Liverpool John Moores University

Title:	TELECOMMUNICATIONS SYSTEMS
Status:	Definitive
Code:	**7017ENG** (105395)
Version Start Date:	01-08-2016

Owning School/Faculty: Electronics and Electrical Engineering
Teaching School/Faculty: Electronics and Electrical Engineering

Team	Leader
Ronan McMahon	Y

Academic Level:	FHEQ7	**Credit Value:**	10	**Total Delivered Hours:**	26
Total Learning Hours:	100	**Private Study:**	74		

Delivery Options

Course typically offered: Semester 1

Component	Contact Hours
Lecture	16
Practical	8

Grading Basis: 50 %

Assessment Details

Category	Short Description	Description	Weighting (%)	Exam Duration
Exam	AS1	Examination	50	2
Essay	AS2	Coursework	50	

Aims

This module is intended provide students with knowledge on Network Structure and the various elements contained within a Telecommunications system.

Learning Outcomes

After completing the module the student should be able to:

1	Model and evaluate network scenarios
2	Have extensive knowledge and understanding of network infrastructure
3	Discuss the relationships between application performance and the underlying network

Learning Outcomes of Assessments

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

Examination   2   3

Coursework   1   3

Outline Syllabus

Case study: Networks (2G, 3G, WiMAX etc)
 Access Network
   Modulation & Coding
   Planning
   Traffic prediction and planning
 Core Network
   Structure
   Nodes and Protocols
   Management
Model various networks and Applications
Assess model outcomes.

Learning Activities

Lectures and labs supported by handouts.

Notes

This module provides an overview of telecommunications systems, and the components therein. It looks at the options available within each area, and discusses how they may suit different systems requirements.