17.

**The course “Mathematics for decision making” will start on October 5, 2023 and on Thursdays will follow the schedule 17:15 – 18:45.

TIME ①	MONDAY	Classroom	TUESDAY	Classroom	WEDNESDAY	Classroom	THURSDAY	Classroom	FRIDAY	Classroom
08:30-09:30			Time series and prediction	A1.4					Mathematics for decision Making	A1.3
09:30-10:30			Time series and prediction	A1.4					Mathematics for decision Making	A1.3
10:30-11:30			Time series and prediction	A1.4					Mathematics for decision Making	A1.3
11:30-12:30			Machine Learning for Smart Cities Automation	A1.3			Advanced Analysis	C1.16		
12:30-13:30			Machine Learning for Smart Cities Automation	A1.3			Advanced Analysis	C1.16		
14:30-15:30	Advanced Analysis	C1.9	Advanced Analysis	C1.9			Machine Learning for Smart Cities Automation*	A1.4		
15:30-16:30	Advanced Analysis	C1.9	Advanced Analysis	C1.9			Machine Learning for Smart Cities Automation	A1.4		
16:30-17:30	Advanced Analysis	C1.9	Italian Language for Foreigners	Biancofiore	Italian Language for Foreigners	Biancofiore	Machine Learning for Smart Cities Automation/ Mathematics for decision Making**	A1.4 / A1.5		
17:30–18:30	Time series and prediction	A1.5	Italian Language for Foreigners	Biancofiore	Italian Language for Foreigners	Biancofiore	Mathematics for decision Making	A1.5		
18:30-19:30	Time series and prediction	A1.5								

TIMETABLE: FIRST SEMESTER, A.Y. 2023/2024	MSC IN MATHEMATICAL ENGINEERING – SECOND YEAR
25 SEPTEMBER 2023 / 14 JANUARY 2024	INTERNATIONAL STUDY TRACK “RealMaths” (double degree with KNUST)
SUBJECTS	
Machine learning for Smart Cities Automation (A. D’Innocenzo, F. Smarra - MS Teams code:)	
Optional course 18 CFU	

*The course “Machine Learning for Smart Cities Automation” on Thursdays will follow the schedule 14:30 – 17.

TIME ①	MONDAY	Classroom	TUESDAY	Classroom	WEDNESDAY	Classroom	THURSDAY	Classroom	FRIDAY	Classroom
08:30-09:30										
09:30-10:30										
10:30-11:30										
11:30-12:30			Machine Learning for Smart Cities Automation	A1.3						
12:30-13:30			Machine Learning for Smart Cities Automation	A1.3						
14:30-15:30							Machine Learning for Smart Cities Automation*	A1.4		
15:30-16:30							Machine Learning for Smart Cities Automation	A1.4		
16:30-17:30							Machine Learning for Smart Cities Automation	A1.4		
17:30-18:30										

TIMETABLE: FIRST SEMESTER, A.Y. 2023/2024	MSc IN MATHEMATICAL ENGINEERING – SECOND YEAR
25 SEPTEMBER 2023 / 14 JANUARY 2024	INTERNATIONAL STUDY TRACK “RealMaths” (double degree with SUT)
SUBJECTS	
Advanced Analysis (C. Lattanzio, D. Francesco - MS Teams code:) (9 CFU)	Italian Language for Foreigners (level A1) (R. Antonetti - MS Teams code:)
Mathematical Modelling and HPC Simulation of Natural Disasters (D. Pera - MS Teams code:)	Artificial Intelligence and Machine Learning for Natural Hazards Risk Assessment (F. Di Michele - MS Teams code:)

TIME ⌚	MONDAY	Classroom	TUESDAY	Classroom	WEDNESDAY	Classroom	THURSDAY	Classroom	FRIDAY	Classroom
08:30-09:30	Artificial Intelligence and Machine Learning for Natural Hazards Risk Assessment	HPC			Mathematical Modelling and HPC Simulation of Natural Disasters	HPC			Artificial Intelligence and Machine Learning for Natural Hazards Risk Assessment	HPC
09:30-10:30	Artificial Intelligence and Machine Learning for Natural Hazards Risk Assessment	HPC			Mathematical Modelling and HPC Simulation of Natural Disasters	HPC			Artificial Intelligence and Machine Learning for Natural Hazards Risk Assessment	HPC
10:30-11:30									Artificial Intelligence and Machine Learning for Natural Hazards Risk Assessment	HPC
11:30-12:30							Advanced Analysis	C1.16		
12:30-13:30							Advanced Analysis	C1.16		
14:30-15:30	Advanced Analysis	C1.9	Advanced Analysis	C1.9					Mathematical Modelling and HPC Simulation of Natural Disasters	HPC
15:30-16:30	Advanced Analysis	C1.9	Advanced Analysis	C1.9					Mathematical Modelling and HPC Simulation of Natural Disasters	HPC
16:30-17:30	Advanced Analysis	C1.9	Italian Language for Foreigners	Biancofiore	Italian Language for Foreigners	Biancofiore			Mathematical Modelling and HPC Simulation of Natural Disasters	HPC
17:30-18:30			Italian Language for Foreigners	Biancofiore	Italian Language for Foreigners	Biancofiore				

TIMETABLE: FIRST SEMESTER, A.Y. 2023/2024	MSc IN MATHEMATICAL ENGINEERING – SECOND YEAR
25 SEPTEMBER 2023 / 14 JANUARY 2024	INTERNATIONAL - LOCAL STUDENTS
SUBJECTS	
Advanced Analysis (C. Lattanzio, D. Francesco - MS Teams code:)	Optimisation Models and Algorithms (C. Arbib - MS Teams code:)
Time series and prediction (U. Triacca - MS Teams code:)	Machine learning for Smart Cities Automation (A. D’Innocenzo, F. Smarra - MS Teams code:)
Mathematics for Decision Making (M. Giuli - MS Teams code:)	Systems Biology (A. Borri - MS Teams code:)

* The course “Optimisation Models and Algorithms” starts at 10 in the morning.

