

# Webct guide for iPad



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**Course Tools**

**Course Content**

- Klas Aanbiedings / C...
- Chapter 1x
- Chapter 2x
- Chapter 3x
- Chapter 4x
- Chapter 5
- Chapter 6
- Chapter 7
- Chapter 8
- Chapter 9
- Chapter 10
- Chapter 11
- Chapter 12
- Kursusraamwerk 20...
- Course Framework 20...
- Voorlopie Pred Prell...
- Discussions
- Web Links

**Transport Economics 244**  
**Elements of Urban Transport Systems**

**What is transport economics? It is not just a way to make money and transport. It is a way to make money and transport. It is a way to make money and transport. It is a way to make money and transport.**

**Urban transport systems are complex systems that involve a variety of modes of transport, including road, rail, air, and sea. They are also influenced by a variety of factors, including population, land use, and infrastructure.**

**Transport economics is the study of the economic aspects of transport. It is a branch of economics that deals with the allocation of resources to transport and the determination of the most efficient way to provide transport services.**

**Transport economics is a multidisciplinary field that draws on a variety of disciplines, including economics, engineering, and urban planning. It is a field that is constantly evolving as new technologies and modes of transport emerge.**

**Transport economics is a field that is essential for the development of sustainable transport systems. It is a field that is essential for the development of sustainable transport systems. It is a field that is essential for the development of sustainable transport systems.**

**Elements of Urban Transport Systems**

**A number of cities in the world are being "transformed" by quality traffic planning, reflective and participatory public transport systems, independent public functions, urban planning, etc.**

**There are a number of factors that decrease potential for interaction between transport modes and longer the time.**

**Continuity, accessibility, and good accessibility issues are essential for the success of a transport system.**

**The goal of urban transport economics is to address this multifaceted and efficiency.**

**Integrated development theory proposed Transport Economics as a way to address the multifaceted and efficiency.**

**NO element of urban growth in the transport system being (transportation).**

**GA aims for a Rail and "BRT"**



Then select the open in iBook's option

The screenshot shows an iPad browser interface. At the top, the status bar displays 'iPad', signal strength, '11:42', and '59%' battery. The address bar shows 'webstudies.sun.ac.za/webct/urw/lc166678663'. Below the address bar is a bookmark bar with items like 'Tweaks PcWinTech', 'http--www...a-readme', 'Inetkey', 'login', 'Suggested Sites', 'Track', and 'ShareFreak'. The main content area displays a PDF document titled 'Chapter%2010.pdf'. At the top right of the PDF viewer, there are two buttons: 'Open in "iBooks"' and 'Open in...'. A large blue arrow points to the 'Open in "iBooks"' button. The PDF content is divided into several sections:

- Chap. 10 The Urban Transport Planning Process**
  - Urban Transport Planning (Chap 10)
    - The 'Urban Transport Planning Process' (UTPS)
      - Developed in the USA, 1950's
      - 'CATS' - Chicago Area Transport Study
    - Probably one of the most important task of transport economist / transport planner
      - The objective of the urban transport planning process is to determine for a city/region
        - # of trips, from where to where, using what transport mode, using what route, and when ...?
          - Need to do this for now (replicate the existing situation) and for the future
            - 5, 10, 15 and 20/25 years ...!
          - More comprehensive than only demand prediction ...

- Chap. 10 The Urban Transport Planning Process**
- Prediction of travel demand is NB to determine **how much** and **what type of infrastructure** is required...
  - For example; Before you can build a new highway, you need to know how much traffic will use the new highway / road / public transport link, etc.
  - Egter in vervoer, onthou die levensduur is lank en vaste koste (en "sunk cost") is geweldig hoog
    - Foutiewe vraagskatting kan lei tot groot wit olifante!
    - Examples ...!!
  - But predicting demand is notoriously difficult ... and requires a lot of data ...!
- Chap. 10 The Urban Transport Planning Process**

UTPS is a sequential process consisting of the following questions ...?

- How many people will undertake a trip ...?
- Where will they go ...?
- What modes will they use...?
- What routes will take ...?

