

Faculty of Natural and Agricultural Sciences

Paloulielt Hetuur- en Larelleouweterologige Lafondes la Disserson tils Thomas la Torra

BSc (Mathematics) and BSc (Applied Mathematics)

Mathematics, which originated from arithmetic and geometry, is based on patterns and structures and is the fundamental language of science and technology. Applied mathematics is concerned with the modelling and treatment of real-life problems in a variety of fields, such as engineering finance, statistics, physics and biology. The power of mathematics and applied mathematics lies in their abstract, analytical and computational nature. Newwadays, mathematics is essential for all technological, financial and managerial industries, which form the backbone of the South African economy.

BSc (Mathematics)

Compulsory subjects are:

- Amalysis
- Abstract algebra
- Geometry (third-year level)
- Celculus
- Linear algebra
- Differential equations
- Differencial equations
- Discrete structures (se cond-year level)
- Mathematical modelling
- Methernatical statistics.
- Numerical analysis.
- Dynamical processes (first-year level).

BSc (Applied Mathematics)

Compulsory subjects are:

- Arrenbysis
- Continuum me chanics.
- Numerical analysis.
- Partial differential equations.
- Dynamical systems (third-year level)
- Calculus
- Liniear algebra
- Discrete structures
- Differential equations (second-year level)
- Mathematical modelling
- Mathematical statistics
- Dynamical processes (first-year level)





Who is the ideal candidate?

Mathematics students who enjoy the course and excel in it are those who enjoy solving problems and have a strong background in the basics of the subject.



What makes this programme unique?

The Department of Mathematics and Applied Mathematics is not only one of the largest departments on the Hatfield Campus, but also one of the largest mathematics departments in the country, with approximately 17 500 student enrolments for mathematics modules. The Department prides itself on excelling in teaching and research, as well as in community-based activities.

The diverse and competent staff has expertise in various fields. The Department regularly hosts international visitors and its researchers frequently travel abroad to attend conferences and pay research visits. No fewer than 31 of its researchers have received NRF ratings in fields ranging from more traditional abstract analysis to contemporary epidemiology, where the modelling of biological phenomena leads to exciting options.

A degree in mathematics trains students to apply, evaluate and adapt existing problem-solving techniques, or to develop new mathematical models and techniques to solve problems stemming from natural, technological and financial phenomena.



What career opportunities exist for graduates?

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Graduates in mathematics and applied mathematics are employed by research institutions, in education (universities and schools), the public sector (government and medical institutions) and the private sector (engine ening companies, financial institutions and the computer industry).

The training of these graduates in abstract, analytical and computational thinking provides them with the versatile background required to easily adjust to changing circumstances in the professional environment and to construct mathematical models of natural, technological and financial phenomena. Mathematicians and applied methematicians apply, evaluate and adapt existing problem-solving techniques or develop new techniques to solve those problems.



$$a = \int_{0}^{1} x^{d-1} (1-x)^{b-1} dx =$$

Which companies employ our graduates?

A BSc (Mathematics) or BSc (Applied Mathematics) degree is a solid foundation for a professional career in many fields. Many of our graduates are employed by the banking and financial sector, but also in new fields like bioinformatics, genetics, management consulting, weather forecasting, etc. As there is a general shortage of mathematicians in South Africa, top performing students opt for further studies and an academic career.

Bsc Mathematics And Applied Mathematics Unisa

Albert A Gayle

Bsc Mathematics And Applied Mathematics Unisa:

The Calendar University of South Africa, 1994 The A to Z of Careers in South Africa ,2006 The Power of Your Life Grietjie Verhoef, 2018-10-22 This book explores a century of business development of The South African Life Assurance Company from a specific local focus to a national conglomerate expanding into global insurance markets Established as a strategic vehicle to address Afrikaner economic marginalization and abject poverty at the beginning of the twentieth century Sanlam has displayed both path dependence and a dynamic adaptability to complex changing contexts to become a global player The strategic convergence of economic empowerment through the mobilization of savings into insurance products as well as Afrikaner nationalism assisted this growth Sanlam has played an a typical role in the economic empowerment of an ethnic entity through extensive investments into the industrializing South African economy This strategic diversion created operational limitations that were only resolved early in the twenty first century As globalization financial deregulation and weakened Afrikaner political and social hegemony manifested strategic change management relied on the path dependence of empowerment strategies to address new markets with similar needs to those of the early stakeholder market of 1918 The former mutual life office demutualized operations to become a diversified financial services group of companies operating across almost the entire African continent as well as in India Malaysia and the UK This volume presents a business history of strategic management of an insurance enterprise and its transformation from a defined cultural context into an international empowerment strategy through innovation on all levels of business operation and organization This book is an Open Access publication available online under a CC BY NC ND 4 0 license Who Owns Whom in South Africa ,2007 The Mail & Guardian A-Z of South African Politics Paul Stober, Barbara Ludman, 2004 The A Z of South African Politics 2004 is an essential and entertaining guide for navigating the corridors of power in South Africa today Written by Mail Guardian reporters and other experts associated with the award winning newspaper the book will give readers an under the skin look at the country's political movers and shakers Three previous editions of the AZ of SA Politics have been best sellers The MG decided to compile a fourth edition after continual requests by readers and booksellers for another edition looking at who s in who s out and who s important in South African political life and what it means for the rest of us This lively reference work covers national government judges priests and premiers and those people out of government whom it would be folly to ignore

