

Liverpool John Moores University

Title: FUTURE INTERNET
Status: Definitive
Code: **7121COMP** (121344)
Version Start Date: 01-08-2021

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

Team	Leader
Faycal Bouhafs	Y

Academic Level: FHEQ7
Credit Value: 20
Total Delivered Hours: 35
Total Learning Hours: 200
Private Study: 165

Delivery Options

Course typically offered: Semester 2

Component	Contact Hours
Lecture	11
Practical	11
Tutorial	11

Grading Basis: 50 %

Assessment Details

Category	Short Description	Description	Weighting (%)	Exam Duration
Report	AS1	A design exercise involving a network scenario and use of future internet techniques	50	
Exam	AS2	Examination	50	2

Aims

To discuss the evolution of the current Internet toward addressing future challenges

To introduce future networking paradigms and technologies and the strategies to engineer their solutions

Learning Outcomes

After completing the module the student should be able to:

- 1 Evaluate technologies and methods used in today's Internet
- 2 Interpret technical issues to be addressed to support future Internet applications
- 3 Design solutions using emerging technologies and paradigms that will support next generation Internet
- 4 Appraise future internet techniques, methods, and architectures against current internet solutions

Learning Outcomes of Assessments

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

Network Design Task	1	2	3
Exam	1	2	4

Outline Syllabus

Future Internet Trends
Future Internet Enabling Technologies
Emerging Network Architectures
Network Protocols and Practice
Theory and Models
Resource Management in Future Internet
New Networking Paradigms

Learning Activities

Students will participate in lectures, tutorials, and practical lab sessions.

Notes

The module exposes students to ongoing research and development in the area of next generation 'future' Internet. Our current Internet is built on old technology but replacing that is a huge engineering challenge. As a Level 7 module it is research oriented and builds on students knowledge from previous levels in the programme.