Module Code	CE7T01
Module Name	T1: TRANSPORTATION POLICY
ECTS Weighting[1]	5 ECTS
Semester taught	Semester 1
Module Coordinator/s	Prof. Bidisha Ghosh (bghosh@tcd.ie) Lecturer(s): Prof. Margaret O'Mahony (Margaret.omahony@tcd.ie) Prof. Brian Caulfield (brian.caulfield@tcd.ie)
Module Learning Outcomes with reference to the Graduate Attributes and how they are developed in discipline	On successful completion of this module, students should be able to: LO1. Develop an overview of transportation and traffic engineering. LO2. Develop an understanding of queuing models and traffic paradoxes. LO3. Discuss and design the layout of a traffic junction. LO4. Design and evaluate fixed-time traffic signal plan of a junction. LO5. Implement land-use models to manage traffic demand. LO6. Develop knowledge and understanding of urban transportation Management policies. LO7. Evaluate the impact of public transport policies. **Graduate Attributes: levels of attainment** To act responsibly - Enhanced To think independently - Enhanced To develop continuously - Introduced To communicate effectively - Enhanced
Module Content	The students will be given an introduction to role of policy in transportation, urban transportation policies, land-use modelling and public transport quality and benchmarking, fundamentals of traffic engineering focusing on junction and traffic signal design, queuing theory, traffic paradoxes, junction design and traffic signal designing.

[1] TEP Glossary

Teaching and Learning Methods	• Core content via lecture(direct). • Research paper and case study-based group discussion. • Individual Assignments.

Assessment Details[2]
Please include the following:

- **Assessment Component**
- **Assessment description**
- **Learning Outcome(s) addressed**
- **% of total**
- **Assessment due date**

Assessment Component	Assessment Description	LO Addressed	% of total	Week due
Continuous Assessment	Report and group discussion	LO1, LO3, LO4	10%	12, Sem 1
Examination	Written, closed-book examination	LO1-7	90%	Sem 1 exam

Reassessment Requirements	Reassessment – Examination (3 hours) –100%.
Contact Hours and Indicative Student Workload[2]	**Contact hours: 27 lectures** **Directed learning: 15 hours**
	Independent Study (preparation for course and review of materials): 55hrs
	Independent Study (preparation for assessment, incl. completion of assessment): **26 hours assignments**
Recommended Reading List	O'Flaherty, Coleman A., ed. *Transport planning and traffic engineering*. CRC Press, 2018. Traffic Engineering (What's New in Engineering) by Roger Roess , Elena Prassas & William McShane
Module Pre-requisite	4A16 Transport Engineering & Modelling
Module Co-requisite	
Module Website	

[2] TEP Guidelines on Workload and Assessment

Are other Schools/Departments involved in the delivery of this module? If yes, please provide details.	No
Module Approval Date	
Approved by	
Academic Start Year	1st September 2024
Academic Year of Date	2024/2025