

Liverpool John Moores University

Title: CLOUD COMPUTING FOR BUSINESS
Status: Definitive
Code: **5527DBSCCB** (119198)
Version Start Date: 01-08-2011

Owning School/Faculty: Liverpool Business School
Teaching School/Faculty: Liverpool Business School

| Team | Leader |
|----------------|--------|
| Alistair Beere | Y |

Academic Level: FHEQ5
Credit Value: 24.00
Total Delivered Hours: 14.00
Total Learning Hours: 240
Private Study: 226

Delivery Options

Course typically offered: Standard Year Long

| Component | Contact Hours |
|-----------|---------------|
| Practical | 12.000 |

Grading Basis: 40 %

Assessment Details

| Category | Short Description | Description | Weighting (%) | Exam Duration |
|----------|-------------------|-------------|---------------|---------------|
| Exam | EXAM | | 50.0 | 2.00 |
| Report | REPORT | | 40.0 | |
| Essay | ESSAY | | 10.0 | |

Aims

1. To examine the evolution and key drivers of Cloud Computing.
 2. To understand the concepts, architecture, and components of Cloud Computing.
 3. To explain the key issues for business when deploying current and new business systems and applications to the cloud.
- To evaluate the role of Cloud Computing in increasing competitiveness for business in relation to cost, security and opportunities

Learning Outcomes

After completing the module the student should be able to:

- 1 Describe the different cloud technologies, platforms and services used by organisations and their application to business operations, processes and activities.
- 2 Demonstrate best practice in the use of Cloud Computing in the modern business environment.

Learning Outcomes of Assessments

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

| | | |
|--------|---|---|
| EXAM | 1 | 2 |
| REPORT | 1 | 2 |
| ESSAY | 1 | 2 |

Outline Syllabus

- *A Brief History of the Business and Technology Drivers that Led to Cloud Computing*
- *Fundamental Cloud Computing Terminology and Concepts*
- *Horizontal and Vertical Scaling*
- *Virtualization*
- *Characteristics of a Cloud*
- *On-Premise Services vs. Cloud Services*
- *Understanding Elasticity, Resiliency, On-Demand and Measured Usage*
- *Benefits, Challenges and Risks of Contemporary Cloud Computing Platforms and Cloud Services*
- *Cloud Consumers and Cloud Providers*
- *Cloud Resource Administrator and Cloud Service Owner Roles*
- *Cloud Service and Cloud Service Consumer Roles*
- *Organizational and Trust Boundaries as They Pertain to Cloud Consumers and Providers*
- *Software as a Service (SaaS), Platform as a Service (PaaS) and Infrastructure as a Service*

Learning Activities

Teaching and Learning Strategy

Classes will take place in lecture format with built-in group and pair-work to aid discussion and debate. Case studies will be used to support applied learning and develop problem solving skills. Lab tutorials will take place to facilitate on-line research exploring current cloud services and platforms.

References

Notes

Students will gain a solid understanding of the fundamental concepts and architecture of Cloud Computing. Students will learn about the evolution of the cloud and its ability to increase processing power and bandwidth capabilities. They will learn about the key stakeholders, technologies, products, services, platforms and applications that enable Cloud Computing. An evaluation of the benefits, challenges, and risks of implementing a Cloud Computing platform, including standards and best practices will form a crucial component of this module