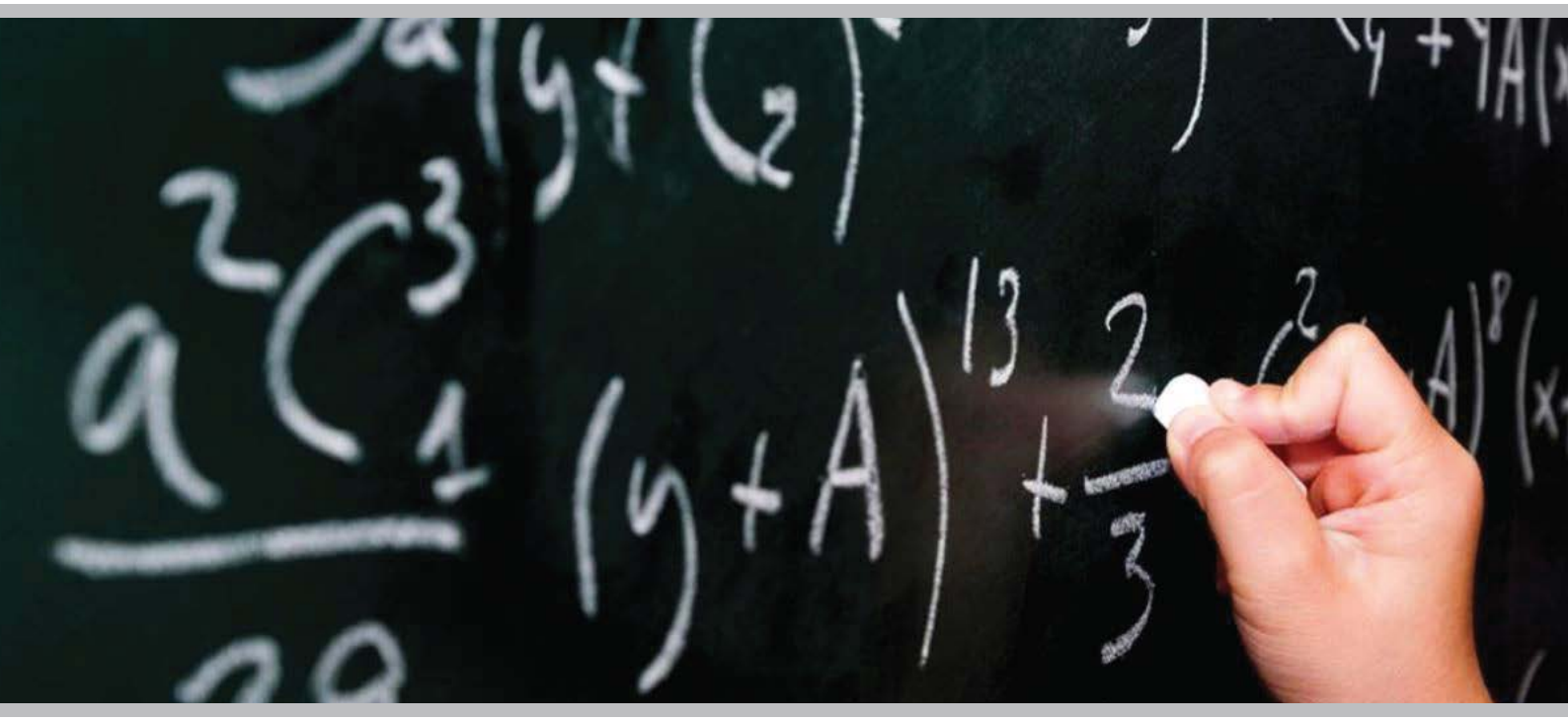
UNIVERSITY OF KWAZULU-NATAL ™
INYUVESI YAKWAZULU-NATALI

EXTENDED LEARNING

Foundation Mathematics



Durban/PMB

OUR WORLD IS CHANGING... SHOULDN'T YOU?

Foundation Mathematics

Programme overview & objectives:

There are very few opportunities in life that are really worth taking, that present themselves a second time. With such a high percentage of Grade 12 learners not meeting the Mathematics entrance requirements for study at a university, this course is designed to give these learners a second chance.

It is put together as an intense two-week (80 hour) course that allows students who pass with 60%, access to study a degree at UKZN where Mathematics is a pre-requisite, provided that the applicant meets the other qualifying criteria of the University

Due to the intense nature of this course, only individuals who completed their Matric in the past three years should apply. Applicants also need to enquire directly with the relevant College before completing this course

How you will benefit. You will learn to:

- Concentrate on just one subject instead of six or more
- Improve your understanding of mathematical concepts
- Gain confidence as you work through examples on your own and in the classroom
- Draw on the experience and skills of a Mathematics specialist at UKZN

Key focus areas:

- Set theory
- Equations and inequalities
- Perimeter, area and volume
- Linear, quadratic, semi-circles, rectangular hyperbola and piecewise functions
- Absolute values, circular (trigonometry), exponential and logarithmic
- Introduction to differential calculus and word problems

Who should attend:

- School leavers who passed Mathematics in their final NSC examinations (Matric examinations) desiring to pursue a Science or Commerce related degree
- This course provides possible access to a Bachelor's degree at UKZN, where Grade 12 Mathematics is an entrance requirement, provided that the applicant meets the other qualifying criteria of the University

Entrance requirements:

To be considered for registration, an applicant must have obtained a pass symbol on Standard or Higher Grade Mathematics or NSC Mathematics in the final examinations in Grade 12

Programme fee:

The programme fee of R6 290 (incl. VAT) covers tuition and instruction material

Duration:

Two weeks, Monday to Friday

Facilitators include:

Dr Maga Moodley
Maga joined the Springfield College of Education in 1989 as a lecturer, and in 1992 received a Harvard Scholarship to undertake a Master's in Education degree in the US. In 1995, Dr Moodley served as the coordinator of the AMESA National Conference, and was elected Vice President: Natal Region in 2001. He joined the University of Natal as a senior tutor in 2002, and was appointed as a Lecturer in the School of Mathematics in 2007. During the past 10 years, Dr Moodley was actively involved in Mathematics education in rural communities, in stimulating excellence against international norms through AMESA, and was invited to present at international conferences for the promotion of Mathematics education.

Shunmugam Pillay
Shunmugam is a lecturer at UKZN. He obtained Dip Ed, a BA and a B Ed Hons (UNISA). He has also completed his Master's in Higher Education specialising in Mathematics. He has published and presented several papers: teaching and learning - Mathematics, Geometric centroids of polygons and Blended Learning (pilot project-UEL). He is a coordinator of bridging modules at UKZN and a SAMF coach for Maths Olympiads. Shunmugam received a distinguished Teacher's Award in 1997: AMESA KZN.

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UKZN Extended Learning (UEL) is committed to enrichment through lifelong learning, by providing high quality credit and non-credit bearing short courses and academic programmes in collaboration with schools and colleges of the University of KwaZulu-Natal. In a fast-changing environment, developing relevant and useful skills and knowledge, and the capacity to deliver results, is more important than ever. Our courses are designed using the very best methods by combining content, based on both tried and tested results, and recent cutting edge research, with interactive experiential teaching and learning from local and international faculty and guest speakers.

Dates:

For updated course dates, please contact us or see our website: www.ukznextendedlearning.com

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