

Liverpool John Moores University

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Title: Web Development
Status: Definitive
Code: **5612TECYPC** (129167)
Version Start Date: 01-08-2021

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

Team	Leader
Karl Jones	Y

Academic Level: FHEQ5 **Credit Value:** 20 **Total Delivered Hours:** 48
Total Learning Hours: 200 **Private Study:** 152

Delivery Options

Course typically offered: Semester 2

Component	Contact Hours
Lecture	24
Tutorial	24

Grading Basis: 40 %

Assessment Details

Category	Short Description	Description	Weighting (%)	Exam Duration
Report	AS1	Report writing	100	

Aims

To allow the student to investigate a variety of web development technologies and practice techniques for developing dynamic websites

Learning Outcomes

After completing the module the student should be able to:

- 1 Evaluate client-side technologies for use in developing a website
- 2 Produce appropriate dynamic content for a website using a combination of HTML, CSS, and JavaScript
- 3 Implement dynamic web functionality to access an appropriate data source
- 4 Explain server-side processing in relation the development of a website (eg. PHP)

Learning Outcomes of Assessments

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

Report writing	1	2	3	4
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Outline Syllabus

Overview of the Internet and World Wide Web Client and Server communications

Client-side markup and formatting languages

Web page layout

Client side dynamism techniques

Dynamic behaviour with JavaScript

Asynchronous web applications

Server side dynamism techniques and programming (e.g. PHP)

Database: e.g. JDBC, MySQL

Learning Activities

A hands-on laboratory session where the student will develop their own dynamic web applications.

Notes

This module seeks to endow the student with the necessary knowledge and underpinning technologies to develop for the World Wide Web. Students will learn techniques and technologies to develop web applications, using a server-side programming language to dynamically generate standards compliant markup, driven from a data source, using design principles that abstract content from aesthetic and utilizes client-side dynamism to enhance the user's experience, using industry standard toolsets and web-focused APIs.