

Module Details	
Module Title:	Transportation Studies
Module Code:	CSE6013-B
Academic Year:	2019-20
Credit Rating:	20
School:	Department of Civil and Structural Engineering
Subject Area:	Civil and Structural Engineering
FHEQ Level:	FHEQ Level 6
Pre-requisites:	
Co-requisites:	

Contact Hours	
Type	Hours
Lectures	22
Tutorials	12
Directed Study	164

Availability	
Occurrence	Location / Period
BDA	University of Bradford / Academic Year (Sept - May)

Module Aims
This module aims to critically evaluate the design, operation and policy formulation of road transport infrastructure. In particular, this module covers the following topics: 1. Design and operation of priority junctions and road links in terms of capacity and safety; 2. Environmental impact assessment related to road transport infrastructure and road noise; 3. Application of road transport planning; and 4. Evaluation of materials and specifications for durable and sustainable highways.

Outline Syllabus
Fundamental concepts of transportation studies; Basic road design principles; Environmental

impact assessment studies; Transportation planning systems; Future transportation policy and planning.

Learning Outcomes

1	Evaluate general road and transportation principles and issues.
2	Examine transportation issues using calculative/conceptual models.
3	Evaluate transportation principles using available information and propose solutions to problems arising from analysis.

Learning, Teaching and Assessment Strategy

Theoretical understanding and problem solving through lectures, staff-led tutorial/example class and directed study.

Assessments of this module are conducted by one exam, one coursework and one practice exam (with discussion to students). These assessments both formative and summative will cover all LOs 1-3, and they will thoroughly assess students' understanding of this module.

Mode of Assessment

Type	Method	Description	Length	Weighting
Summative	Examination - closed book	Exam	2 hours	70%
Formative	Examination - closed book	Practice Exam and Discussions	3 hours	%
Summative	Coursework	Transportation Concept and Problem Solving	-1500 words	30%

Reading List

To access the reading list for this module, please visit <https://bradford.rl.talis.com/index.html>.

Please note:

This module descriptor has been published in advance of the academic year to which it applies. Every effort has been made to ensure that the information is accurate at the time of publication, but minor changes may occur given the interval between publishing and commencement of teaching. Upon commencement of the module, students will receive a handbook with further detail about the module and any changes will be discussed and/or communicated at this point.