

Liverpool John Moores University

Title: Advanced Topics in Networking
Status: Definitive
Code: **6133COMP** (126640)
Version Start Date: 01-08-2021

Owning School/Faculty: Computer Science and Mathematics
Teaching School/Faculty: Computer Science and Mathematics

Team	Leader
Alessandro Raschella	Y
Denis Reilly	

Academic Level: FHEQ6
Credit Value: 20
Total Delivered Hours: 55
Total Learning Hours: 200
Private Study: 145

Delivery Options

Course typically offered: Semester 2

Component	Contact Hours
Lecture	22
Practical	22
Tutorial	11

Grading Basis: 40 %

Assessment Details

Category	Short Description	Description	Weighting (%)	Exam Duration
Report	AS1	Application Evaluation	50	
Report	AS2	Network Design Model	50	

Aims

To develop and extend students ability to critically analyse state-of-the-art developments in networking.

Learning Outcomes

After completing the module the student should be able to:

- 1 Evaluate a range of state of the art developments in networking.
- 2 Critically analyse state of the art research in networking.
- 3 Assess the impact of state of the art platforms on networking applications.

Learning Outcomes of Assessments

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

Application Evaluation	1	
Network Design Model	2	3

Outline Syllabus

A range of state-of-the-art technologies will be studied, including:

Network Algorithmics

Software Defined Networking

Virtualization

Performance Monitoring

Learning Activities

Students will attend lectures, supported by tutorials and lab sessions to develop their theoretical and practical knowledge through tasks and discussions.

Notes

This module will examine advanced topics in computer networking and use case studies to help students develop an understanding.