

Module Specification

Transport Economics and Appraisal

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Part 1: Information

Module title: Transport Economics and Appraisal

Module code: UBGM8M-15-M

Level: Level 7

For implementation from: 2023-24

UWE credit rating: 15

ECTS credit rating: 7.5

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Faculty: Faculty of Environment & Technology

Department: FET Dept of Geography & Envrnmental Mgmt

Partner institutions: None

Field: Geography and Environmental Management

Module type: Module

Pre-requisites: None

Excluded combinations: None

Co-requisites: None

Continuing professional development: No

Professional, statutory or regulatory body requirements: None

Part 2: Description

Overview: The module will begin with the basic economic concepts, focussing on how these underpin cost benefit analysis (CBA) and other forms of transport appraisal. The latter part of the module will focus on transport appraisal principles, enabling the students to apply those principles following current UK practice.

Features: Not applicable

Educational aims: The purpose of the module is to develop an understanding of economic concepts as applied to transport and competence in applying appraisal techniques as they are used in the transport sector in the UK.

The module will enable students to recognise the neoclassical assumptions underlying mainstream economics and current appraisal practice, to reflect on their implications and critique them. It will also enable them to critically evaluate alternative concepts of sustainability and their application to transport economics.

Outline syllabus: As no prior knowledge of economics is required, the module will begin by introducing students to the basic concepts of economics, such as supply and demand, market structures and elasticities, applying them to transport markets, travel behaviour and investment decisions. The particularities of economics as applied to transport (e.g. the importance of the 'consumption' of time) will be stressed at each stage.

The economics of sustainability will be introduced, starting with the contested definitions of sustainability and the debate over the limits to growth and potential for decoupling of growth in Gross Domestic Product, traffic volumes and environmental impacts.

The concepts of externalities will be introduced and their implications for transport market failure and the rationale for public sector intervention like congestion pricing. The principle of monetisation will be introduced and different methods for estimating externalities will be contrasted.

These sessions serve as an introduction to the technical aspects of appraisal, which are the main focus of the latter part of the module. These cover the overall philosophy of appraisal, and concepts such as social costs, value of time, generalised cost, discounting and net present value. These are used to build-up an understanding of the process of cost benefit analysis.

Alternatives and supplements to cost benefit analysis will be considered and the particular form of appraisal currently used in the UK will be explained and illustrated

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with practical examples, drawing on external contributors where appropriate.

The students will be enabled to apply the principles of appraisal to assess real-life

transport interventions.

At all stages the students will be encouraged to critically reflect on the underlying

philosophy and practical implications of the appraisal processes they are using.

Part 3: Teaching and learning methods

Teaching and learning methods: The module will be delivered through a series of

lectures and workshops. These will be mainly delivered and led by the core

programme staff, supplemented by external specialists where appropriate.

The interactive lectures will seek to explain the economic and appraisal concepts;

these being supported by practical exercise in the workshops and private study.

Module Learning outcomes: On successful completion of this module students will

achieve the following learning outcomes.

MO1 Use economic principles to evaluate transport markets, travel behaviour

and policy interventions like congestion pricing

MO2 Explain and critique the relationship between economics and concepts of

sustainability

MO3 Critically evaluate the principles of welfare economics that underpin cost

benefit analysis and the economic appraisal of transport investments

MO4 Apply the principles of UK transport appraisal to assess proposed

interventions

Hours to be allocated: 150

Contact hours:

Independent study/self-guided study = 114 hours

Face-to-face learning = 36 hours

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Total = 150

Reading list: The reading list for this module can be accessed at

readinglists.uwe.ac.uk via the following link

https://uwe.rl.talis.com/modules/ubgm8m-15-m.html

Part 4: Assessment

Assessment strategy: The Strategy:

The strategy of the assessments is to ensure that students have critical

understanding of economic theory and understanding and ability to use the UK

transport appraisal system. Hence the assessment is split across two tasks.

The Assessment:

Report (2000 words) - The report will require students to evaluate economic theories

and how theories apply to different policy levers such as congestion pricing.

Presentation (10 minutes) - The presentation will require students to conduct and

evaluate an applied transport appraisal, and use the analysis to verbally make the

case for or against an intervention.

Resit Report - a similar brief to that described above, which may include some topic

changes.

Resit Presentation - a similar brief to that described above, which may include some

topic changes.

Assessment tasks:

Presentation (First Sit)

Description: Presentation (10 mins)

Weighting: 30 %

Final assessment: No

Group work: No

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Learning outcomes tested: MO3, MO4

Report (First Sit)

Description: Report (2000 words plus appendices)

Weighting: 70 %

Final assessment: Yes

Group work: No

Learning outcomes tested: MO1, MO2

Presentation (Resit)

Description: Presentation (10 mins)

Weighting: 30 %

Final assessment: No

Group work: No

Learning outcomes tested: MO3, MO4

Report (Resit)

Description: Report (2000 words plus appendices)

Weighting: 70 %

Final assessment: Yes

Group work: No

Learning outcomes tested: MO1, MO2

Part 5: Contributes towards

This module contributes towards the following programmes of study:

Transport [Frenchay] MSc 2023-24

Transport Engineering and Planning [Frenchay] MSc 2023-24

Transport Engineering and Planning [Frenchay] MSc 2022-23