



Dept. of Civil Engineering | Masters module | CPD course

# Foundation Design

5 – 9 May 2025



# Introduction



## The Master's Programme

The Master's Programme with a specialisation in Geotechnical Engineering is intended to support high level training and enhance both the technical skills of recent graduates or experienced personnel who work in, or aspire to a career in civil engineering construction, consulting, environmental and related industries. The primary purpose of the programme is to provide advanced conceptual understanding, detailed factual geotechnical knowledge and specialist technical skills appropriate for postgraduates who wish to widen their professional scope and work towards a career in the field of geotechnical engineering. For further information about this master's programme

please visit the website: [Geotechnical Engineering | Civil Engineering](#)

## Continuing Professional Development

Modules of this master's programme are offered to Continuing Professional Development delegates. Five individual block release modules are offered in 2025. Continuing Professional Development students may take each module as a separate certificate course. CPD students are required to attend the lectures but are not required to submit assignments or write the exam.

# Who Should Attend

The courses are best suited for Civil Engineers, Consultants, Architects, Engineering Geologists, Geotechnical Engineers and Geologists, Bridge Engineers, Landscape Architects, Contractors, Soil Scientists, Project managers, City and Public Works Officials, City Planners, and other design professionals who address construction related issues.

# Format

Each module is structured in the following way: a week of intensive contact time at UCT, comprising formal lectures, class assignments and seminars/tutorials.

Please note: these courses are currently planned to be presented face-to-face over 5 days but may be attended online for those who cannot attend in person.

# Course Content

This course aims to furnish participants with the necessary knowledge and design skills required to ensure stability of both the ground, and any structure built in or on the ground. It will introduce participants to the application of theories of soil mechanics, applied mathematics and physics to provide solutions to the serviceability and ultimate limit states of geotechnical structures. Topics include review of soil mechanics; working stress approach, limit state design; analysis and design of shallow and deep foundations; determination of settlement of structures; use of foundation design standards such as Eurocodes, SANS 10160; etc

# Course Convenor



**Prof Denis Kalumba** is a prominent figure in geotechnical engineering. He currently leads the University of Cape Town's (UCT) Geotechnical Engineering Division within the Civil Engineering department of the Faculty of Engineering & the Built Environment. Professor Kalumba's expertise is grounded in his PhD from the University of Newcastle upon Tyne. His leadership extends beyond UCT, this is evident by his active involvement in prestigious organizations like the International Society for Soil Mechanics and Geotechnical Engineering and the Institution of Civil Engineers (ICE).

# Overview

<b>Course Dates</b>	5 – 9 May 2025
<b>Delivery format</b>	PG Seminar Room, NEB, Upper Campus, University of Cape Town <b>or</b> online
<b>CPD</b>	5 CPD points, ECSA registration number: <i>UCTGTEFDN25</i>
<b>Fees</b>	Standard fee: R17 300 UCT student fee: R8 650
<b>Geotechnical engineering CPD courses 2025</b>	Laboratory and Field Techniques CIV5110Z: 24 – 28 Feb Foundation Design CIV5114Z: 5 – 9 May Ground Improvement Techniques CIV5111Z: 4 – 8 Aug Soil Modelling and Numerical Methods CIV5150Z: 7 – 11 Jul Groundwater CIV5153Z: 29 Sep – 3 Oct

# Registration

## Registration and Cancellation

- [Register for this course](#)
- Registration covers attendance of all sessions of the course and course material.
- Registrations close one week before the start of the course. Confirmation of registration will be sent on receipt of a registration form.
- **Cancellations must be received one week before the start of a course, or the full course fee will be charged.**
- For more information on application and registration procedures, please visit our website: [www.cpd.uct.ac.za](http://www.cpd.uct.ac.za)

## Certificates and CPD Points

A digital certificate of attendance will be awarded to CPD participants. Participants need to attend 80% of the lectures to qualify for an attendance certificate. For further information on digital certificates please visit [Digital Certificates at UCT](#)

According to guidelines set out by the Engineering Council of South Africa, attendance of this course will earn participants 5 points towards Category 1 (Developmental Activities). The ECSA validation number for this course is *UCTGTEFDN25*.

Please note: If you are interested in attending this course for credit purposes, you will need to register for the Master's Programme or as an occasional student. If you attend the course as a CPD participant, credit cannot be claimed in retrospect.

## Contact details

For more information or details on CPD courses, visit our website or contact us.

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**Web:** <http://www.cpd.uct.ac.za>

**E-mail:** [ebe-cpd@uct.ac.za](mailto:ebe-cpd@uct.ac.za)

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