

Doctoral Program in Mathematics 2016/17: List of PhD Courses at IST (at FCUL)

1 Semester

Area	PhD Course	Lecturer
Differential Equations and Dynamical Systems/ Mathematical Analysis		
	Ordinary and Functional Differential Equations	Teresa Faria/Carlota Gonçalves
Algebra and Topology/Algebra		
	Inverse Semigroups	Gracinda Gomes
	Theory of Matrices	Fernando Conceição e Silva
	Multilinear Algebra (M/D)	Maria Manuel Torres
Geometry/Geometry and Topology		
	Differential Topology (M/D)	Pedro Duarte
Mathematical Physics		
Real Analysis and Functional Analysis/ Mathematical Analysis		
	Algebras of Operators	Amélia Bastos
Numerical Analysis and Applied Analysis		
	Stochastic Calculus	Ana Bela Cruzeiro
	Numerical Methods for Ordinary Differential Equations	Pedro Lima
	Mathematical and Numerical Methods in Fluid Dynamics	Ana Leonor Silvestre
Logic and Computation		
	Kleistic Logic	Carlos Caleiro
	Computability and Complexity of Learning	José Félix Costa
	Modal Logic	João Rasga

	Theory of Computability, Complexity and Information	Cristina Sernadas
	Advanced Topics in Information Security I	Paulo Mateus
	Model Theory	Mário Edmundo
Probability and Statistics		
	Advanced Topics in Statistical Inference	Manuel Scotto
	Advanced Topics in Probabilities and Stochastic Processes	António Pacheco

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2 Semester

Area	PhD Course	Lecturer
Differential Equations and Dynamical Systems/ Mathematical Analysis		
	Calculus of Variations and Partial Differential Equations	Margarida Baía
	Discrete Dynamical Systems	João Alves
	Partial Differential Equations (M/D)	José Francisco Rodrigues/Hugo Tavares
	Differential Equations and Dynamical Systems (M/D)	Jorge Buescu
Algebra and Topology/Algebra		
	Rings, Algebras and Representations (M/D)	Carlos André
Geometry/Geometry and Topology		
	Algebraic Geometry	Pedro Ferreira dos Santos
	Knot Theory	Pedro Lopes
	Theory of D-modules and Symplectic Geometry	Teresa Monteiro Fernandes
	Lie Groups and Lie Algebras (M/D)	Susana Santos
Mathematical Physics		
	Mathematical Relativity	Pedro Girão
	String Theory	Gabriel Lopes Cardoso
	Probability in Quantum Mechanics	Jean-Claude Zambrini
Real Analysis and Functional Analysis/ Mathematical Analysis		
	Topics in Operator Algebras	Pedro Alexandre Simões dos Santos
	Biomathematics (M/D)	Nico Stollenwerk
Numerical Analysis and Applied Analysis		

Logic and Computation		
	Quantum Computation, Information and Logic	Yasser Omar
	Mathematical Logic (M/D)	Fernando Ferreira
Probability and Statistics		
	Advanced Topics in Multivariate Analysis	Rosário Oliveira