

# SHORT COURSE: PAVEMENT MATERIALS II: ASPHALT

DEPARTMENT OF CIVIL ENGINEERING • 15 - 19 MAY 2023

**HYBRID COURSE**

## COURSE COORDINATOR

Prof Kim Jenkins  
(SANRAL Chair)

## CO-PRESENTER:

Prof. Martin van de Ven (TUD)  
Dr. Elaine Goosen (SU)

## FEES:

Face-to-face / Online  
R 10 250.00

**ECSA CPD POINTS**  
5 points

## LANGUAGE

The course will be presented  
in English.

## CONTACT

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021 808 4131  
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## GOALS OF THE COURSE

This course focuses on important developments in the field of asphalt technology. Rheology will be explained and binder tests will be reviewed. Feedback will be given from International Conferences. The latest South African approach to asphalt technology will also be reviewed.

Asphalt mix design will be explored with attention to the factors that control the behavior and performance of asphalt mixes including resistance to fatigue, crack growth, permanent deformation and durability. The Bailey Mix Design Method will be used.

Case studies will focus on recent, local and international development, relative to southern African context. In particular, EME, UTFCC, Rolled-in-chips and HiMA in use in SA, will be discussed.

## LEARNING PROCESS

The delegates will have the opportunity to immerse themselves in the subject matter, through a series of lectures that will be augmented by workshops. A laboratory session related to mix design of asphalt will be covered. The immersion course concept has been very successful and it has been the format of all recent courses.

## ADMISSION REQUIREMENTS

This course forms part of the University of Stellenbosch postgraduate programme. It carries fifteen (15) SAQA credits for academic purposes and/or continuing education based upon an extensive exercise.

Certificates will be awarded to all non-students participating satisfactorily in the course.

## COURSE ARRANGEMENTS

The course will be blended (presented face-to-face and on-line). Course will start at 08h00/08h30 on 15 May 2023

The fee covers all course materials and meals.

## COURSE OUTLINE

- Module 1 - Bitumen Binders
- Module 2 - Bituminous Mixes
- Module 3 - Asphalt Mix Design
- Module 4 - Mix Properties
- Module 5 - Special Considerations & High Performance Mixes

**Face-2-Face/Online: REGISTER HERE**

*Link to follow*

*Lectures will take on a VIRTUAL platform at Civil Engineering, Stellenbosch University*

**PLEASE READ THE T's & C's**

Payments due: **12 MAY 2023**

**PAYMENT CONFIRMS REGISTRATION**



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