

Module Details	
Module Title	Transportation Studies
Module Code	CSE6013-B
Academic Year	2020/1
Credits	20
School	Department of Civil and Structural Engineering
Subject Area	Civil and Structural Engineering
FHEQ Level	FHEQ Level 6
Pre-requisites	N/A
Co-requisites	N/A

Contact Hours	
Type	Hours
Online Lecture (Synchronous)	10
Practical Classes or Workshops	20
Tutorials	10
Directed Study	160

Availability	
Occurrence	Location / Period
BDA	/ Semester 2

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
(1) Understand fundamental concepts of transportation studies. (2) Understand basic road design principles. (3) Environmental impact assessment studies. (4) Introduction of transportation planning systems. (5) Future transportation policy and planning.

Learning Outcomes	
Outcome Number	Description
01	Understand and review general road and transportation principles and issues; examine their applications to common engineering fields.
02	Design and understand transportation principles/issues using available information; propose solutions to problems arising from analysis.

Learning, Teaching and Assessment Strategy
Theoretical understanding and problem solving through online lectures, staff-led tutorial/example class, face-to-face practical sessions and directed study. Summative assessments of this module are conducted by one exam, one lab report and one industrial study report. All assessment feedback will be given through feedback sessions, and question solution development in classes. These assessments will cover all LOs 1-2, and they will thoroughly assess students' understanding of this module. Supplementary assessment is as original.

Mode of Assessment				
Type	Method	Description	Length	Weighting
Summative	Examination - Open Book	Transportational Studies Exam	N/A	60%
Summative	Laboratory Report	Individual technical report on laboratory data	N/A	20%
Summative	Laboratory Report	Group report on industrial study	N/A	20%

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.