FACULTY OF
ENGINEERING &
THE BUILT ENVIRONMENT

CPD
CONTINUING PROFESSIONAL DEVELOPMENT

Dept. of Civil Engineering | CPD Courses

Advanced Soil Mechanics

3 – 7 August 2026

UNIVERSITY OF CAPE TOWN
IYUNIVESITHI YASEKAPA • UNIVERSITEIT VAN KAAPSTAD

Introduction

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: http://www.civil.uct.ac.za/msc-engineering-specialising-geotechnical-engineering

Continuing Professional Development

Modules of this master's programme are offered to Continuing Professional Development delegates as 4 separate certificate courses from which a participant can obtain CPD credits. All the courses consist of 5 days of formal lectures at the University of Cape Town.

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

The courses will be presented in a hybrid format (online and face-to-face). Online course participants will need computer access and a reliable internet connection.

GEOTECHNICAL ENGINEERING
UNIVERSITY OF CAPE TOWN

Course content

This course aims to provide extensive insight and depth to students' understanding of the theoretical background involved in the design of geotechnical systems in order to facilitate critical thinking in geotechnical analyses. It covers advanced concepts and theories in soil mechanics fundamental to geotechnical engineering such as; shear strength of soils; stress-strain behaviour; drained and undrained shear strength; stress paths; critical state soil mechanics, failure criteria; constitutive models soil deformation analysis; stress distribution in soil; settlement of soil; and consolidation theory.

Course Convenor

Professor Denis Kalumba is a distinguished geotechnical engineer that serves as director of the department Geotechnical Engineering Division and champion social responsibility efforts within the Civil Engineering department of UCT's Faculty of Engineering & the Built Environment. Professor Kalumba's qualifications, including a PhD from the University of Newcastle upon Tyne, showcase his deep knowledge of the field. Prof's active membership and affiliations to numerous organizations, like the International Society for Soil Mechanics and Geotechnical Engineering and Institution of Civil Engineers (ICE), further highlights his standing as a respected leader in the field of geotechnical engineering.

Overview

Course Dates	Advanced Soil Mechanics: 3 – 7 August 2026
Delivery format	University of Cape Town **or** online
CPD	5 CPD points, ECSA registration number: *UCTGTEASM26*
Fees	Standard fee: R18 100 UCT student fee: R9 050
Geotechnical engineering CPD courses 2026	Rock Mechanics CIV5143Z: 23 – 27 Feb Slope Stability and Lateral Earth Support CIV5149Z: 1 – 5 Jun Geosynthetics Engineering CIV5124Z: 6 – 10 Jul Advanced Soil Mechanics CIV5122Z: 3 – 7 Aug Tailings Storage Facility Design, Construction and Management CIV5162Z: 28 Sep – 2 Oct

Registration

Registration and Cancellation

- Register for this course
- Registration covers attendance of all course sessions and the electronic copies of the course notes.
- Registrations close one week before the start of the course. Confirmation of acceptance 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/cpd/registration-policies

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. CPD participants can also request a formal university transcript, which will show this course as part of a Professional Development Career. The ECSA validation number for this course is UCTGTEASM26

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.
For further information about the master's programme, please contact denis.kalumba@uct.ac.za
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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