

Introduction to Web Development

Module Information

2022.01, Approved

Summary Information

Module Code	4506SEPA
Formal Module Title	Introduction to Web Development
Owning School	Computer Science and Mathematics
Career	Undergraduate
Credits	20
Academic level	FHEQ Level 4
Grading Schema	40

Teaching Responsibility

LJMU Schools involved in Delivery
LJMU Partner Taught

Partner Teaching Institution

Institution Name
Beaconhouse Group

Learning Methods

Learning Method Type	Hours
Workshop	44

Module Offering(s)

Display Name	Location	Start Month	Duration Number Duration Unit
JAN-PAR	PAR	January	12 Weeks

Aims and Outcomes

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

After completing the module the student should be able to:

Learning Outcomes

Code	Number	Description
MLO1	1	Evaluate client-side technologies for use in developing a website
MLO2	2	Explain server-side processing in relation the development of a website
MLO3	3	Produce appropriate dynamic content for a website
MLO4	4	Implement dynamic web functionality to access an appropriate data source
MLO5	5	Compare common internet communication protocols used by websites

Module Content

Outline Syllabus	Networks, the Internet and World Wide Web Client and Server communications; Request-response communication protocols Web Design Client-side markup and formatting languages Web page layout Client side dynamism techniques Server side dynamism techniques and programming (e.g. PHP) Asynchronous web applications Web security; Transport-layer security
Module Overview	
Additional Information	Increasingly much of the world's software is being run in a web browser. Software offered over the Web provides many sought after benefits in software deployment: ease of implementation, universality and ubiquity of access, and availability of server-side data and services. 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, hosted on a web application server, using a server side programming language to dynamically generate standards compliant markup, driven from a data source, using design principles which abstract content from aesthetic and utilises client-side dynamism to enhance the user's experience, using industry standard toolsets and web-focused APIs.

Assessments

Assignment Category	Assessment Name	Weight	Exam/Test Length (hours)	Module Learning Outcome Mapping
Report	Design of a Web Application	50	0	MLO1, MLO2, MLO5
Technology	Web Application	50	0	MLO3, MLO4

Module Contacts

Module Leader

Contact Name	Applies to all offerings	Offerings
Christopher Carter	Yes	N/A

Partner Module Team

Contact Name	Applies to all offerings	Offerings
--------------	--------------------------	-----------