



ANNEX B: MAPPA STUDY PROGRAMME

Master's Degree in Mathématiques et Applications at Paris Dauphine - PSL				Master's Degree in Mathematics at UNIPD			
Year	Sem	Modules/Activities	ECTS	Year	Sem	Modules/Activities	ECTS
				1	1	Differential Geometry (SSD MAT/03)	8
				1	1	Stochastic Analysis (SSD MAT/06)	7
				1	1-2	Two of the following modules (SSD MAT/05): - Calculus of Variations - Functions Theory - Non-linear Analysis - Partial Differential Equations 1 - Partial Differential Equations 2	12-16
				1	1-2	One of the following modules (SSD MAT/07 and MAT/08): - Numerical Methods for Differential Equations - Dynamical Systems - Symplectic Mechanics	6-8
				1	1-2	Elective courses	20-25
				1	1-2	Seminar	3
2	1	Two of the following modules: - An Introduction to Dynamical Systems - Stochastic Calculus - Numerical Methods for Deterministic and Stochastic Problems - Introduction to Evolution PDEs - Introduction to Non-linear Elliptic PDEs - Limit Theorems and Large Deviations	12	2	1	Two of the following modules: - Advanced Mathematical Analysis A, B, C, D (SSD MAT/05) - Advanced Probability A, B, C, D (SSD MAT/06) - Advanced Numerical Analysis A, B (SSD MAT/08) - Advanced Mathematical Physics A, B (SSD MAT/07)	12

		- Continuous-time Markov Processes					
2	1-2	Elective courses	12	2	1-2	Two of the following modules: - Advanced Mathematical Analysis A, B, C, D (SSD MAT/05) - Advanced Probability A, B, C, D (SSD MAT/06) - Advanced Numerical Analysis A, B (SSD MAT/08) - Advanced Mathematical Physics A, B (SSD MAT/07)	12
2	1-2	Elective preparatory courses for the master thesis	18				
2	2	Master thesis	18	2	2	Master thesis	36