



UNIVERSITY OF
KWAZULU-NATAL™
INYUVESI
YAKWAZULU-NATALI

**EXTENDED
LEARNING**

Foundation Physics



Durban

Foundation Physics

Programme overview & objectives:

There is an inherent need to increase the number of Science, Technology, Engineering and Mathematics graduates in Higher Education.

The Foundation Physics programme aims to enhance the competencies of students in Physics to the level of that required for entry into science-related degrees at UKZN. Students who otherwise may not have had the opportunity to study science-related fields will have the chance to do so after completing this course.

How you will benefit. You will learn to:

- Identify and solve problems in Physics which require responsible decisions made by using critical and creative thinking
- Organise and manage one's learning of Physics and activities effectively which will enable you to evaluate your own performance and that of others and to take responsibility for your actions
- Demonstrate an understanding of how Physics can help in explaining the world around us as a set of related systems and by recognising that problem solving contexts do not exist in isolation
- Discover and explore a variety of strategies employed at tertiary level which will not only enable you to have a deeper understanding of Physics, but which will also assist in studying other subjects
- Effectively collect, analyse, organise and evaluate information related to Physics
- Communicate effectively using visual, mathematical and/or language skills in the modes of oral and/or written text
- Use physics and technology effectively, showing responsibility towards the environment and health of others
- Work effectively with others as a member of a team, group, organisation or community

Key focus areas:

- Basic properties of matter
- Scalars and vectors
- Motion in 1 and 2 dimensions
- Newton's laws of motion and gravitation
- Electrostatics and current electricity

Who should attend:

Students who did not make the entry requirements for a BSc degree or for the BSc (Augmented) degree

Entrance requirements:

- a) NSC degree pass with a minimum of 26 points and Maths Level 3 (40%), Physical Science Level 3 (40%) and English Level 3 (40%)
- b) Senior Certificate with full matriculation endorsement and a minimum score of 20 points with at least standard grade E for Maths and standard grade E for Physical Science

Facilitators include:



Dr Juggy Govender

BSc, BSc (Honours, Physics), BSc (Honours, Maths), MSc (Physics), PhD (Physics), Secondary Teachers Diploma

Dr Govender has extensive experience in Physics education, having taught high school Physical Science, as senior lecturer in Physics at Springfield College of Education, as Physical Science subject advisor in the Department of Education, and lecturer in Physics at University of KwaZulu-Natal. He was a past examiner and moderator of matriculation Physical Science papers and is currently one of the two Umalusi external moderators for the NSC Physics exams set by the DBE, IEB and SACAI examining bodies. He has co-authored the Mastering Physical Science Grade 12 textbook, and is the co-author of physics textbooks designed for the Cameroon and Nigerian high schools. His fields of expertise includes Physics Education, Cosmology and General Relativity.



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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.

Programme fee:

The programme fee of R 9 400 (incl VAT) covers tuition, instruction material and refreshments

NQF Level:

Level Five on the National Qualifications Framework (NQF)

Duration:

3 Weeks

Dates:

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

Contact:

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