For each of the questions, we use various statistical / mathematical relationships

- Trip Generation = Regression
- Trip Distribution = Gravity
- Node Split = Multinomial Logit
- Trip Assignment = Shortest Path

Link (route) flows by mode

Activity / land use system forecast

```

graph TD
    A[Activity / land use system forecast] --> B[Trip Generation]
    B --> C[Trip Distribution]
    C --> D[Modal Split]
    D --> E[Trip assignment]
    E --> F[Link (route) flows by mode]
    
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Transport system network & performance characteristics
- Chap. 10 The Urban Transport Planning Process**

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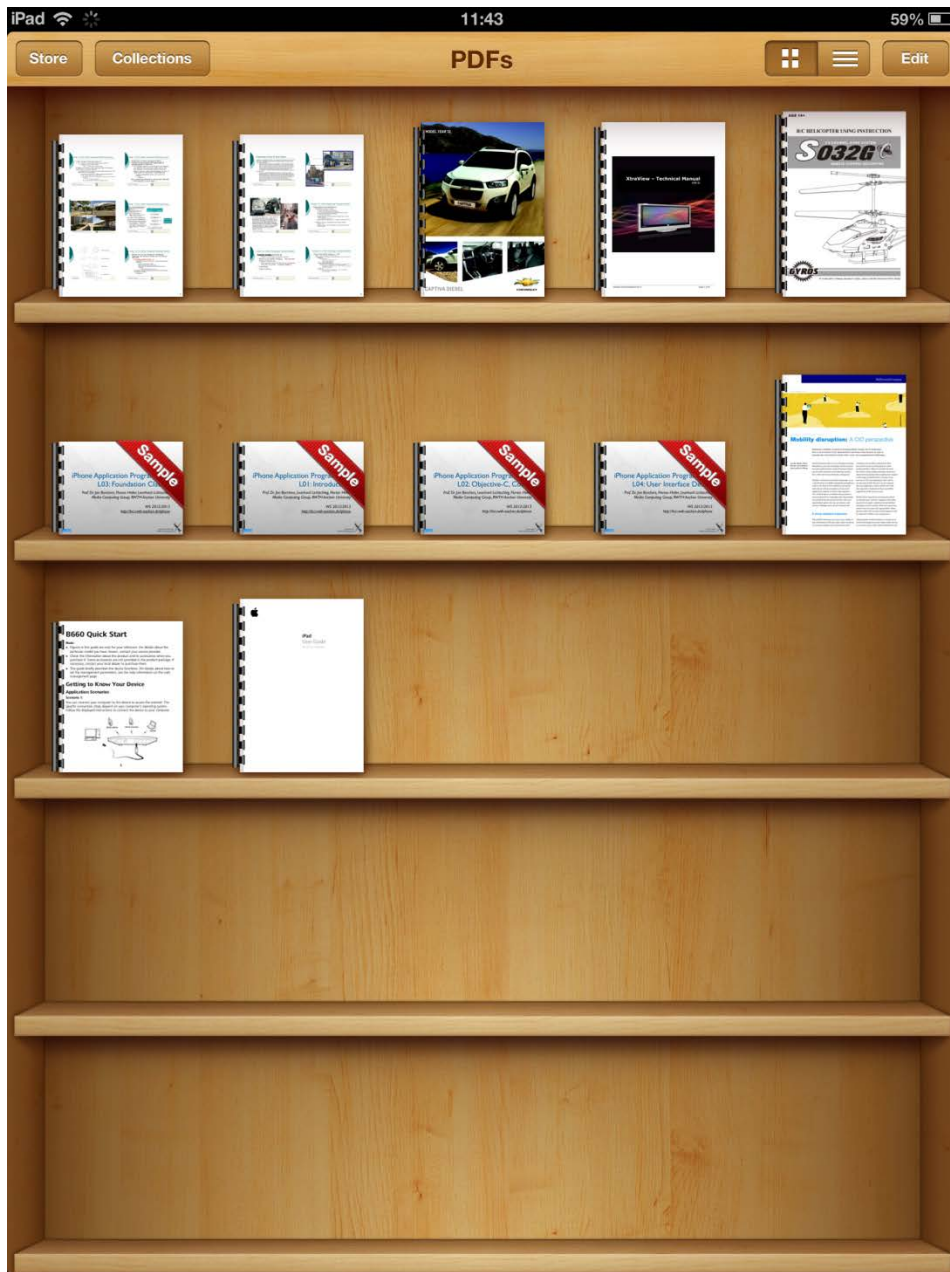
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Library Chapter%2010

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### Chap. 10 The Urban Transport Planning Process


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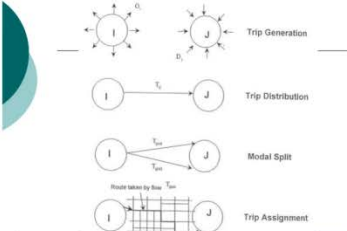
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### Chap. 10 The Urban Transport Planning Process

- Before we can do transport modelling, however, we need to know how the future will look:
  - Preceding STEP (STEP -1)
    - Predict the future land use / urban development patterns ...
      - Where will business locate ...?
      - Where will people live/work etc...?
      - What type of employment opportunities will be available
        - High, medium, low, ITC, etc.
  - To answer these questions we look at Land use / transport models
    - Chapter 2

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1 of 4

1

