SEMESTER	2
Paper Number	MCMS 4251
Paper Title	Internet Technologies
No. of credits	6
Theory / Composite	Practical
No. of periods assigned	Pr: 8 Tut: 2
Name of faculty member(s)	
Course description / objectives	On completion of this course, the students will be able to: 1. design and implement dynamic websites using XHTML, Cascading Style Sheets (CSS), JavaScript (JS) and PHP 2. gain knowledge of backend database handling using PHP/MySQL 3. have a good grounding of Web Application Terminologies, Internet Tools, E – Commerce and other web services.
Syllabus	HTML Preview, Forms: elements, attributes, actions and methods. CSS (Cascading Style Sheets) -Introduction, Benefits of CSS, CSS Syntax, Value Lengths and Percentages, Internal Style sheets, Inline and External Style sheets. CSS2-Selectors: ID Selectors, Class Selectors, Grouping Selectors, Descendant / Child Selectors, Attribute Selectors, CSS - Pseudo Classes CSS2- Color, Background and Cursor: background-image, background-repeat, background-position, linear and radial gradient, CSS Cursor CSS2-Text Fonts: color, background-color, text-decoration, text-align, vertical-align, text-indent, text-transform, letter-spacing, word-spacing, line-height, font-family, font-size, font-style, font-variant, font-weight. CSS2-Lists and Tables: list-style-position, list-style-image, list-style, CSS Tables. CSS2-Box Model: Borders & Outline, Margin & Padding, Height and width, CSS Dimensions. CSS2-Display Positioning and Floats: CSS Visibility, CSS Display, CSS Scrollbars, CSS Positioning (Static Positioning, Fixed Positioning, Relative Positioning, Absolute Positioning), Float property, Clear Property, Advanced CSS: CSS Images, Responsive CSS, CSS Effects, CSS Animations, CSS Media, CSS Slideshows. Java Script: Introduction in JS, DOM (Document Object Model), Function Call and return statements in JavaScript, Form Handling and Applications using JS. PHP: PHP introduction, important tools and software requirements (like Web Server, Database, and Editors). scope of PHP □ Basic Syntax, PHP variables and constants. Types of data in PHP, Expressions, scopes of a variable (local, global), PHP Operators. Handling HTML form with PHP: Capturing Form Data, GET and POST form methods, Dealing with multi value fields. Redirecting a form after submission. PHP conditional events and Loops: PHP IF Else conditional statements (Nested IF and Else), Switch case, while, For and Do While Loop Break, Continue and exit. PHP Functions: Need of Function, declaration and calling of a function PHP Function with arguments, Function argument with call by value, call by reference Scope of Function Global and Local. PHP String Manipulation: Creating and accessing String, Searching & Replacing String Formatting, joining and splitting String, String Related Library functions. Use of different string functions like strlen(), strrev(), strpos(), split() etc. PHP Arrays: Anatomy of an Array, creating index based and Associative array, Accessing array. Looping with Index based array, with associative array using each () and foreach (), Sorting Arrays. PHP Advanced Topics: PHP Date and Time, Browser and system configurations, Database connection and handling records using PHP and using MySQL. JSP: MVC (Model View Controller Architecture) JSP scripting elements, Servlets, JSP vs Servlets

	Introduction to WordPress
Reading/Reference Lists	1. Internet & World Wide Web How to Program, Deitel. 2. Web Technologies: HTML, JAVASCRIPT, PHP, JAVA, JSP, ASP.NET, XML and Ajax, Black Book. 3. PHP: The Complete Reference: Steven Holzner 4. HTML & CSS: The Complete Reference: Thomas Powell 5. PHP, MySQL & JavaScript All-in-One for Dummies: Richard Blum
Evaluation	Total – 100 CIA – 20 Semester Examination – 80