



Dept. of Civil Engineering | Masters module | CPD course

Public Transport System Design and Management

7 - 11 October 2024







The Master's Programme

The master's programme offers degrees specialising in transport studies, with a specific focus on the planning and management or urban passenger transport systems. The primary aim is to produce graduates from a range of undergraduate disciplines with the necessary knowledge and skills to engage effectively with the challenge of creating affordable, efficient, sustainable, safe, equitable and environmentally sound urban transport systems, and to contribute to the implementation of new and demanding policy directives. Curriculum content is cross-disciplinary in orientation and exposes students to a broad range of the analytical, evaluative, planning and management issues

they are likely to encounter in the field. For further information on the master's programme please see the website: Transport Studies | University of Cape Town (uct.ac.za)

Continuing Professional Development

Modules of this master's programme are offered to Continuing Professional Development delegates. Eight individual block release modules are offered in 2024.

Continuing Professional Development students may take each module as a separate certificate course. CPD students are required to attend the lectures but are not required to submit assignments or write the exam.

Who Should Attend

The programme has been designed to be accessible to people in full-time employment as well as full-time students. Applicants may register for the individual master level courses offered by the programme as Continuing Professional Development students. These students will be awarded a Certificate of Attendance. University credits will not be awarded to these students. Courses are typically attended by consultants or government officials working within the transportation field.

Format

Each module is structured in the following way: a week of intensive contact time at UCT, comprising formal lectures, class assignments and seminars/tutorials.

Please note: these courses are currently planned to be presented face-to-face over 5 days, but it may be necessary to change the format of a course to an online or hybrid format.





Course Content

This course aims to develop an advanced understanding of public passenger transport system design and operations management. Topics include: Public transport system concepts: basic bus and rail system concepts; alternative technologies and operating characteristics. Public transport system design: route network planning; service planning; road and rail right-of-way design and vehicle prioritisation; signalling systems; station and interchange design; demand estimation; passenger capacity analysis. Public transport system operations management: service quality assessment, scheduling and rostering; train movement control systems; reliability, disruption and incident management; performance assessment; ridership measurement. Integrated fare structures: integrated ticketing systems; fare structures; fare setting. System maintenance: asset management; vehicle fleet and rolling stock maintenance and refurbishment.

Course Presenter



Prof. Mark Zuidgeest is the SANRAL Chair of Transport Planning and Engineering in the Department of Civil Engineering at the University of Cape Town. He also serves as the Head of Department. Prof Zuidgeest obtained his master's degree in 1997 from the University of Twente in the Netherlands and, in 2005 he successfully completed his PhD at The Netherlands Research School for Transport, Infrastructure, and Logistics (TRAIL) at the University of Twente. Prof Zuidgeest's research interests primarily revolve around transport in developing countries. He specializes in various areas such as transport modelling, transport-related social exclusion, transport geography, choice modelling, (public) transport network design, location-allocation optimization, walkability assessment, and the impact of climate change on cities and transport systems. Prof Zuidgeest actively participates in the scholarly community; he serves as the co-Editor in Chief for the Journal of Transport Geography, the deputy-Editor in Chief of African Transport Studies and is an associate editor for the Journal of the South African Institution of Civil Engineering (SAICE).





Overview

Course	Public Transport System Design and Management, CIV5071Z	
Duration	7 – 11 October 2024	
Venue	PG Seminar Room, NEB, Upper Campus, University of Cape Town or online	
CPD	5 CPD points, ECSA registration number: <i>UCTTSPPTSD24</i>	
Fees	Standard fee: R16 500 (5-day course)* UCT student fee: R8 250	
Transport CPD courses	Transport Modelling: 5 - 9 Feb 2024 Transport Demand Analysis and Project Assessment: 8 – 12 Apr 2024 Integrated Land Use-Transport Planning: 20 – 24 May 2024 Non-Motorised Transportation: 3 - 7 Jun 2024 Management of Transport Supply and Demand: 2 – 6 Sep 2024 Public Transport System Design and Management: 7 – 11 Oct 2024 Big Data Analytics and Transport: 21 – 25 Oct 2024 Public Transport Policy and Regulation: 18 - 22 Nov 2024	

^{*10%} discount will apply if the course is attended online (only if available online)



Registration

Registration and Cancellation

- Register for this course
- Registration covers attendance of all sessions of the course and course material.
- Registrations close one week before the start of the course. Confirmation of registration 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

Certificates and CPD Points

A certificate of attendance will be awarded to CPD participants. Participants need to attend 80% of the lectures to qualify for an attendance certificate.

CPD participants can also request a formal university transcript, which will show this course as part of a Professional Development Career.

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. 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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