

Doctoral Program in Mathematics 2014/15: List of PhD Courses at IST

IST

1 Semester

Area	PhD Course	Lecturer
Differential Equations and Dynamical Systems		
	Evolution Partial Differential Equations	João Teixeira Pinto
Algebra and Topology		
Geometry		
	Lie Groups and Lie Algebras	Carlos Florentino
Mathematical Physics		
	Functional Integration and Applications to Quantum Mechanics	Ana Bela Cruzeiro
Real Analysis and Functional Analysis		
	Algebras of Operators	Amélia Bastos
Numerical Analysis and Applied Analysis		
	Numerical Analysis of Integral Equations	Teresa Diogo
	Topics in Numerical and Applied Analysis	Juha Videman
	Mathematical and Numerical Methods in Fluid Dynamics	Ana Leonor Silvestre

Logic and Computation		
	Computability and Complexity of Learning	José Félix Costa
	Kleistic Logic	Carlos Caleiro
	Modal Logic	João Rasga
	Theory of Computability, Complexity and Information	Amílcar Sernadas
	Advanced Topics in Information Security I	Paulo Mateus
Probability and Statistics		
	Advanced Topics in Probabilities and Stochastic Processes	António Pacheco Pires
	Advanced Topics in Multivariate Analysis	Rosário Oliveira
	Advanced Topics in Statistical Inference	Paulo Soares

Doctoral Program in Mathematics 2014/15: List of PhD Courses at IST

IST

2 Semester

Area	PhD Course	Lecturer
Differential Equations and Dynamical Systems		
	Calculus of Variations and Partial Differential Equations	José Matias
	Bifurcation Theory in Differential Equations	Carlos Rocha
Algebra and Topology		
Geometry		
	Algebraic Geometry	Pedro Ferreira dos Santos
	Knot Theory	Pedro Lopes
	Symplectic Geometry	Miguel Abreu
Mathematical Physics		
	String Theory	Gabriel Lopes Cardoso
Real Analysis and Functional Analysis		
	Topics in Operator Algebras	Pedro Alexandre Simões dos Santos

Numerical Analysis and Applied Analysis		
	Inverse Problems for Differential Equations and Medical Imaging	Carlos Alves
	Stochastic Calculus	Remi Lassalle
Logic and Computation		
	Quantum Computation, Information and Logic	Paulo Mateus
	Functional Logic and Proof Theory	Carlos Caleiro
Probability and Statistics		