

## Liverpool John Moores University

Title: INTERNET AND OPEN SOURCE PROGRAMMING  
Status: Definitive  
Code: **6504TECYPC** (115870)  
Version Start Date: 01-08-2018

Owning School/Faculty: Engineering  
Teaching School/Faculty: YPC International College (Kolej Antarabangsa YPC)

Team	Leader
Michael Shaw	

**Academic Level:** FHEQ6      **Credit Value:** 24      **Total Delivered Hours:** 115

**Total Learning Hours:** 240      **Private Study:** 125

### Delivery Options

Course typically offered: Standard Year Long

Component	Contact Hours
Lecture	56
Practical	56

**Grading Basis:** 40 %

### Assessment Details

Category	Short Description	Description	Weighting (%)	Exam Duration
Practice	AS1	Mini project e-commerce website	30	
Practice	AS2	Assignment Java application	20	
Exam	AS3	Examination	50	3

### Aims

*To provide a comprehensive treatment of current internet programming techniques.*

### Learning Outcomes

After completing the module the student should be able to:

- 1 Design JAVA applications using an open source language
- 2 Specify and construct an e-commerce web site
- 3 Design using internet scripting languages
- 4 Design and link MySQL databases using PHP
- 5 Appraise and configure Apache' Server

### Learning Outcomes of Assessments

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

Practical 1	2	4
Practical 2	1	
Exam	3	5

### 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, interfaces  
 Writing a simple website which apply all element of e-commerce.  
 Scripting languages: e.g. JAVAScript and PHP  
 Database: e.g. JDBC, MySQL  
 XML, HTML, XHTML, Style sheets  
 Open Source Applications*

### Learning Activities

A series of practical sessions with support material supplied from the Internet. Different computing platforms will be used to emphasis the platform independence of the internet.

<b>Course Material</b>	Book
<b>Author</b>	J. Murach, R. Harris
<b>Publishing Year</b>	2010
<b>Title</b>	Murach's PHP and MySQL
<b>Subtitle</b>	
<b>Edition</b>	
<b>Publisher</b>	Mike, Murach and Associate
<b>ISBN</b>	

<b>Course Material</b>	Book
<b>Author</b>	Larry Ulman
<b>Publishing Year</b>	2011

<b>Title</b>	PHP for Web
<b>Subtitle</b>	
<b>Edition</b>	4th ed
<b>Publisher</b>	Visual Quick Start Guide
<b>ISBN</b>	

<b>Course Material</b>	Book
<b>Author</b>	S.Regis , M.Stepp
<b>Publishing Year</b>	2011
<b>Title</b>	Building Java Programs, Back To Basics Approach
<b>Subtitle</b>	
<b>Edition</b>	
<b>Publisher</b>	Pearson Education
<b>ISBN</b>	

<b>Course Material</b>	Book
<b>Author</b>	Y.D.Liang
<b>Publishing Year</b>	2011
<b>Title</b>	Introduction to Java Programming
<b>Subtitle</b>	
<b>Edition</b>	8th ed
<b>Publisher</b>	Pearson Education
<b>ISBN</b>	

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## Notes

This module is designed for students wishing to look into Java and open source programming. There is an expectation that students will have already covered modules in web design, programming, database creation and some general computing.