

**KORT KURSUSSE IN
OPENBARE VERVOERSISTEME**

**SHORT COURSES ON
PUBLIC TRANSPORT SYSTEMS**

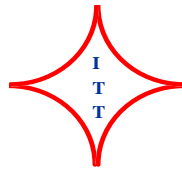
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UNIVERSITY of
STELLENBOSCH



CONTINUING EDUCATION
UNIVERSITY OF PRETORIA



THE INSTITUTE FOR
TRANSPORT TECHNOLOGY

Two-day course in Pretoria, 1 & 2 November 2010

with specific focus on:

- * Planning, design and operation of bus and rail networks
- * Intermodal integration and city livability
- * Theoretical basis and application to RSA cities

Fee: R3 000

Five-day course in Stellenbosch, 8 -12 November 2010

Fee: R6 900

Presenter

PROF VUKAN R VUCHIC

UNIVERSITY OF PENNSYLVANIA

GOALS OF THE COURSES

The two-day course in Pretoria will present a brief, but systematic overview of transit systems: their development and impact on cities; their characteristics and optimal locations. Technical and operational elements of bus and rail transit modes. The basics of transit scheduling, design and operation of transit lines and networks will be described and analyzed. Fares, economic aspects and transit regulation will also be included. The focus will be on transit modes used now or potentially built in RSA. Theoretical aspects will be directly applied to conditions found in RSA cities.

The five-day course is part of the post-graduate programme in Transportation Engineering at the University of Stellenbosch and will provide a thorough understanding of the key issues involved in the planning, design and operation of all public transport systems. This course will cover a similar content as the 2-day course, but in considerably greater details, and with somewhat greater orientation toward systems approach, theoretical analyses, and yet related closely to RSA. In many aspects cases will be described in which RSA cities can learn from the successes, as well as failures which occurred in many industrial countries.

DOEL VAN DIE KURSUSSE

Die twee-dag kursus in Pretoria sal 'n kort, maar stelselmatige oorsig gee van openbare vervoerstelsels: hul ontwikkeling en impak op stede; hul eienskappe en optimale plasing, asook tegniese en bedryfseienskappe van bus- en treinstelsels. Die basiese beginsels van skedulering, ontwerp en bedryf van netwerke sal beskryf en ontleed word. Koste van kaartjies, ekonomiese en regulatoriese aspekte sal ook ingesluit word. Die fokus sal val op openbare vervoermodusse wat tans of potensieel in Suid-Afrika ontplooi sal kan word. Teoretiese aspekte sal direk op Suid-Afrikaanse omstandighede toegepas word.

Die vyf-dag kursus is deel van die nagraadse program in Vervoeringeniërsweese aan die Universiteit van Stellenbosch en sal die belangrikste aspekte ten opsigte van die beplanning, ontwerp en bedryf van alle openbare vervoersisteme oordra. Hierdie kursus sal 'n soortgelyke inhoud as die twee-dag kursus behandel, maar in baie meer detail en met groter klem op 'n sisteemsbenadering, teoretiese ontleding en tog van toepassing in SA. In baie gevalle sal die ondervinding van ander oorsese stede, met hul mislukkings en suksesse beskryf word.

COURSE PRESENTER

Vukan R Vuchic is now Emeritus UPS Foundation Professor of Transportation at the University of Pennsylvania, where he founded the program in Transportation Systems Engineering in 1967. In his "Transit Trilogy" books: *Urban Public Transportation: Systems and Technology*, *Transportation for Livable Cities* and *Urban Transit Operations, Planning and Economics*, and in more than 150 other publications and monographs, Dr Vuchic integrates theoretical analyses of transportation systems with their practical applications.

He has served as a consultant to scores of companies, public agencies and city governments around the world: Belgrade in his native Serbia; Edmonton and Toronto, Canada; Lima, Peru; Naples and Rome, Italy; Singapore, Moscow and in many U.S. cities, including New York, Philadelphia, San Francisco and Washington.

Professor Vuchic, who is an Extraordinary Professor at the University of Stellenbosch, has lectured at about 85 Universities on all six continents, at professional conferences, and before transit agencies and highway departments.

In 1982, in Munich, Germany, Vukan R. Vuchic became the first recipient of the prestigious "Dr Friedrich Lehner Medal" in honour of his lifelong dedication to the field of urban transportation.

KURSUSAANBIEDER

Vukan R Vuchic is nou die Emeritus UPS Stigting Professor in Vervoerweese aan die Universiteit van Pennsylvania, VSA, waar hy die program in Vervoersistemiesingeniërsweese in 1967 begin het. In sy "Transit Trilogy", die boeke "*Urban Public Transportation: Systems and Technology*,

Transportation for Livable Cities en Urban Transit Operations, Planning and Economics" en in meer as 150 ander publikasies integreer Dr Vuchic teoretiese ontledings van vervoersisteme met die praktiese toepassing daarvan.

Hy was reeds konsultant vir 'n wye verskeidenheid van firmas, openbare agentskappe en munisipaliteite oor die hele wêreld: Belgrado in sy geboorteland Serbia; Edmonton en Toronto, Kanada; Lima, Peru; Napels en Rome, Italië, Singapore, Moskou en in baie stede in die VSA insluitende New York, Philadelphia, San Francisco en Washington.

Prof Vuchic, wat 'n Buitengewone Professor aan die Universiteit van Stellenbosch is, het al lesings gegee by ongeveer 85 universiteite op al ses kontinente, by professionele konferensies, en voor openbare vervoer-agentskappe en padowerhede.