Artificial Intelligence in Industry 4.0 and 5G Technology Pandian Vasant, Elias Munapo, J. Joshua Thomas, Gerhard-Wilhelm Weber, 2022-07-20 Artificial Intelligence in Industry 4.0 and 5G Technology Explores innovative and value added solutions for application problems in the commercial business and industry sectors As the pace of Artificial Intelligence AI technology innovation continues to accelerate identifying the appropriate AI capabilities to embed in key decision processes has never been more critical to establishing competitive advantage New and emerging analytics tools and technologies can be configured to optimize business value change how an organization gains insights and significantly

improve the decision making process across the enterprise Artificial Intelligence in Industry 4 0 and 5G Technology helps readers solve real world technological engineering optimization problems using evolutionary and swarm intelligence mathematical programming multi objective optimization and other cutting edge intelligent optimization methods Contributions from leading experts in the field present original research on both the theoretical and practical aspects of implementing new AI techniques in a variety of sectors including Big Data analytics smart manufacturing renewable energy smart cities robotics and the Internet of Things IoT Presents detailed information on meta heuristic applications with a focus on technology and engineering sectors such as smart manufacturing smart production innovative cities and 5G networks Offers insights into the use of metaheuristic strategies to solve optimization problems in business economics finance and industry where uncertainty is a factor Provides guidance on implementing metaheuristics in different applications and hybrid technological systems Describes various AI approaches utilizing hybrid meta heuristics optimization algorithms including meta search engines for innovative research and hyper heuristics algorithms for performance measurement Artificial Intelligence in Industry 4 0 and 5G Technology is a valuable resource for IT specialists industry professionals managers and executives researchers scientists engineers and advanced students an up to date reference to innovative computing uncertainty management and optimization approaches Intelligent Computing & Optimization Pandian Vasant, Ivan Zelinka, Gerhard-Wilhelm Weber, 2021-12-30 This book includes the scientific results of the fourth edition of the International Conference on Intelligent Computing and Optimization which took place at December 30 31 2021 via ZOOM The conference objective was to celebrate Compassion and Wisdom with researchers scholars experts and investigators in Intelligent Computing and Optimization worldwide to share knowledge experience innovation marvelous opportunity for discourse and mutuality by novel research invention and creativity This proceedings encloses the original and innovative scientific fields of optimization and optimal control renewable energy and sustainability artificial intelligence and operational research economics and management smart cities and rural planning meta heuristics and big data analytics cyber security and blockchains IoTs and Industry 4 0 mathematical modelling and simulation health care and medicine 22nd European Conference on e-Learning Shawren Singh, Sarah Jane Johnston, 2023-10-26 These proceedings represent the work of contributors to the 22nd European Conference on e Learning ECEL 2023 hosted by University of South Africa Pretoria South Africa on 26 27 October 2023 The Conference Co Chairs Associate Professor Sarah Jane Johnston and Associate Professor Shawren Singh both from University of South Africa Pretoria South Africa ECEL is now a well established event on the academic research calendar and now in its 22nd year the key aim remains the opportunity for participants to share ideas and meet the people who hold them The scope of papers will ensure an interesting two days The subjects covered illustrate the wide range of topics that fall into this important and ever growing area of research It is especially relevant that the conference is being hosted by UNISA this year as the university celebrates its 150th anniversary UNISA has been a pioneer

in first distance and now e Learning The conference will also host the final round of the 9th e Learning Excellence Awards where innovate case histories will be presented The opening keynote presentation is given by Professor Thenjiwe Meyiwa Vice Principal for the Research Postgraduate Studies Innovation and Commercialisation at University of South Africa who will speak on The Role of African Feminisms in Shaping a Sustainable Future of Being and Learning An afternoon keynote on Thursday will be made by Dr Zolile Martin Mguda University of South Africa on the topic of ChatGPT The first year The second day of the conference will open with an address by Dr Isabel Tarling MD Limina South Africa with the title Developing Digital Standards for Learning and Teaching in South Africa's Schools With an initial submission of 100 abstracts after the double blind peer review process there are 45 Academic research papers 3 PhD research papers and 1 Masters Research paper published in these Conference Proceedings These papers represent research from Belgium Canada Chile Czech Republic France Germany Ghana Greece Hong Kong Ireland Japan Malaysia Mozambique Norway Oman Per Poland Portugal Romania Singapore South Africa Sri Lanka Sweden Switzerland Turkey and the United Kingdom Official South African Municipal Yearbook, 1985 Women Marching Into the 21st Century, 2000 You strike a woman you strike a rock On the 44th anniversary of the women's defiance campaign this book pays tribute to the many women who have shaped the history of South Africa

This book delves into Bsc Mathematics And Applied Mathematics Unisa. Bsc Mathematics And Applied Mathematics Unisa is an essential topic that must be grasped by everyone, from students and scholars to the general public. This book will furnish comprehensive and in-depth insights into Bsc Mathematics And Applied Mathematics Unisa, encompassing both the fundamentals and more intricate discussions.

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- 3. In chapter 2, the author will delve into the foundational concepts of Bsc Mathematics And Applied Mathematics Unisa. The second chapter will elucidate the essential principles that must be understood to grasp Bsc Mathematics And Applied Mathematics Unisa in its entirety.
- 4. In chapter 3, the author will examine the practical applications of Bsc Mathematics And Applied Mathematics Unisa in daily life. This chapter will showcase real-world examples of how Bsc Mathematics And Applied Mathematics Unisa can be effectively utilized in everyday scenarios.
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