

### Summary Information

Module Code	4202COMP
Formal Module Title	Networks and 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
Computer Science and Mathematics

### Learning Methods

Learning Method Type	Hours
Lecture	22
Practical	22

### Module Offering(s)

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

### Aims and Outcomes

Aims	To introduce students to the most common technologies underlying modern computer networking and communications. To introduce the basic concepts of internet and web technologies. To explore the design issues of modern networked applications.
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**After completing the module the student should be able to:**

**Learning Outcomes**

Code	Number	Description
MLO1	1	Identifying appropriate uses of web client-side technologies.
MLO2	2	Convert user requirements into interactive web pages using modern tools and technologies.
MLO3	3	Identify applications of Network/Internet protocols.
MLO4	4	Describe various features of Computer Networks and the Internet’s infrastructure.

**Module Content**

Outline Syllabus	<p>Basic computer networking concepts                      Internet networking: Personal, Local and Wide Area Networks                      Internet Service Providers / Broadband / Telecommunications                      Network / Internet protocols: TCP / IP/ DNS / HTTP                      Technical, social and regulatory challenges in the Internet                      Understanding the construction of the World Wide Web                      The basics of HTML living standard                      Advanced HTML5 features (Video and Canvas)                      Cascade Style Sheets (CSS)                      Web Browsers and Rendering                      Usability &amp; Accessibility                      Scripting languages (JavaScript/JQuery)                      XML/JSON                      Introduction to Web Server Technologies                      Social Media Technologies</p>
Module Overview	<p>This module provides you with an understanding of modern Internet and web technologies. It will present the technologies underlying computer networking and the applications built on networks. These include interactive Web, development and social media technologies. This module enables you to:</p> <ul style="list-style-type: none"> <li>â€¢ Identify appropriate uses of web client-side technologies</li> <li>â€¢ Convert user requirements into interactive web pages using modern tools and technologies</li> <li>â€¢ Identify applications of Network/Internet protocols</li> <li>â€¢ Describe various features of Computer Networks and the Internet's infrastructure.</li> </ul>
Additional Information	<p>This module is intended to provide students with an understanding of modern Internet and web technologies. It will present the technologies underlying computer networking and the applications built on networks. These include interactive Web page design, development and social media technologies.</p>

**Assessments**

Assignment Category	Assessment Name	Weight	Exam/Test Length (hours)	Module Learning Outcome Mapping
Technology	Website development	50	0	MLO1, MLO2
Centralised Exam	Examination	50	2	MLO3, MLO4

**Module Contacts**

**Module Leader**

Contact Name	Applies to all offerings	Offerings
Kirsty Lever	Yes	N/A

**Partner Module Team**

Contact Name	Applies to all offerings	Offerings
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