

## PRESENTS

An intensive residential course on

# GEOMETRIC ROAD DESIGN

05 – 09 November 2018

PRESENTED BY:

*Dr Louis DV Roodt*

**Registration deadline  
28 October 2018**

## GOALS OF THIS COURSE

- To provide a thorough understanding of the concepts and methodologies involved in the geometric design of roads.
- To provide an understanding of the role of standards, guidelines and manuals.
- To understand the safety impacts of road design.

## LANGUAGE

This course will be conducted in English.

## ACADEMIC CREDIT

This course forms part of the Stellenbosch University postgraduate programme. It carries fifteen (15) SAQA credits for academic purposes based upon an extensive exercise and written examination. Certificates of attendance will be awarded to all delegates participating satisfactorily in the course. **CPD credits = 4.5**

## COURSE ARRANGEMENTS

The course will be held over 4.5 days in a fully equipped auditorium, S202, in the Department of Civil Engineering, Stellenbosch University.

Participants are responsible for their own travel and accommodation arrangements. Information on local guesthouses is available, on request, from the course secretary.

## ENQUIRIES

**Enrolment will be limited.** Registration, with payment, will be accepted on a first-received basis. There is an online registration process. Link will be forwarded / posted asap.

**Contact:** [civilcourses@sun.ac.za](mailto:civilcourses@sun.ac.za)

**Janine / Tsholofelo**

Tel: 021-8082080

Should you have academic / course content queries, please contact: Dr Louis Roodt: [ldvroodt@sun.ac.za](mailto:ldvroodt@sun.ac.za)

## COURSE OUTLINE

### INTRODUCTION

- Traffic volumes
- Design speed
- Capacity and level of service
- Standards, guidelines and manuals

### BASIC CRITERIA

- The design vehicle
- The driver and human factors in design
- Skid resistance
- Sight distance

### HORIZONTAL ALIGNMENT

- Curves and tangents
- Super-elevation

### VERTICAL ALIGNMENT

- Curvature and gradients
- Climbing lanes and speed profiles

### CROSS-SECTIONAL ELEMENTS

- Lanes and shoulders
- Medians
- Barriers and side slopes
- Verges, roadside and street furniture

### THREE-DIMENSIONAL DESIGN

### INTERSECTIONS

### INTERCHANGES

### INTERNATIONAL DESIGN POLICIES

### SAFETY IN DESIGN



UNIVERSITEIT  
iYUNIVESITHI  
STELLENBOSCH  
UNIVERSITY



**REGISTRATION DETAILS**

Please complete and return to [civilcourses@sun.ac.za](mailto:civilcourses@sun.ac.za) to book a place

**GEOMETRIC ROAD DESIGN**

05 – 09 November 2018

**Course fees: R10 000.00**

***US Part-time PG students: fees will be communicated***

**Personal details:**

First Name and Surname: .....

Position: .....

Company: .....

Student number (if applicable): .....

**Contact details:**

Work.....

Cell No:..... Email.....

Please address / e-mail invoice to: .....

For attention: .....

**Dietary preferences: All food is Halaal**

**Vegetarian**

**Vegan**

**Registration deadline: 28 October 2018**

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