**The course “Machine Learning for Smart Cities Automation” on Thursdays will follow the schedule 14:30 – 17.

**The course “Mathematics for decision making” will start on October 5, 2023 and on Thursdays will follow the schedule 17:15 – 18:45.

TIME ①	MONDAY	Classroom	TUESDAY	Classroom	WEDNESDAY	Classroom	THURSDAY	Classroom	FRIDAY	Classroom
08:30-09:30			Time series and prediction	A1.4					Mathematics for decision making	A1.3
09:30-10:30			Time series and prediction	A1.4	Optimisation Models and Algorithms*	A1.5			Mathematics for decision making	A1.3
10:30-11:30			Time series and prediction	A1.4	Optimisation Models and Algorithms*	A1.5			Mathematics for decision making	A1.3
11:30-12:30			Machine Learning for Smart Cities Automation	A1.3			Advanced Analysis	C1.16	Optimisation Models and Algorithms	A1.1
12:30-13:30			Machine Learning for Smart Cities Automation	A1.3			Advanced Analysis	C1.16	Optimisation Models and Algorithms	A1.1
14:30-15:30	Advanced Analysis	C1.9	Advanced Analysis	C1.9			Machine Learning for Smart Cities Automation**	A1.4	Systems Biology	0.6
15:30-16:30	Advanced Analysis	C1.9	Advanced Analysis	C1.9			Machine Learning for Smart Cities Automation	A1.4	Systems Biology	0.6
16:30-17:30	Advanced Analysis	C1.9					Machine Learning for Smart Cities Automation / Mathematics for decision Making*** / Systems Biology	A1.4 / A1.5 / A0.4	Systems Biology	0.6
17:30-18:30	Time series and prediction	A1.5					Mathematics for decision Making / Systems Biology	A1.5 / A0.4		
18:30-19:30	Time series and prediction	A1.5								

TIMETABLE: FIRST SEMESTER, A.Y. 2023/2024	MSC IN MATHEMATICAL ENGINEERING – SECOND YEAR
25 SEPTEMBER 2023 / 14 JANUARY 2024	INTERNATIONAL - LOCAL STUDENTS
SUBJECTS	
Advanced Analysis (C. Lattanzio, D. Francesco - MS Teams code:)	Artificial Intelligence and Machine Learning for Natural Hazards Risk Assessment (F. Di Michele - MS Teams code:)
Mathematical Modelling and HPC Simulation of Natural Disasters (D. Pera - MS Teams code:)	Machine learning for Smart Cities Automation (A. D’Innocenzo, F. Smarra - MS Teams code:)
Numerical Methods for Stochastic Modelling (R.D’Ambrosio - MS Teams code:)	

*The course “Stochastic numerics laboratory” (S. Di Giovacchino) follows the same schedule of the course “Numerical methods for stochastic modelling”; the latter course will start on November 6, 2023.

**The course “Machine Learning for Smart Cities Automation” on Thursdays will follow the schedule 14:30 – 17.

TIME ①	MONDAY	Classroom	TUESDAY	Classroom	WEDNESDAY	Classroom	THURSDAY	Classroom	FRIDAY	Classroom
08:30-09:30	Artificial Intelligence and Machine Learning for Natural Hazards Risk Assessment	HPC			Mathematical Modelling and HPC Simulation of Natural Disasters	HPC			Artificial Intelligence and Machine Learning for Natural Hazards Risk Assessment	HPC
09:30-10:30	Artificial Intelligence and Machine Learning for Natural Hazards Risk Assessment	HPC			Mathematical Modelling and HPC Simulation of Natural Disasters	HPC			Artificial Intelligence and Machine Learning for Natural Hazards Risk Assessment	HPC
10:30-11:30	Numerical Methods for Stochastic Modelling*	HPC							Artificial Intelligence and Machine Learning for Natural Hazards Risk Assessment	HPC
11:30-12:30	Numerical Methods for Stochastic Modelling	HPC	Machine Learning for Smart Cities Automation	A1.3			Advanced Analysis	C1.16	Numerical Methods for Stochastic Modelling	HPC
12:30-13:30	Numerical Methods for Stochastic Modelling	HPC	Machine Learning for Smart Cities Automation	A1.3			Advanced Analysis	C1.16	Numerical Methods for Stochastic Modelling	HPC
14:30-15:30	Advanced Analysis	C1.9	Advanced Analysis	C1.9			Machine Learning for Smart Cities Automation**	A1.4	Mathematical Modelling and HPC Simulation of Natural Disasters	HPC
15:30-16:30	Advanced Analysis	C1.9	Advanced Analysis	C1.9			Machine Learning for Smart Cities Automation	A1.4	Mathematical Modelling and HPC Simulation of Natural Disasters	HPC
16:30-17:30	Advanced Analysis	C1.9					Machine Learning for Smart Cities Automation	A1.4	Mathematical Modelling and HPC Simulation of Natural Disasters	HPC