

**ANNEX B: Study Programme “Padova to PSL”**

YEAR	SEAT	TEACHING	ECTS CREDITS	ITALIAN SSD / DISCIPLINE	TYPOLOGY (ITALIAN RULES)	AREA
1°	PADOVA	DIFFERENTIAL GEOMETRY	8	MAT/03	CHARACTERISING	
		TEACHINGS IN THE FOLLOWING LIST: <ul style="list-style-type: none"> <li>INTRODUCTION TO PARTIAL DIFFERENTIAL EQUATIONS</li> <li>FUNCTIONS THEORY</li> <li>CALCULUS OF VARIATIONS</li> <li>ADVANCED ANALYSIS</li> </ul>	16	MAT/05	CHARACTERISING	
		STOCHASTIC ANALYSIS	7	MAT/06	CHARACTERISING	
		TEACHING IN THE FOLLOWING LIST: <ul style="list-style-type: none"> <li>DYNAMICAL SYSTEMS</li> <li>SYMPLECTIC MECHANICS</li> <li>NUMERICAL METHODS FOR DIFFERENTIAL EQUATIONS</li> </ul>	7	MAT/07 MAT/08	CHARACTERISING	
		TEACHINGS IN THE FOLLOWING LIST: <ul style="list-style-type: none"> <li>INTRODUCTION TO PARTIAL DIFFERENTIAL EQUATIONS</li> <li>FUNCTIONS THEORY</li> <li>CALCULUS OF VARIATIONS</li> <li>ADVANCED ANALYSIS</li> <li>DIFFERENTIAL EQUATIONS</li> <li>HARMONIC ANALYSIS</li> <li>INTRODUCTION TO STOCHASTIC PROCESSES</li> <li>STOCHASTIC METHODS FOR FINANCE</li> <li>OPTIMIZATION FOR DATA SCIENCE</li> <li>COMPUTATIONAL FINANCE</li> <li>DYNAMICAL SYSTEMS</li> <li>SYMPLECTIC MECHANICS</li> <li>NUMERICAL METHODS FOR DIFFERENTIAL EQUATIONS</li> </ul>	22	MAT/05 MAT/06 SECS-S/06 MAT/09 SECS-P/05 MAT/07 MAT/08	COMPLEMENTARY	
			60			

2°	PARIS DAUPHINE	TEACHINGS IN THE FOLLOWING LIST: <ul style="list-style-type: none"> <li>INTRODUCTION TO NON-LINEAR PDES</li> <li>INTRODUCTION TO EVOLUTION PDES</li> <li>MEAN FIELD GAMES</li> <li>STOCHASTIC CONTROL</li> <li>JUMP PROCESSES</li> <li>LARGE DEVIATION AND APPLICATIONS</li> <li>HAMILTONIAN DYNAMICAL SYSTEM</li> <li>INTRODUCTION TO CELESTIAL AND HAMILTONIAN MECHANICS</li> <li>NUMERICAL METHODS FOR PARTIAL DIFFERENTIAL EQUATIONS AND CONTROL</li> <li>MONTE-CARLO AND DETERMINISTIC METHODS FOR PARABOLIC EQUATIONS</li> </ul>	12	MAT/05 MAT/06 MAT/07 MAT/08	CHARACTERISING	
		FREE EXAMS	8		FREE	
		SEMINARS	4		OTHER	
		MASTER THESIS	36		THESIS	
			60			