

Multimodal Transport - Planning, Operations and Evaluation

Presented by the Department of
Civil Engineering

5 ECSA CPD Points

Brief description

Urban Transport functions at the nexus of a complex set of spatial, technological, economic, political and social factors. The objectives of the course are to introduce delegates to this broad landscape; and to equip delegates with some technical tools to use during the planning, design, operations and evaluation of urban transport. At the end of the course delegates should be able to understand the role of various modes within the contemporary cities, especially against the backdrop of urbanization, governance and economic challenges; and to apply technical knowledge to help improve mobility outcomes in African cities. The approach is multi-modal, focusing mostly on public transport (rail, bus BRT and informal modes) and the walking and bicycling networks that support them. We cover the major technologies and their limitations, design of networks and operational plans, inter-modal integration, economic evaluation and costing and future trends and opportunities. The geographic scope is explicitly international- we draw on the international literature and guest lecturers to explore worldwide developments, but with an emphasis on what we can apply locally

Course content

- Introduction to the course
- The problem of access in cities
- Links between land use and transport
- Non- motorized transport planning and design
- Public transport modes and technologies
- Bus, rail and informal modes
- International developments in bus transport
- Networks
- Scheduling and Operations
- Practical: Network planning
- Costs, fares and subsidies
- Multimodal integration
- Practical: Operations planning
- Policy in South Africa
- Transformation and dealing with informality
- Public transport and the future



Learning Outcomes

At the end of the course delegates should be able to understand the various modes within contemporary cities, especially against the backdrop of urbanization, governance and economic challenges; and to apply technical knowledge to help improve mobility outcomes in African cities.

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Course delivery mode options

Contact

Venue

Pretoria

Who should enrol?

- Transport planner
- Operations Manager
- Traffic Engineer
- Transit manager
- Customer services representatives
- Transport analyst
- Sustainability manager
- Urban planner

Entry Requirements

Basic spreadsheet (Excel) skills and familiarity with the transport sector issues in developing countries.



Course date

18 - 22 August 2025



Programme fees

R8 280.00 per delegate (VAT incl.)

Course fees include all course material, refreshments and lunch during contact days. Course fees must be paid in full 14 days prior to course start dates. Proof of payment can be submitted to enrolments@enterprises.up.ac.za

Accreditation and certification

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Registration and enquiries

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