Overview

Public Transport is an important education and research area in the UQ School of Civil Engineering. A key objective is developing skilled professionals in public transport, through a program of continuing professional development, which also provides a pathway to a postgraduate qualification.

A UQ Graduate Certificate in Public Transport, comprising a total of 8 units, is now available.

Who should participate?

- Professionals involved in planning, designing and monitoring passenger transport, especially state and local government staff, operators, consultants and contractors
- Professionals new to public transport or wanting a refresher, as well as those wanting a broader understanding of public transport

Course Structure

These courses are presented using best practice adult education, using blended learning, which involves online pre-work, comprising notes, readings and reflection activities, prior to attending intensive live short courses, with presentations, case studies, plenary discussions and group exercises.

Professionals can select professional development courses to suit their needs or they can do all of the courses, enrol at UQ and undertake assessment and obtain credit towards the graduate qualification.

Course Coordinator: Prof Phil Charles

Courses

PUBT6000 Public Transport Introduction
Short courses/CPD:
- Public Transport Context & Overview Part A
- Public Transport Context & Overview Part B

PUBT6020 Public Transport Planning
Short courses/CPD:
- Public Transport Strategy & Planning
- Public Transport Policy & Regulation

PUBT6030 Public Transport Operations
Short courses/CPD:
- Public Transport Network & Service Planning
- Public Transport Operations & Service Delivery

PUBT6040 Public Transport Funding
Short courses/CPD:
- Public Transport Finance
- Public Transport Economics

PUBT6050 Review of Public Transport
Short courses/CPD:
- Public Transport Data Collection & Analysis
- Public Transport Performance Assessment

PUBT6060 Transport Research Methods

PUBT6070 Public Transport Research Project

PUBT6xxx refers to a one unit Grad Cert in Public Transport course.
Short courses/CPD refers to component short courses. On successfully completing the relevant 2 short courses plus an assessment you can apply for credit for the corresponding Grad Cert course.
A maximum of 4 credits may be granted.

More Information
email: ptcpd@uq.edu.au  web: www.civil.uq.edu.au/ptcpd
Public Transport Introduction
Public Transport Context & Overview - Part A
1. Context of Public Transport: Explain the public transport context, including policy, regulatory and institutional frameworks
2. Strategies for Public Transport: Describe the urban transport planning process
3. Demand for Public Transport: Describe the drivers and mechanics that impact upon the economics of public transport
4. Economics of Public Transport: Identify the drivers and mechanics that impact upon the economics of public transport
5. Evaluation of Public Transport Projects: Summarise the basic principles and methodologies used in evaluating public transport projects

Public Transport Context & Overview - Part B
6. Public Transport Modes: Demonstrate the process of identifying, analysing and selecting public transport modes
7. Public Transport Market Perspectives: Identify the factors affecting public transport patronage
8. Business Case for Public Transport: Identify the key elements of a business case for public transport
9. Public Transport Data Collection and Analysis: Summarise public transport data collection and analysis requirements
10. Managing Public Transport Performance: Outline the basic principles and methodologies used in managing public transport performance.

Public Transport Planning
Public Transport Strategy & Planning
1. Strategic Context for Public Transport: Explain the context for public transport planning
2. Stakeholder & Community Engagement: Demonstrate the application of stakeholder and community engagement principles
3. Developing Public Transport Options: Describe and evaluate public transport options
4. Resourcing Public Transport Programs: Outline the resourcing needs and processes for public transport
5. Planning for Public Transport: Be able to plan for public transport infrastructure and services

Public Transport Policy & Regulation
6. Policy, Policy Processes and Policy Analysis: Illustrate the nature of policy and policy processes
7. Public Transport Policy Context: Explain the public transport policy context
8. Public Transport Policy Options: Describe the role and practice of public transport policy and be familiar with key public transport policies
9. Public Transport Organisation and Institutions: Develop the capacity to identify and assess policy options
10. Public Transport Delivery and Regulation: Summarise the options for the delivery of public transport and associated regulatory requirements.

Public Transport Operations
Public Transport Network & Service Planning
1. Overview of Network & Service Planning: Define network and service planning, including the market, planning tasks and planning approaches
2. Urban Passenger Transport Modes: Demonstrate the process of identifying, analysing and selecting public transport modes
3. Institutional Context: Describe the institutional context in which network and service planning occur, including roles, regulation and funding
4. Network Structure Design: Outline the steps in the network structure design process
5. Methods and Tools for Service Planning: Illustrate the application of a range of methods and tools in service planning

Public Transport Operations & Service Delivery
6. Issues in Public Transport Operations: Critically evaluate public transport operational issues
7. Public Transport Service Delivery Arrangements: Consider service delivery options and contract models
8. Securing Public Transport Contractors: Describe issues associated with securing a public transport contractor
9. Managing Public Transport Contracts: Discuss issues associated with managing public transport contracts
10. Customer Service Needs: Appraise the most appropriate means to meet customer service needs.

