Liverpool John Moores University

Title:	MEDIA SERVERS AND NETWORK STREAMING		
Status:	Definitive		
Code:	6043TECH (105700)		
Version Start Date:	01-08-2016		
Owning School/Faculty: Teaching School/Faculty:	Electronics and Electrical Engineering Electronics and Electrical Engineering		

Team	Leader
Paul Otterson	Y

Academic Level:	FHEQ6	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	12
Practical	24

Grading Basis: 40 %

Assessment Details

Category	Short Description	Description	Weighting (%)	Exam Duration
Essay	AS1	Coursework – set up streaming broadcast and content	50	
Exam	AS2	Examination	50	2

Aims

To develop an understanding and ability to implement, operate and manage media streaming, media servers and associated network hardware and software.

Learning Outcomes

After completing the module the student should be able to:

- 1 Understand the theory and practical configuration of a media server on a network.
- 2 Develop, broadcast and troubleshoot, recorded and live streaming content over a network
- 3 Show both theoretical and practical implementation of media server operations and manage media server assets.
- 4 Integrate media and web-servers for notification, advertising and site pointing.

Learning Outcomes of Assessments

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

CW	1	2	3	4
EXAM	1	3	4	

Outline Syllabus

Internet Audio and Video Basics and concepts Capturing, editing and rendering and optimizing Encoding Encoding basics and formats (Windows Media, Quicktime, RealSystem) Techniques Utilizing encoded files Web Browser authoring, controlling and embedding Server Operations Server basics Ports, TCP/IP, web-servers and DNS, media servers Install and Run Media Server Consideration of Platforms, Bandwidth and Firewalls and Deployment Live Broadcast Streaming Troubleshooting and Log files Media Asset and Digital Rights Management

Learning Activities

Lectures and laboratory classes

Notes

This module builds on students' prior knowledge of creating multimedia AV presentations and provides both a theoretic and practical experience of configuring and running media streaming servers.