



SHORT COURSE: ADVANCED BITUMEN TECHNOLOGY

DEPARTMENT OF CIVIL ENGINEERING • 11 - 15 SEPTEMBER 2023



COURSE COORDINATOR

Prof Kim Jenkins
(SANRAL Chair)

CO-PRESENTER:

Prof. Martin van de Ven (TUD)
Dr. Elaine Goosen (SU)
Mr. Steph Bredehann (Naidu)

FEES:

Face-to-face / Online
R 10 250.00

ECSA CPD POINTS
5 points

LANGUAGE

The course will be presented
in English.

CONTACT

Ms. Tsholofelo Seroalo
021 808 4131
civilcourses@sun.ac.za

GOALS OF THE COURSE

This course focuses on important applications and developments in the field of bituminous binders. It includes bond and tack coats, emulsions, seal binders, asphalt binders, modified binders as well as alternative binders e.g. bio-binders, amongst others.

Rheology of binders and appropriate test methods will be explained and modelled. Workshop sessions will be used for both empirical and fundamental testing to demonstrate the binder characteristics, behaviour and performance in the Bitumen Laboratory, PGRL. The link between binder parameters, their influence of binder ageing and their performance will be covered.

The evolution of binder classification and recent developments of Performance Grading PG Binders, leads into SA Specifications, which will be tackled.

Recent international developments in binder technology, mastics, modifiers, bio-fuels will be shared, covering production to design and application. Site visit at a special facility is on the cards.

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. Laboratory session including Penetration, Softening Point, DSR, BBR and binder recovery, will be covered. The course concept of immersion and group work, is a very successful format of all attendants.

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.



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COURSE ARRANGEMENTS

The course will be blended (presented face-to-face and on-line).

Course will start at 08h00/08h30 on 11 September 2023

The fee covers all course materials and meals.

COURSE OUTLINE

- Module 1 - Bitumen Origin & Basics
- Module 2 - Rheology and Test Methods
- Module 3 - Binder Parameters & Models
- Module 4 - Ageing and Durability
- Module 5 - PG Binder Specifications and International Developments



REGISTER LINK TO FOLLOW

(USE BELOW FORM FOR REGISTRATION)

PLEASE READ THE T's & C's

Payments due: **04 SEPTEMBER 2023**

PAYMENT CONFIRMS REGISTRATION

ADVANCED BITUMEN TECHNOLOGY



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INDUSTRY CANDIDATE

11—18 SEPT. 2023

Short Course: R10 250

Please complete and return asap.

Title		Surname		Name	
Student No.				Meals (yes or no)	
Company	(if company needs to be invoiced)				
Invoice for Attention					
Address					
Tel			Applicant E-mail		
Cell			Special dietary requirements		
Face-To-face			Online		

Please return registration form to: civilcourses@sun.ac.za

SIGNATURE: _____

DATE: _____