

DEPARTMENT OF MATHEMATICAL SCIENCES

Introduction

The department of Mathematical Sciences consists of 3 disciplines, Pure Mathematics, Applied Mathematics & Statistics. We offer service courses, as well as dual majors.

Career path

- Research in higher education, government and industry
- Teaching in the public schools, community colleges and colleges
- Testing and validation of processes and systems including computer software
- Statistical support including marketing research
- Actuarial work and experimental design
- Software design and data analyst
- Mathematical modelling in business, management information systems and computer information systems
- Data Scientist
- Insurance agencies
- Airlines and other transportation service providers
- Financial institutions

MOUs

The University of Zululand through the department of Mathematical Sciences has signed MOUs with the following institutions:

- NRF Wits CoE MaSS
- DMISRS
- UP for Teaching Grant Programme

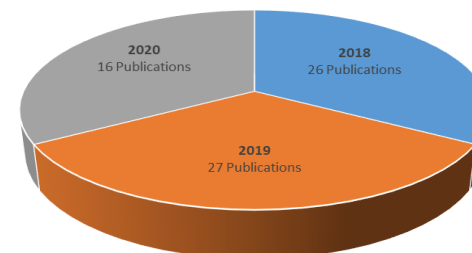
Main Research Focus Areas

- PDEs and ODEs
- Stochastic analysis and applications to the mathematics of finance
- Optimisation
- Mathematical biology with emphasis on epidemiology
- Statistics
- General Relativity, Astrophysics and Cosmology
- Signal Processing, Machine learning and Image Analysis

Expert List

Prof A Beesham, Prof SS Xulu, Mr L Majozi
Dr MB Matadi (HoD), Dr S Krishnannair,
Dr SL Tilahun, Mr J Cloete, Mr W Dlamini,
Mr PL Zondi, Mr S Sibiyi, Mr M Kubheka,
Mr M Njabulo

Research output 2018-2020



Postgrads stats 2017-2020

	Enrolled	Completed
PhD	4	2
MSc	15	3
Honours	20	18

Recent workshops

AWMO (African Workshop on Mathematical Optimisation) University of Zululand, 11-15 November 2019

Mathematics in Industry Modelling Workshop –**MISG 2020**: 8- 13 January 2020 at the KwaDlangezwa Campus. Participants: 27 academics, researchers and 36 postgraduate students teamed up with 6 representatives from local industries in order to solve various industry-related problems using mathematical models.



Community Engagement

We believe that it is vital to communicate our work to the world outside of academia. Every year, the department of Mathematical sciences is organizing a workshop in Hlabisa municipality to enhance knowledge of High school teachers in Mathematics and Statistics.

