

SHORT COURSE: PAVEMENT MANAGEMENT SYSTEMS

DEPARTMENT OF CIVIL ENGINEERING • 11 - 15 July 2022

COURSE COORDINATOR

Prof KJ Jenkins
SANRAL Chair
Stellenbosch University

CO-PRESENTER:

Mr Gerrie van Zyl
MyCube Asset Management
Systems

FEES

5-day course
R 10 800.00 (Contact)
R 9500.00 (Online)

ECOSA CPD POINTS

5 points

LANGUAGE

The course will be presented
in English.

PROGRAMME

Detailed timetable will be
sent to registered delegates

CONTACT

Janine Myburgh
021 808 2080
civilcourses@sun.ac.za

GOALS OF THE COURSE

This course focuses on pavement management of surfaced and gravel roads. South Africa has some 150 000 kms of surfaced roads and 600 000 kms of unsurfaced roads. It is therefore imperative that sound management principles are applied to this network, differentiating between the respective authorities' appropriate requirements.

The PMS course is aimed at enabling engineers, technologists and senior technicians to:

- Implement a pavement management system in their roads infrastructure system or to contribute to this outcome and
- Upgrade their knowledge of PMS with the latest developments in available technologies.

COURSE OUTLINE

Module 1 - The Pavement Management Process
Module 2 - Pavement Condition Surveys
Module 3 - Analysis
Module 4 - PMS Operation
Module 5 - PMS Trends and Project Presentations

LEARNING PROCESSES

The delegates will have the opportunity to immerse themselves in the subject matter, through a series of lectures that will be augmented by virtual workshops and tutorials

Comprehensive notes will be provided

COURSE ARRANGEMENTS

This course will be presented in hybrid mode - in person and online, using MS TEAMS. Details will be forwarded to registered delegates once payment has been received.



REGISTER for Face-to-Face course

REGISTER for Online course

PLEASE READ THE T's & C's

REGISTRATIONS

Registrations close on
1 July 2022; payments due: **6 July 2022.**

Payment confirms registration.

PAVEMENT MANAGEMENT SYSTEMS

Course Content

MODULE	SUBJECT MATTER
Module 1	<p>THE PAVEMENT MANAGEMENT PROCESS:</p> <ul style="list-style-type: none"> Principles of Integrated Road Management PMS as part of Integrated Road Management (TMH22) Interdependency of Road Management sub-systems Building blocks of a PMS <p>Practical: Structuring of a PMS in a road authority</p>
Module 2	<p>PAVEMENT CONDITION SURVEYS:</p> <ul style="list-style-type: none"> Visual Pavement Assessment (TMH9) Mechanical Surveillance (FWD, HSP, etc.) Condition description (VCI, IRI, etc.) <p>Practical: Field Visual Assessment</p>
Module 3	<p>ANALYSIS:</p> <ul style="list-style-type: none"> Identification of Needs and Maintenance Alternatives Deterioration Modelling and Project Prioritisation Economic Analysis and Optimization Analysis Tools (incl. Neural Networks etc.) <p>Practical: Deterioration modelling & demos of PMS's</p>
Module 4	<p>PMS OPERATION:</p> <ul style="list-style-type: none"> Development (incl. HDM4 etc. as background) Implementation Operational Aspects (incl. GPS, GIS, etc.) Communication, Reporting, etc. <p>Practical: Preparation of a multi-year programme with alternative strategies to fit varying budgets</p>
Module 5	<p>PMS TRENDS AND PROJECT PRESENTATIONS:</p> <ul style="list-style-type: none"> Latest trends in PMS and Technology <p>Evaluation: Presentation of developed PMS's by each of the groups.</p>