Liverpool John Moores University

Title: CLOUD COMPUTING
Status: Definitive
Code: **6521YCOM**   (118251)
Version Start Date: 01-08-2018

Owning School/Faculty: Computer Science
Teaching School/Faculty: YPC International College (Kolej Antarabangsa YPC)

Team	Leader
Glyn Hughes	Y

Academic Level:	FHEQ6	Credit Value:	12	Total Delivered Hours:	36
Total Learning Hours:	120	Private Study:	84		

Delivery Options
Course typically offered: Semester 2

Component	Contact Hours
Lecture	24
Tutorial	12

Grading Basis: 40 %

Assessment Details

Category	Short Description	Description	Weighting (%)	Exam Duration
Report	AS1	Investigation concerning data centre design.	100	

Aims

To appreciate the relationship with and variation to the internet and corporate network and in so doing, understand the potential benefits to businesses and consumers.
To investigate the hardware and software architecture of Cloud Computing and understand how virtualisation is key to a successful Cloud Computing solution.

Learning Outcomes

After completing the module the student should be able to:

1   Describe the hardware and software concepts and architecture of Cloud
           Computing.
2   Contrast the key technical and commercial issues concerning Cloud Computing
           versus traditional software models.
3   Recognize the importance of virtualisation technology in support of Cloud
           Computing.
4   Specify and design Cloud Computing capable data centres.

Learning Outcomes of Assessments

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

Data centre design   1   2   3   4

Outline Syllabus

Overview of the Traditional Software Models.
Internet Infrastructure.
The Data Centre.
Virtualisation Technology.
Rise of Cloud Computing and Virtualisation
SaaS, PaaS & IaaS subsets within Cloud Computing.
Case Study - Benefits to Business and Consumers.
Data Centre Design Considerations.
Windows Azure Platform - Case Study.
Linux - Case Study.

Learning Activities

Learning activities will be through lectures and tutorials where students will be
encouraged to ask questions and discuss case studies.

Notes

This module covers the history of and current developments in Cloud Computing and
its supporting concepts and technology.