MULTIMEDIA UNIVERSITY OF KENYA

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Leader in Innovative Technology

FACULTY OF COMPUTING & INFORMATION TECHNOLOGY
DEPARTMENT OF COMPUTER SCIENCE
COURSE OUTLINE

Code & Name	CSE_CCS 2314 : Web Development II
Prerequisite	Software Applications
Cohort	BCS/BSE Y3S1, September– December 2025
Lecturer	Njiru. N(Mr.)
Contact	nickmnjiru@gmail.com, 0725737355

Purpose

To enable the student understand the tasks and processes involved in creating systems

At the end of the course students should be able to:

1. Understand some basic principles of Web Development practices.
2. Understand the difference between HTML, CSS, JavaScript and PHP.
3. Create a basic web page/s/Websites/intranets and extranets.
4. Be ready to start a deeper exploration of HTML, CSS and/or JavaScript.
5. Create, modify, and format content with basic CSS.
6. Create Interactive web pages.
7. Create CRUD Applications using XXAMP or WAMP
8. Create and maintain responsive websites and employ strategies with user-centered design methodologies, usability principles, accessibility, web-based information architecture and design.
9. Use core front-end web coding languages to add dynamic content, animation and effects to websites and mobile apps.
10. Create UI/UX artifacts needed to articulate visual design mock-ups, wireframes, or interactive prototypes.
11. Display ability to adapt to changing Web development and design skills and solid understanding of common design trends.

Course Description

Delivery Methodology

Face to Face Lectures/lecture notes, Case study discussion, Laboratory/Practical sessions, Group discussions and presentations by students

Learning Resources

Overhead projector, Lecture notes, Publications, white boards, textbooks. Demonstration projects using Prolog.

Course Content

WEEK	TOPIC	OUTLINE

WK1	Introduction	• Introduction to Internet Application programming • Introduction to HTML • Review of HTML Elements • Lists, Inserting Spaces and Line Breaks
WK2	Hypertext Markup Language	• Creating a Hyperlink • Graphic File Formats • Tables • Forms
WK3	Cascaded Sheet Style	• Browsers and CSS • CSS Rule structure • Selector basics • Color • Storing CSS • Combining selectors • Properties overview • Inline and block tags. • Text and fonts. • CSS units of measurement
WK4	Introduction to Client-Side JavaScript	• Introduction to JavaScript • Statements and Operators • Document Object Model • Conditional statements • Form Validations
WK5	JavaScript	• Loops • Window object Document object Arrays • Advanced JavaScript • Introduction to Jquery
WK6	**PROJECT1**	**CAT ONE**
WK7	Introduction to PHP/WAMP/XXAMP	Using PHP. Sample Application. Embedding PHP in HTML. Adding Dynamic Content. Accessing Form Variables. Identifiers. User Declared Variables. Assigning Values to Variables. Variable Types. Constants. Variable Scope. Operators.
WK8	PHP	Using Operators: Working Out the Form Totals. Precedence and Associativity: Evaluating Expressions. Variable Functions. Control Structures. Making Decisions with Conditionals. Iteration: Repeating Actions. Breaking Out of a Control Structure or Script. Saving the Records.
WK9/WK10	PHP/MySQL	Create, Retrieve, Update and Delete Database Operations(CRUD) Application

WK11	Frameworks	Overview of : CodeIgnitor, CakePHP, Zend Framework,
WK12	Frameworks	Overview of : Yii PHP Framework ,Joomla, WordPress,
WK13	**PROJECT2**	**CAT TWO**
WK14	**REVISION**	**BUILDING PRACTICAL HTML/JavaScript/PHP AND MySQL Projects.**
WK15	**EXAMS**	

Course Assessment

Continuous Assessment Tests   30%
End of Semester Examination   70%

Course Textbooks

1) Learning PHP, MySQL, JavaScript, CSS & HTML5: A Step-by-Step Guide to Creating Dynamic Websites by Robin Nixon 3rd Edition
2) Beginning HTML5 and CSS3 For Dummies by Ed Tittel 1st Edition
3) Web Programming: Building Internet Applications by Chris Bates

Course Journals

1) International Journal of Web Engineering and Technology
2) A Practical Approach to Teach Web Programming Course R. E. Margaret , A. M. Vinod , Tejonidhi M. R.
3) International Journal of Web Technology (IJWT) ISSN:2278-2389

Reference Textbooks

1) How to create Web sites and applications with HTML, CSS, Javascript, PHP and MySQL by Robert Nixon
2) Learning PHP, MySQL, JavaScript, CSS and HTML5 by Robin Nixon
3) PHP, MySQL, JavaScript & HTML5 All-in-One For Dummies by Steve Suehring and Janet Valade

Reference Journals

1) The Multi-Disciplinary International Journal Devoted to the Study and Promotion of World Development
2) International Journal of Web Engineering and Technology
3) International Journal of Web Engineering and Technology (Int J Web Eng Tech)

Approved by: _____ Signature: _____ Date: _____