# **Liverpool** John Moores University

Title: ADVANCED WEB DEVELOPMENT

Status: Definitive

Code: **7057COMP** (103316)

Version Start Date: 01-08-2011

Owning School/Faculty: Computing and Mathematical Sciences Teaching School/Faculty: Computing and Mathematical Sciences

Team	emplid	Leader
Mike Baskett		Υ

Academic Credit Total

Level: FHEQ7 Value: 15.00 Delivered 36.00

**Hours:** 

Total Private

Learning 150 Study: 114

**Hours:** 

**Delivery Options** 

Course typically offered: Semester 2

Component	Contact Hours
Lecture	12.000
Practical	12.000
Tutorial	12.000

**Grading Basis:** 40 %

### **Assessment Details**

Category	Short Description	Description	Weighting (%)	Exam Duration
Artefacts	AS1	Individual assessment, including the design of a website for an advanced web development task.	100.0	

### **Aims**

To develop an advanced understanding of the theory and practice of building interactive web applications.

To provide an in-depth study of the concepts of the technologies that can be used to build interactive web-based applications.

To develop practical skills in the use of best practices in developing interactive applications for the web.

## **Learning Outcomes**

After completing the module the student should be able to:

- 1 Critically review the fundamental technical concepts, design and implementation of an interactive web based application.
- 2 Design and diagnose basic web-based architectures to support a wide range of interactive applications
- Apply creative skills concerning the approaches and practices used to build interactive web applications using modern programming practices.

## **Learning Outcomes of Assessments**

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

Website design 1 2 3

# **Outline Syllabus**

Adding interactivity to web applications.

Rich Internet Applications: Flash technologies

Server-side development: Java web technologies, ASP.NET, etc.

The .Net framework

Database connectivity and applications: SQL, MySQL, ADO.NET, PHP, etc.

Web Services: SOAP, etc.

Practical E-Commerce and Security.

Mobile internet and WML.

### **Learning Activities**

Formal lectures will introduce core topics. Laboratory sessions will introduce coding exercises to develop programming skills.

### References

Course Material	Book
Author	Jackson, J.C.
Publishing Year	2007
Title	Web Technologies: A Computer Science Perspective
Subtitle	
Edition	
Publisher	Prentice-Hall, Inc.
ISBN	0131856030

Course Material	Book
Author	Deitel, H., Deitel, P.
Publishing Year	2008
Title	Internet & World Wide Web: How to Program
Subtitle	
Edition	4th Edition
Publisher	Prentice Hall
ISBN	0131752421

Course Material	Book
Author	Yuen, P.K., Lau, V.
Publishing Year	2003
Title	Practical Web Technologies
Subtitle	
Edition	
Publisher	Addison Wesley
ISBN	0201750767

### **Notes**

This module provides practical experience of building advanced, interactive, modern, web-based applications as well as providing a thorough grounding of theory and technology currently in use.