Liverpool John Moores University

Title: WEBSITE DESIGN AND DEVELOPMENT
Status: Definitive
Code: **4547NCCG**   (129509)
Version Start Date: 01-08-2021

Owning School/Faculty: Computer Science and Mathematics
Teaching School/Faculty: Nelson Campus

Team	Leader
Robert Askwith	Y
Silvester Czanner	

Academic Level:	FHEQ4	**Credit Value:**	20	**Total Delivered Hours:**	60
Total Learning Hours:	200	**Private Study:**	140		

Delivery Options
Course typically offered: S1, S2 and NS2 (S2 for Jan)

Component	Contact Hours
Lecture	60

Grading Basis: 40 %

Assessment Details

Category	Short Description	Description	Weighting (%)	Exam Duration
Report	Website	Website documentation	100	

Competency	NCC Group Pass/Fail

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 opportmoduley to explore various tools, techniques and technologies with 'good design' principles to plan, design and review a multipage website.

Learning Outcomes

After completing the module the student should be able to:

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

Learning Outcomes of Assessments

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

Website documentation   1   2   4

NCC Group Pass/Fail   3

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.

Learning Activities

Lectures

These will not normally be traditional didactic lectures in which the student plays little active part, but will be delivered in small groups of up to 20 students in which their interaction with their tutor is a key ingredient of their learning experience.

The material of this module requires the development of significant practical skill. This will be taught within the lecture time, making these sessions a blend of lecture and workshop time. The sessions will be timetabled in spaces with physical resources appropriate to the delivered content.

Students will receive approximately 30 hours of taught material, supported by in-class exercises and discussions designed to help student assimilate learning and to provide early informal feedback on their progress.

Practical Work

This module contains directed practical work that students will undertake under the supervision of teaching staff and/or technicians. Some elements of this practical work will form part of the assessment for this module.

Independent Study

Students are expected to undertake personal reading and research into topic areas that have been stimulated from the lectures and seminars. This reading will enhance their academic work and enable valid contribution to lectures and seminars.

VLE support

This will provide links to academic web-sites and on-line journals, facilitate group discussion outside of the classroom, access to outline lecture notes, and provide students with assessment details.

Notes

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