

Liverpool John Moores University

Title: ROAD TRANSPORT OPERATIONS
Status: Definitive
Code: **5032MAR** (106029)
Version Start Date: 01-08-2016

Owning School/Faculty: Maritime and Mechanical Engineering
Teaching School/Faculty: Maritime and Mechanical Engineering

Team	Leader
Charles Roberts	Y

Academic Level: FHEQ5 **Credit Value:** 12 **Total Delivered Hours:** 38
Total Learning Hours: 120 **Private Study:** 82

Delivery Options

Course typically offered: Semester 1

Component	Contact Hours
Lecture	18
Tutorial	18

Grading Basis: 40 %

Assessment Details

Category	Short Description	Description	Weighting (%)	Exam Duration
Exam	AS1	Examination (3 questions from 5)	60	2
Essay	AS2	Coursework 1	20	
Essay	AS3	Coursework 2	20	

Aims

To introduce students to the theory and practice of the operation of road freight and passenger transport systems.

Learning Outcomes

After completing the module the student should be able to:

- 1 Recognise and explain the contribution of commercial road transport to the overall transport market.
- 2 Analyse the licensing and technical constraints affecting each market segment.
- 3 Demonstrate an awareness of issues relating to competency and licensing of managers.
- 4 Show an understanding of the basic principles of scheduling for both passenger and freight operations.
- 5 Examine public policy issues with respect to road transport.

Learning Outcomes of Assessments

The assessment item list is assessed via the learning outcomes listed:

EXAM	1	2	3	4	5
CW	2				
CW	5				

Outline Syllabus

The market for commercial road transport. Regulatory framework for domestic and international operations. Public policy with respect to road transport. Regulated and deregulated environments. Industrial structure. Public and private sectors. Owner-drivers, SMEs, multimodal transport groups. Own account, hire and reward and third party. Vehicles and equipment. Construction and Use and Type Approval regulations. Factors influencing design, and design constraints. Specification and procurement of vehicles for particular applications. Maintenance standards and procedures. The roles of organisations involved with controlling standards. Control of operators and drivers. Licensing and competency of managers. The Operators' Licensing scheme. Driver recruitment and training for safe operation. Drivers' Hours and the tachograph. The effect of the Working Time Directive. Management and operations. Scheduling for passenger and freight operations. Road transport costs. Variable, fixed and overhead costs. Rate/fare setting and profitability.

Learning Activities

A programme of lectures and associated tutorials.

Notes

This module examines road transport systems, including a brief overview of the

design and development of networks, and an in-depth examination of the freight and passenger systems which use them. The module allows students to apply the principles to case study examples.