

Liverpool John Moores University

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Title: Internet and Open Source Programming
Status: Definitive
Code: **6602TECYPC** (121726)
Version Start Date: 01-08-2021
Owning School/Faculty: Engineering
Teaching School/Faculty: YPC International College (Kolej Antarabangsa YPC)

Team	Leader
Karl Jones	Y

Academic Level: FHEQ6
Credit Value: 20
Total Delivered Hours: 72
Total Learning Hours: 200
Private Study: 128

Delivery Options

Course typically offered: Semester 1

Component	Contact Hours
Lecture	24
Practical	24
Tutorial	24

Grading Basis: 40 %

Assessment Details

Category	Short Description	Description	Weighting (%)	Exam Duration
Essay	AS1	Mini Project, Presentation (30 mins)	100	

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.

Learning Outcomes

After completing the module the student should be able to:

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

Learning Outcomes of Assessments

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

Mini Project and Presentation	1	2	3	4
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Outline Syllabus

The rationale for JAVA, its development history, the JAVA virtual machine
The JAVA language: basic syntax, variable types, looping constructs.
Object orientated programming: polymorphism, inheritance, classes, and interfaces
Writing a simple application that apply all element of e-commerce.
Scripting languages: e.g. JavaScript and PHP
Database: e.g. JDBC, MySQL
Open Source Applications

Learning Activities

A series of lecture, tutorial and practical sessions. Different computing platforms will be used to emphasise the platform independence available from the internet.

Notes

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.