

# UTM509 Public Transport Management

**Level:** 5

**Credit Units:** 5 Credit Units

**Language:** ENGLISH

**Presentation Pattern:** EVERY JULY

## **Synopsis:**

Public transport is an essential public service and is necessary for cities to function. It is an operational and institutional concept related to the movement of large numbers of people between relatively fixed locations. This course provides an understanding of the strategic role and importance of public transport among cities. The course focuses on methodologies for vehicle and personnel scheduling, methods of evaluating public transport lines and networks, system management and regulation, and the entire planning process, including travel demand forecasting as well as comparison and selection of transport modes.

## **Topics:**

- Public transport and the evolution of cities
- Public transport systems and technologies
- Institutional and organizational framework
- Estimating public transport ridership
- Network planning and integration
- Bus service management and operations
- Rail service management and operations
- Paratransit services
- Pricing and fare policies
- System performance and benchmarking
- Case studies

## **Textbooks:**

Vukan R. Vuchic: Urban Transit: Planning, Operations and Economics 2005 Wiley Press  
ISBN-13: 9781119488897-AA

by Jarrett Walker: Human Transit: How Clearer Thinking about Public Transit Can Enrich Our Communities and Our Lives  
ISBN-13: 9781597269728

by Jarrett Walker: Human Transit: How Clearer Thinking about Public Transit Can Enrich Our Communities and Our Lives  
ISBN-13: 9781597269728-AA

Vukan R. Vuchic: Urban Transit: Planning, Operations and Economics 2005 Wiley Press  
ISBN-13: 9781119488897

**Learning Outcome:**

- Analyse the development of public transport and the evolution of cities
- Examine the various classifications of public transport and related technologies
- Criticise the different approaches to estimating public transport demand
- Evaluate the performance of bus and rail services using key service indicators
- Formulate new public transport plans to improve urban mobility
- Estimate public transport ridership
- Propose an improvement of bus and rail service management and operations
- Inspect Pricing and fare policies

**Assessment Strategies:**

<b>Continuous Assessment Component</b>	<b>Weightage (%)</b>
TUTOR-MARKED ASSIGNMENT	20
TUTOR-MARKED ASSIGNMENT	30
<b>Sub-Total</b>	<b>50</b>

<b>Examinable Component</b>	<b>Weightage (%)</b>
Written Exam	50
<b>Sub-Total</b>	<b>50</b>

**Weightage Total** **100**