Public Transport Funding
Public Transport Finance
1. Funding Public Transport: Explain the current sources and approaches to funding public transport
2. Public Transport Fare Policy: Demonstrate the application of objectives, requirements and constraints in setting fare policy
3. Public Transport Revenue Generating Initiatives: Evaluate public transport revenue generating initiatives
4. Public Transport Cost Reduction Initiatives: Evaluate public transport cost reduction initiatives
5. Public Transport Financial Performance: Illustrate how to measure the financial performance of public transport

Public Transport Economics
7. Transport Investment Appraisal: Demonstrate the application of key concepts of investment decision making to ensure desired transport outcomes
8. Public Transport Appraisal Frameworks: Develop investment proposals to meet requirements in investment appraisal frameworks
9. Public Transport Project Appraisal: Evaluate business cases that consider relevant options and risks
10. Practical Public Transport Business Case Development: Illustrate the development and assessment of business cases that meet current requirements

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3. Demand for Public Transport: Describe the drivers and mechanics that impact upon the economics of public transport
4. Economics of Public Transport: Identify the drivers and mechanics that impact upon the economics of public transport
5. Evaluation of Public Transport Projects: Summarise the basic principles and methodologies used in evaluating public transport projects

Public Transport Context & Overview - Part B
6. Public Transport Modes: Demonstrate the process of identifying, analysing and selecting public transport modes
7. Public Transport Market Perspectives: Identify the factors affecting public transport patronage
8. Business Case for Public Transport: Identify the key elements of a business case for public transport
9. Public Transport Data Collection and Analysis: Summarise public transport data collection and analysis requirements
10. Managing Public Transport Performance: Outline the basic principles and methodologies used in managing public transport performance.

Public Transport Planning
Public Transport Strategy & Planning
1. Strategic Context for Public Transport: Explain the context for public transport planning
2. Stakeholder & Community Engagement: Demonstrate the application of stakeholder and community engagement principles
3. Developing Public Transport Options: Describe and evaluate public transport options
4. Resourcing Public Transport Programs: Outline the resourcing needs and processes for public transport
5. Planning for Public Transport: Be able to plan for public transport infrastructure and services

Public Transport Policy & Regulation
6. Policy, Policy Processes and Policy Analysis: Illustrate the nature of policy and policy processes
7. Public Transport Policy Context: Explain the public transport policy context
8. Public Transport Policy Options: Describe the role and practice of public transport policy and be familiar with key public transport policies
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10. Public Transport Delivery and Regulation: Summarise the options for the delivery of public transport and associated regulatory requirements.
Review of Public Transport

Public Transport Data Collection and Analysis

1. **Public Transport Overview**: Explain performance monitoring and data collection in the context of public transport planning and operations

2. **Measures Public Transport Impacts**: Describe the methods used to measure and report on modal and multi-modal impacts

3. **Public Transport Quality of Service**: Describe the quality and performance of transit service from a passenger’s viewpoint

4. **Public Transport Surveys**: Outline the methods and tools used to survey travel behaviour and customer service

5. **Data Analysis and Reporting**: Explain the relationship between data analysis and internal and external reporting

Public Transport Performance Assessment

6. **Results Focus**: Describe performance monitoring in the context of public transport planning and operations

7. **Performance Management Framework**: Explain the significance of a public transport performance management framework

8. **Stakeholder Coordination and Communication**: Identify stakeholder management and communication best practices

9. **Measure Transport System Performance**: Show how to demonstrate the contribution of public transport towards transport system outcomes

10. **Measure Public Transport Performance**: Identify key measures to assess public transport performance.

Transport Research Methods

**Course Modules**

1. **Research planning**: defining the research question, methodology, research report writing and research ethics

2. **Research methodology**: quantitative and qualitative research approaches

3. **Literature review**: sources, critical reviewing, reporting and referencing sources, (including UQ library skills training)

4. **Data collection and analysis**: data sources, data collection, modelling, basic statistics, analysis and reporting

5. **Research report writing**: format, referencing sources

**Learning Objectives**

1. Design a feasible approach to investigating a specific transport problem or innovation, including defining a research question and research design

2. Demonstrate a basic understanding of qualitative and quantitative research approaches

3. Critically review, analyse and synthesise existing literature on a transport research project and produce a literature review

4. Develop an appropriate research methodology for a transport research project, outlining data collection and analysis, and present in written and spoken form.

Public Transport Project

**Learning Objectives**

1. Review a design of a research approach to investigating a specific public transport problem or innovation, including focussed research questions and objectives

2. Critically review, analyse and synthesise existing literature on a public transport research project and produce a literature review

3. Conduct a public transport research project, including data collection and analysis

4. Write a comprehensive and well structured report describing the process and outcomes of research.