**CIT 415: WEB APPLICATIONS AND PROGRAMMING**

**Year 4 Semester 1**

**Description of Course Content**

**CIT 415 Web Applications And Programming 42 Hours**

**Purpose of the Course**

Equip the student with working knowledge of web application programing and its application in the modern enterprise

**Objectives of the Course**

* To understand the concept of web application programming and its application
* To understand the process of creating scripts and their functions
* To have a working knowledge of PHP and Databases (MySQL)
* Understand web access to database

**Expected Learning Outcomes**

*At the end of this course the learner should be able to*

* Should have a thorough understanding of the of web application programming and its application
* Demonstrate skills in creating scripts for specific functions
* Demonstrate competence in using PHP and Databases (MySQL) applications
* Create web application that have access to a backend database

**Topics to be Covered**

HTML forms, JavaScript, Servlets and Java Server Pages, PHP and MySQL, Web access to Oracle databases, and XML.

**Mode of Delivery**

Lectures, Practical Laboratory Demonstrations, Laboratory Exercise, Tutorial Sessions

**Instructional Materials and Equipment**

Whiteboard, Marker Pens, Computer Systems, Web Development and Programming Platform, Projector

**Course Assessment**

***Student Performance***

Continuous Assessment Tests (CATs), Combination of continuous practical assessment (CPA), individual Programming assignments, End of semester examinations

***Assessment of Lecturer***

Evaluation forms completed by students

### Recommend Reading Materials

* Eric Elliott (2014) *Programming JavaScript Applications: Robust Web Architecture with Node, HTML5, and Modern JS Libraries*. O’Reilly
* Jonathan Bartlett (2016) *Building Scalable Web Applications Using the Cloud: A Simple Guide to Programming and Administering Cloud-Based*
* Gary B. Shelly and Mark Frydenberg (2010) *Web 2.0: Concepts and Applications (Desktop App Programming)* Cengage
* Purewal Semmy (2014) *Learning Web App Development*. O’Reilly
* Nicholas S. Williams (2014) *Professional Java for Web Applications*. John Wiley and Sons

**References Recommended - Journal**

* *International* Journal of Web *Engineering*

### *International Journal of Web Information Systems information*

### *International Journal of Web Applications*

### *Journal of Web Semantics – Elsevier*

### *International* Journal of Web *Engineering and Technology - Inderscience*