MODULE SPECIFICATION

Part 1: Information			
Module Title	Traffic Management and Safety		
Module Code	UBGLXP-15-3	Level	Level 6
For implementation from	2019-20		
UWE Credit Rating	15	ECTS Credit Rating	7.5
Faculty	Faculty of Environment & Technology	Field	Geography and Environmental Management
Department	FET Dept of Geography & Envrnmental Mgmt		
Module type:	Standard		
Pre-requisites	None		
Excluded Combinations	None		
Co- requisites	None		
Module Entry requirements	None		

Part 2: Description
Overview: Module Entry requirements For those not already on the BEng, or for others, A level mathematics or equivalent **Educational Aims:** See learning outcomes. **Outline Syllabus:** Determinants of travel demand Surveys (measuring demand): Road traffic volume and speed surveys; Origin/destination surveys; Analysis and presentation of survey data; Junction design (catering for and managing demand): Manual and/or computer analysis of priority, roundabout and signal controlled junctions; Designing for public transport, walking and cycling (multi-modal design

Traffic signal operation and equipment and urban traffic control

Specific features for providing capacity and safety for public transport, walkers and cycle users (multi-modal design);

Safety:

Collision investigation methodology;

Sources of information used in collision investigation;

Collision prevention and remedial measures;

Monitoring, assessment and evaluation of improvement schemes.

Teaching and Learning Methods: The module guide will provide a programme of activities for students on a week by week basis. This will include, for example, the programme of tutorial work that they should be keeping abreast with, the planned lectures and class tutorials, and the activities that they should be engaging with in order to complete the assignments. It will also include any reading which they should be doing linked with class activities. Guest lecturers will be used as appropriate.

Part 3: Assessment

Component A Examination. Learning outcomes 1 to 5.
2 hour examination - open ended questions of an analytical nature with coverage of the full breadth of the syllabus.

Component B1 Learning outcomes 2,3, 5 to 7.
Analysis and interpretation of traffic survey and traffic safety data and selection of remedial measures.

Component B2 Learning outcomes 4 and 5.
Traffic engineering design of a junction to optimise capacity and reduce delays.

First Sit Components	**Final Assessment**	**Element weighting**	**Description**
Set Exercise - Component B		15 %	Survey and safety fieldwork exercise
Set Exercise - Component B		15 %	Junction design problem
Examination - Component A	✓	70 %	2 hour examination
Resit Components	**Final Assessment**	**Element weighting**	**Description**
Set Exercise - Component B		15 %	Survey and safety fieldwork exercise
Set Exercise - Component B		15 %	Junction design problem
Examination - Component A	✓	70 %	2 hour examination

Part 4: Teaching and Learning Methods

Learning Outcomes

On successful completion of this module students will achieve the following learning outcomes:

Module Learning Outcomes	Reference
Identify factors relating to transport supply and land use planning that influence travel demand	MO1
Demonstrate knowledge of the principles and practice of road traffic surveys including procedures for manual and automatic counts	MO2
Analyse, estimate the accuracy of, and present speed and volume survey data and explain variations in daily, weekly, and annual flow patterns for different types of road in different locations	MO3
Demonstrate knowledge of the principles of junction design including traffic signal control for all road users	MO4
Demonstrate knowledge of specific facilities to enhance capacity and safety for public transport, walkers and cycle users	MO5
Apply the skills required to collect and analyse road traffic collision data	MO6
Investigate and evaluate a range of alternative remedial measures and monitor and assess their effectiveness	MO7

Contact Hours

Independent Study Hours:	
Independent study/self-guided study	114
Total Independent Study Hours:	114
Scheduled Learning and Teaching Hours:	
Face-to-face learning	36
Total Scheduled Learning and Teaching Hours:	36
Hours to be allocated	150
Allocated Hours	150

Reading List

The reading list for this module can be accessed via the following link:

https://uwe.rl.talis.com/modules/ubglxp-15-3.html

Part 5: Contributes Towards

This module contributes towards the following programmes of study: