



AIMS

**African Institute for
Mathematical Sciences
SOUTH AFRICA**

AIMS STRUCTURED MASTER'S IN MATHEMATICAL SCIENCES

SKILLS AND REVIEW COURSES 2019

Dates 2019	Course title	Lecturer	Affiliation
7 January onwards	Computing & LaTeX	Jan Groenewald and tutors	AIMS South Africa
7-25 Jan	Python	Jeff Sanders, Martha Kamkuemah and Jordan Masakuna	AIMS South Africa
	Algebraic Number Theory	Peter Stevenhagen & Rene Schoof	Leiden & Tor Vergata
	Fluid Dynamics	Herbert Huppert & Richard Katz	University of Cambridge and University of Oxford
	Financial Mathematics	Ronnie Becker	AIMS South Africa
28 Jan- 15 Feb	Experimental Mathematics with Sage	Eric Andriantiana	Rhodes University
	Introduction to Random Systems, Information Theory, and related topics	Stéphane Ouvry	Université Paris Sud XI
	Industrial Modelling	Neville Fowkes	University of Western Australia
	Quantum Mechanics	Herbert Weigel	Stellenbosch University
18-22 Feb	Mathematical Problem Solving	Eric Andriantiana	Rhodes University
25 Feb - 1 March	Entrepreneurship case studies	Stefan Jaehnichen	TU Berlin
25 Feb - 15 Mar	Statistics	Spiegelhalter and Jeff	Cambridge University and AIMS South Africa
	Analytical Techniques in Mathematical Biology	Wilson Lamb	Strathclyde University
	Computational Algebra	Wolfram Decker and Gerhard Pfister	TU Kaiserslautern
	General Relativity	Costas Zoubos	University of Pretoria

18 Mar - 5 Apr	Solitons	Patrick Dorey	Durham University
	Algebraic Biology	Elena Dimitrova	Clemson University
	Julia and differential equations	Henri Laurie	University of Cape Town
8-12 April	Reading week		
15 Apr - 3 May	Insurance Economics	Juerg Weber	University of Western Australia
	Surfaces	Steve Bradlow	University of Illinois at Urbana-Champaign
6-17 May	Asymptotics & Perturbation Methods	Peter Clarkson Kerstin Jordaan	University of Kent, University of Pretoria
	Data Science	Jeff Sanders	AIMS South Africa
20 May - 7 Jun	Distributed Coordination	Simukai Utete	AIMS South Africa
	Numerical Maths	Justin Munyakazi	University of the Western Cape
10-28 Jun	Symmetry Analysis of Differential Equations	Masood Khaliq	North West University
October 2019	Entrepreneurship	Jonathan Marks	Gordon Institute of Business Studies
October 2019	Physical Problem Solving	David Aschman	University of Cape Town