In 1982, in Munchen, Duitsland word Dr Vuchic die eerste ontvanger van die toonaangewende "Dr Friedrich Lehner Medalje" in erkenning van sy lewenslange toewyding aan die vakgebied van stedelike vervoer.

LANGUAGE

The courses will be presented in English.

TAAL

Die kursusse sal in Engels aangebied word.

WHO SHOULD ATTEND?

The courses are aimed at engineers, planners, operators and administrators with a background in public transport who want to familiarise themselves with the latest procedures in the planning, design and operation of public transport systems. Post-graduate students who want to attain academic credits can attend the five-day course.

Both courses are accredited with ECSA/SAICE for Continuing Professional Development (CPD) credit.

BYWONING

Die kursusse is bedoel vir ingenieurs, beplanners, bestuurders en administrateurs met 'n agtergrond in openbare vervoer wat hulself vertrouwd wil maak met die nuutste prosedures in die beplanning, ontwerp en bedryf van openbare vervoersisteme. Nagraadse studente wat akademiese krediete wil verwerf, kan die vyf-dag kursus bywoon.

Beide kursusse is by ECSA/SAISI geakkrediteer vir Voortgesette Professionele Ontwikkeling (VPO) krediete.

COURSE ARRANGEMENTS

Participants will be informed of the exact locations and times of the respective courses. Participants are responsible for their own accommodation, breakfast and dinner. Information on local guesthouses and hotels is available, on request, from the course secretaries.

Participation is on a first received basis. A maximum of fifty participants will be allowed on the five-day course.

The fee covers academic notes, morning and afternoon refreshments and lunch. Participants of the five-day course in Stellenbosch will receive copies of Prof Vuchic's latest book, "Urban Transit: Operations, Planning and Economics". It is included in the cost of the course. Participants of the five-day course will also be able to attend an afternoon seminar on 11 November 2010 where other speakers will join Dr Vuchic in a discussion of the public transport options for South Africa such as Rea Vaya and Gautrain.

KURSUSREËLINGS

Deelnemers sal in kennis gestel word oor die presiese plek en tye van aanbieding. Deelnemers is verantwoordelik vir hul eie verblyf, ontbyt en aandete. Inligting oor plaaslike gastehuse en hotelle sal, op aanvraag, by die kursussekretaresses beskikbaar wees.

Deelnemers wat eerste aansoek doen sal eerste aanvaar word. 'n Maksimum van 50 deelnemers sal op die vyf-dag kursus toegelaat word.

Die inskrywingsfooi dek akademiese notas, oggend en namiddagverversings en middagete. Deelnemers aan die vyf-dag kursus in Stellenbosch sal kopieë van Dr Vuchic se nuutste boek - "Urban Transit: Operations, Planning and Economics" kry. Dit is ingesluit in die koste van die vyf-dag kursus. Deelnemers aan hierdie kursus sal ook 'n middag-seminaar op 11 November kan bywoon waar ander sprekers saam met Dr Vuchic 'n bespreking sal inlei oor die openbare vervoeropsies vir SA soos Rea Vaya en Gautrein.

COURSE OUTLINE

Two-day course: 1 & 2 November 2010 (Pretoria)

1. Transportation and the development of cities. Definition and characteristics of modes
2. Bus transit: basic, accelerated, BRT: planning, design, implementation
3. Rail transit modes: Tramways, LRT. High-performance rail: Metro, Regional Rail, Gautrain.
4. Public transport lines and networks. Intermodal integration
5. Management and regulation of paratransit modes
6. Fares and transit financing. Transit regulation
7. Cities and transportation: definition of the problems. Definition of "balanced transportation"
8. Policies and measures for achieving the balance.

Five-day course: 8 – 12 October 2010 (Stellenbosch)

1. Role of transportation in the development of cities - a historic review
2. Classification, definition and characteristics of urban transport modes
3. Bus transit system: Vehicles, rights-of-way, terminals, operations. Regular bus, express bus, BRT
4. Light Rail Transit - LRT and metro systems: Vehicles, rights-of-way, stations, operations
5. Regional rail systems
6. Operations and scheduling
7. Paratransit
8. Networks: bus, rail. Trunk lines, branches and feeders. Timed transfer system
9. Transit planning: approach, procedure, four levels and domains, intermodal systems
10. Economic aspects and fare systems
11. Systems analysis and modelling
12. Ownership, organization and regulation of transit
13. Cities and transportation: definition of the problems. Definition of "intermodal-" and "balanced transportation"
14. Policies and measures for achieving the balance. Future cities and transportation.

Enquiries and application forms:

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Private Bag X1

MATIELAND 7602

PRETORIA:

Refilwe Selepe

Tel: 012 420 5425

Fax: 086 638 1715

Email: Refilwe.ce@up.ac.za

Please contact the responsible secretary for application forms or more information.

Reply deadline (for Stellenbosch course)

30 September 2010

The deadline is necessary for the ordering of the books, however LATE APPLICATIONS WILL BE ACCEPTED, but delegates may then only receive their books after the courses.



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**REGISTRATION DETAILS
SHORT COURSE ON
PUBLIC TRANSPORT SYSTEMS**

8 – 12 November 2010

First Name and Surname:

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Occupation:

.....

Employer:

.....

Postal Address (of company - for invoicing):

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Contact person (for invoicing)

Telephone:.....

Personal:

Telephone: (Work).....

Fax.....

Cell No:.....

Email.....

Student no. (if applicable):

Any meal preferences:.....

COURSE FEES

Five-day course (Stellenbosch): R6 900

Reply deadline: 30 September 2010