



UNIVERSITY OF  
KWAZULU-NATAL™  
INYUVESI  
YAKWAZULU-NATALI

**EXTENDED  
LEARNING**

## Foundation Mathematics



CONTINUING EDUCATION

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

# Foundation Mathematics

## About this programme

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 programme is designed to give these learners a second chance.

It is put together as an intense two-week (80 hour) programme 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 programme, 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 programme.

## How you will benefit

- 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 programme provides possible access to a Bachelor's degree 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

## 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 his time at UKZN, 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.

## Programme fee

The programme fee of R6 900 (incl. VAT) covers tuition, instruction material, lunches and refreshments

## Duration

Two weeks, Monday to Friday

## Dates

For updated start dates, please contact us or visit our website: [www.ukznextendedlearning.com](http://www.ukznextendedlearning.com)

*Disclaimer: Due to the extended planning horizon, UEL reserves the right to amend dates and prices at short notice, whilst protecting the consumer rights and interests of prospective delegates. For the most accurate information, please visit our website: [www.ukznextendedlearning.com](http://www.ukznextendedlearning.com)*

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