

## Website Design and Development

### Module Information

2022.01, Approved

#### Summary Information

Module Code	4547NCCG
Formal Module Title	Website Design and 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
Nelson and Colne College Group

#### Learning Methods

Learning Method Type	Hours
Lecture	60

#### Module Offering(s)

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

SEP_NS-PAR	PAR	September (Non-standard start date)	12 Weeks
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## Aims and Outcomes

Aims	This module introduces students to the underpinning services required to host, manage and access a secure website before introducing and exploring the methods used by designers and developers to blend back-end technologies (server-side) with frontend technologies (client-side). To help ensure new designers are able to design and deliver a site that offers an outstanding User Experience (UX) supported by an innovative User Interface (UI) this module also discusses the reasons, requirements, relationships, capabilities and features of the systems they will be using and gives them an opportunity to explore various tools, techniques and technologies with 'good design' principles to plan, design and review a multipage website.
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**After completing the module the student should be able to:**

### Learning Outcomes

Code	Number	Description
MLO1	1	Explain server technologies and management services associated with hosting and managing websites.
MLO2	2	Categorise website technologies, tools and software used to develop websites.
MLO3	3	Utilise website technologies, tools and techniques with good design principles to create a multipage website.
MLO4	4	Create and use a Test Plan to review the performance and design of a multipage website.

## Module Content

Outline Syllabus	Relationships between domain names, DNS services and communication protocols. Overview of publishing and managing secure websites. Search engine optimisation. Server technologies. Software and host operating systems. Common web development technologies and frameworks Website technologies: front-end technologies, presentation layers and client-side programming to build a User Interface (UI) and effect User Experience (UX). Back-end technologies, application layers and server-side programming. Tools, techniques and software used to develop websites. Improving User Experience (UX) through Rich Internet Application (RIA) design using. Overview of online content management systems. Effect of audience and purpose on the look and feel of a website. Accessibility standards and guideline. Create good content combined with good design principles. Recognised design principles. Website performance: use of intuitive interfaces and actions, user-friendly designs, appropriate graphics, effective navigation and good quality content to establish user trust and deliver good User Experience (UX). Effects of search engine optimisation (SEO) and indexing on the performance of a website. Assess the performance of a website: Assess the impact of poorly optimised website graphics. Research and conduct Quality Assurance (QA) and usability testing on a multipage website.
Module Overview	
Additional Information	

## Assessments

Assignment Category	Assessment Name	Weight	Exam/Test Length (hours)	Module Learning Outcome Mapping
Technology	Website documentation	100	0	MLO1, MLO2, MLO4

Competency	NCC Group Pass/Fail			MLO3
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## Module Contacts

### Module Leader

Contact Name	Applies to all offerings	Offerings
Bob Askwith	Yes	N/A

### Partner Module Team

Contact Name	Applies to all offerings	Offerings
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