

MODULE SPECIFICATION

Part 1: Information							
Module Title	Travel Demand Analysis						
Module Code	UBGM8N-15-M	Level	Level 7				
For implementation from	2018-19	3-19					
UWE Credit Rating	15	ECTS Credit Rating	7.5				
Faculty	Faculty of Environment & Technology	Field	Geography and Environmental Management				
Department	FET Dept of Geography & E	FET Dept of Geography & Envrnmental Mgmt					
Contributes towards							
	Transport Planning [Sep][PT][Frenchay][2yrs] MSc 2018-19						
	Transport Planning [Sep][FT][Frenchay][1yr] MSc 2018-19						
	Transport Engineering and Planning [Sep][PT][Frenchay][2yrs] MSc 2018-19						
	Transport Engineering and Planning [Sep][FT][Frenchay][1yr] MSc 2018-19						
	Transport [Sep][FT][Frenchay][1yr] MSc 2018-19						
	Social Research (Sustainable Futures) [Sep][FT][Frenchay][1yr] MRes 2018-19						
	Social Research (Sustainable Futures) [Sep][PT][Frenchay][2yrs] MRes 2018-19						
Module type:	Standard						
Pre-requisites	None	None					
Excluded Combinations	None	None					
Co- requisites	None	None					
Module Entry requireme	nts None	None					

Part 2: Description

Overview: Travel demand analysis involves the understanding and prediction of travel decisons that people make eg where, when and how to travel. It is used to measure, understand and forecast how people use the transport system. Transport models are often used in travel demand analysis. The module will introduce students to theories, assumptions and methods involved in travel demand analysis.

Educational Aims: The aims of the module are: to introduce travel demand analysis; to provide the opportunity to undertake travel demand analysis; and to encourage critical debate of different approaches to travel demand analysis.

Outline Syllabus: The module will provide the opportunity to apply the methods introduced. Alternative approaches will be compared and their merits discussed. The module will include consideration of:

The role of travel demand analysis in transport planning Data collection and travel surveys Monitoring and evaluating change in travel demand Factors underlying travel choices and travel demand Mainstream transport modelling (four-stage, elasticity-based) Disaggregate choice modelling Traffic network models Alternative transport modelling approaches (activity-based, land use-transport interaction, dynamic)

Application of transport models to forecast and appraise future scenarios

Teaching and Learning Methods: The module is delivered through a series of lectures, seminars and workshops. During and between lectures students are expected to participate in solving example problems and discussing analysis approaches. Seminars are held to debate travel demand analysis issues. The workshops are linked to the project coursework. The project is further developed in student-directed time between workshops. The project involves the use of spreadsheet/statistical software to manage and analyse travel data and the use of transport modelling software to test alternative transport strategies. During the module tutors provide assistance and guidance on core mathematical skills as appropriate.

Part 3: Assessment						
See Assessment.						
First Cit. Components Final Floment Description						
First Sit Components	Assessment	weighting	Description			
Report - Component B		50 %	Project Report (6 pages) (Sem 1)			
Examination - Component A	✓	50 %	Exam (2 hours) (Final element) (Sem 1)			
Resit Components	Final Assessment	Element weighting	Description			
Report - Component B		50 %	Project Report (6 pages) (Sem 2)			
Examination - Component A	✓	50 %	Exam (2 hours) (Sem 2)			

		Part 4: Teaching and Learning Methods					
Learning Outcomes	On successful completion of this module students will be able to:						
	Module Learning Outcomes						
	MO1	ellection of data required in					
	MO2	mand from travel data					
	MO3	Explain the principles underlying tran	Explain the principles underlying transport models				
	MO4	Use a transport model to forecast an future scenarios	Use a transport model to forecast and appraise the impact of future scenarios				
	MO5	Evaluate the shortcomings of transpo	Evaluate the shortcomings of transport models				
	MO6	Compare the merits of using alternat for specific applications	Compare the merits of using alternative types of transport model for specific applications				
Ocurtost							
Hours	Contact Hours						
Tiouro							
	Independent Study Hours:						
	Independer	113					
		113					
	Scheduled Learning and Teaching Hours:						
	Face-to-fac	37					
		37					
	Hours to be allocat	150					
	Allocated Hours		150				
Reading	The reading list for th	nis module can be accessed via the following link:					
List	https://uwe.rl.talis.com/modules/ubgm8n-15-m.html						