

CPD Programme in Transport Studies

Modules from a Masters Programme offered to CPD students

The Centre for Transport Studies offers courses aimed at equipping transport planning practitioners to confront the challenge of creating, efficient, equitable, sustainable, affordable and safe urban transport systems in South Africa.

Eight individual block release modules are offered in 2018. 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.

CPD COURSES:

Transport Modelling (CIV5133Z): 29 Jan – 2 Feb 2018

This course aims to develop an advanced understanding of principles and skills in working with these models. Topics include: transport modelling types and scales, theory of travel demand modelling, including the four-step transport model (i.e. trip generation, trip distribution, mode choice and traffic assignment), output analysis, land use – transport interaction models, as well as theory of traffic flow dynamics, including capacity assessment, LOS assessment, shockwave analysis, dynamic traffic management and elementary traffic control design. The course ends with a discussion about the link between models and the analytical questions raised by different policy environments.

Convenor: A/Prof Mark Zuidgeest

5 CPD points, ECSA registration number: UCTTSP118

Non-Motorised Transportation (END5039Z): 9 – 13 April 2018

This course aims to develop an advanced understanding of planning and design of non-motorised transportation infrastructure. Topics include: current SA realities and the importance of NMT travel modes; planning frameworks for NMT infrastructure improvements and network management; methods of site and network analysis, and approaches to modelling and simulation; footway and pathway design; the design of pedestrian precincts, low cost bicycle supply and promotion; cycleway and bicycle parking design and pedestrian and bicycle crossing facilities.

Convenor: A/Prof Marianne Vanderschuren

5 CPD points, ECSA registration number: UCTTSP218

Discrete Choice Modelling and Stated Choice Survey Design (CIV5127W): 16 – 20 April 2018

This course studies the specification, estimation and application of discrete choice models as well as the design of stated choice experiments. Introduction to choice modelling and multi-nomial logit, data and estimation, analysis of results and specification testing, estimation of logit models. Nested logit and other GEV models, estimation of GEV models, latent class, mixed logit and simulation based estimation, estimation of latent class and mixed logit. Model applications: sampling, forecasting and appraisal, model fitting, alternative models and examples, case studies in South Africa. Stated choice surveys, generating a design, drawbacks of orthogonal designs. Efficient designs, generating efficient designs, case studies in South Africa.

Convenor: A/Prof Mark Zuidgeest

5 CPD points, ECSA registration number: UCTTSP318

Integrated Land Use-Transport Planning (END5038): 7 – 11 May 2018

This course aims to develop an advanced understanding of the integration of land use planning and transport planning process. Topics include: theoretical perspectives on the relationship between transport systems and urban activity systems, co-evolution of transport systems and urban form, sustainable transport and the problem of 'automobile dependent' cities, planning paradigms and rationales for public intervention into land use and transport systems, legislative, institutional and financial frameworks for land use and transport planning in South Africa, conceptual framing and practical application of approaches to integrated land use-transport planning in the South African context and local and international case studies and experiences.

Convenor: A/Prof Roger Behrens

5 CPD points, ECSA registration number: UCTTSP418

Transport Demand Analysis and Project Assessment (CIV5132Z): 11 – 15 June 2018

This course aims to develop an understanding of transport demand analysis and project assessment. Topics include: travel data collection and survey design, data processing and analysis, the link between methodological approaches to transport analysis and the analytical questions raised by different policy environments, theoretical and philosophical backgrounds of assessment and evaluation methods, and techniques for the assessment and evaluation of urban transport proposals.

Convenor: A/Prof Marianne Vanderschuren
5 CPD points, ECSA registration number: UCTTSP518

Management of Transport Supply and Demand (CIV5035Z): 13 – 17 August 2018

This course aims to develop an advanced understanding of transport systems management. Topics include: the rationale for the management of transport systems through alternatives to large scale infrastructure provision, transport impact assessment and access management as a means of managing the impacts of new land use development on transport systems, road space management as a means of prioritising public transport vehicles, 'transport system management' as a means of managing transport supply; 'travel demand management' as a means of managing travel behaviour; and the use of 'intelligent transport systems' in supply and demand management.

Convenor: A/Prof Roger Behrens
5 CPD points, ECSA registration number: UCTTSP618

Public Transport System Design and Operations Management (CIV5071Z): 8 – 12 October 2018

This course aims to develop an advanced understanding of public passenger transport system design and operations management. Topics include: public transport system concepts, public transport system design, public transport system operations management, integrated fare structures and system maintenance.

Convenor: A/Prof Mark Zuidgeest
5 CPD points, ECSA registration number: UCTTSP718

Public Transport Policy and Regulation (CIV5070Z): 19 – 23 November 2018

This course aims to develop an advanced understanding of public passenger transport system policy analysis and regulation. Topics include: legislative and planning frameworks, public transport policy, paratransit reform, public transport system regulation and competition and quality of service.

Convenor: A/Prof Roger Behrens
5 CPD points, ECSA registration number: UCTTSP818

COURSE INFORMATION

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.

Cost

The CPD fee for each module is R11 600. This fee includes a comprehensive set of course notes.

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 Masters Programme or as an occasional student. If you attend the course as a CPD participant, credit cannot be claimed in retrospect.

Venue

Seminar room 3.01, New Engineering Building, Ring Road, Upper Campus, University of Cape Town.

Registration and Cancellation

Registration forms are available on the website www.cpd.uct.ac.za/cpd/applications

In order to ensure a place on the course applicants must complete and return a signed registration form to the course administrators: Heidi Tait or Sandra Jemaar: email ebe-cpd@uct.ac.za, tel 021 6505793

Confirmation of acceptance will be sent on receipt of a registration form.

Registrations close one week before the start of each course

Cancellations must be received one week before the start of a course, or the full course fee will be charged.