Liverpool John Moores University

Title:	Information Management and Communication Systems
Status:	Definitive
Code:	**7143MAR** (122680)
Version Start Date:	01-08-2021

Owning School/Faculty: Engineering
Teaching School/Faculty: Engineering

Team	Leader
Philip Davies	Y

Academic Level:	FHEQ7	**Credit Value:**	10	**Total Delivered Hours:**	20
Total Learning Hours:	100	**Private Study:**	80		

Delivery Options
Course typically offered: Semester 2

Component	Contact Hours
Lecture	12
Tutorial	6

Grading Basis: 50 %

Assessment Details

Category	Short Description	Description	Weighting (%)	Exam Duration
Exam	AS1	Examination (2 hrs)	100	2

Aims

To analyse the operation and impact of a wide-range of information technology applications within the maritime, ports and trade environment

Learning Outcomes

After completing the module the student should be able to:

1   Appraise the principles and operation of satellite navigation and timing services
2   Evaluate the relative merits of satellite and terrestrial based systems
3   Assess the relevance of management information systems to port operations
4   Analyse the roles of IT in trade, logistics, cargo management and customs documentation

Learning Outcomes of Assessments

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

Exam   1   2   3   4

Outline Syllabus

GNSS: Systems- GPS, Galileo, GLONASS Compass
Derivative GNSS- WAAS, MSAS, EGNOS, Regional Satellites
Comparison with Terrestrial Positioning Sources.
Applications of positioning systems to navigation, asset tracking, timing
Port IT Systems – Terminal Operating Systems (operations monitoring and control) and Port Community Systems
Applications of IT to logistics and cargo management, integration with customs and financial system

Learning Activities

A programme of lectures supported by tutorials

Notes

The module introduces students to applications of position-finding technology and IT systems for port and transport industry