Internet and Open Source Programming

Module Information

2022.01, Approved

Summary Information

Module Code	6602TECYPC
Formal Module Title	Internet and Open Source Programming
Owning School	Engineering
Career	Undergraduate
Credits	20
Academic level	FHEQ Level 6
Grading Schema	40

Teaching Responsibility

LJMU Schools involved in Delivery
LJMU Partner Taught

Partner Teaching Institution

Institution Name
YPC International College (Kolej Antarabangsa YPC)

Learning Methods

Learning Method Type	Hours
Lecture	24
Practical	24
Tutorial	24

Module Offering(s)

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

Aims and Outcomes

Aims	To develop student's programming capabilities to build applications and web using open source programming.To prepare students for software and website development at higher levels so that the skills are transferable both in work and higher levels of study.

After completing the module the student should be able to:

Learning Outcomes

Code	Number	Description
MLO1	1	Critically evaluate the difference between open source software and commercial software
MLO2	2	Determine the concepts, strategies, and methodologies related to open source language
MLO3	3	Appraise and apply the internet scripting languages and development tools currently available in the market
MLO4	4	Utilize open-source software for developing a variety of software applications and web applications

Module Content

Outline Syllabus	The rational for JAVA, its development history, the JAVA virtual machineThe JAVA language: basic syntax, variable types, looping constructs.Object orientated programming: polymorphism, inheritance, classes, and interfacesWriting a simple application that apply all element of e-commerce.Scripting languages: e.g. JavaScript and PHPDatabase: e.g. JDBC, MySQLOpen Source Applications
Module Overview	
Additional Information	This module is designed to enable students to use open-source programming languages to developing various open-source applications such as software applications and web application.

Assessments

Assignment Category	Assessment Name	Weight	Exam/Test Length (hours)	Module Learning Outcome Mapping
Presentation	Mini Project and Presentation	100	0	MLO1, MLO2, MLO3, MLO4

Module Contacts

Module Leader

Contact Name	Applies to all offerings	Offerings
Karl Jones	Yes	N/A

Partner Module Team

Contact Name	Applies to all offerings	Offerings