



# AIMS

**African Institute for  
Mathematical Sciences  
SOUTH AFRICA**

## AIMS STRUCTURED MASTER'S IN MATHEMATICAL SCIENCES

### REVIEW COURSES 2019-20

Dates	Course	Lecturer	Affiliation
11-29 Nov	Harmonic Analysis	Kinvi Kangi	University Felix Houphouet Boigny
11-29 Nov	Differential Equations	Fernando Pestana da Costa	Aberta University
11-29 Nov	Quantum Mechanics	Rafael Nepomechie	University of Miami
2-20 Dec	Signal Processing with Python	Paul Taylor	National Institutes of Health, Bethesda, USA
2-20 Dec	Knot Theory	Bruce Bartlett	Stellenbosch University
9-13 Dec	Data Analytics	Pete Grindrod and Jeff Sanders	Oxford University and AIMS South Africa
21 Dec - 5 Jan	<b>December break</b>		
6-24 Jan	Mathematics in Industry Study Group	Workshop	University of the Witwatersrand
6-24 Jan	Model Theory	Charlotte Kestner	Imperial College
6-24Jan	Fluid Dynamics	Grae WorsterRichard Katz	University of Cambridge University of Oxford
7-25 Jan	Financial Mathematics	Ronnie Becker Han-Georg Zimmerman	AIMS South Africa Fraunhofer
27 Jan - 14 Feb	Introduction to Random Systems, Information Theory, and related topics	Stéphane Ouvry	Université Paris Sud XI
27 Jan - 14 Feb	Networks	Phil Knight	University of Strathclyde
27 Jan - 14 Feb	Industrial Modelling	Neville Fowkes	University of Western Australia
18 - 22 Feb	<b>Reading week</b>		
24 Feb - 28 Feb	Entrepreneurship case studies	Stefan Jaehnichen	TU Berlin

24 Feb - 13 Mar	Analytical Techniques in Mathematical Biology	Wilson Lamb	Strathclyde
24 Feb - 13 Mar	Computational Algebra	Wolfram Decker and Gerhard Pfister	TU Kaiserslautern
24 Feb - 13 Mar	Atmospheric Modelling	Douw Steyn Stefano Galmarini	University of British Columbia Institute for Environment and Sustainability, Italy
16 Mar - 3 Apr	Solitons	Patrick Dorey	Durham University
16 Mar - 3 Apr	Algebraic Biology	Matt Macauley	Clemson University
16 Mar - 3 Apr	Joerg Zintl	Algebraic Geometry	TU Kaiserslautern