

SARDAR PATEL UNIVERSITY
Programme: MCA
Semester: IV
Syllabus with effect from: November 2014

Paper Code: PS04CMCA05	Total Credit: 4
Title Of Paper: Web Application Development Technology	

Unit	Description in detail	Weighting (%)
1	Markup Languages Introduction to HTML, WWW, W3C, Web Designing HTML tags, attributes, headings, paragraphs, formatting, styles, links, images, tables, lists, frames, fonts Introduction to DHTML, HTML Document Object Model (DOM) Introduction to Cascaded Style Sheets (CSS), types of style sheets (inline, external, embedded CSS), text formatting properties, uses of classes in CSS	
2	Client-side Scripting JavaScript basics – introduction, variables, operators, flow control statements JavaScript Document Object Model Working with forms Working with Windows and Frames	
3	Server-side Scripting using PHP-I Introduction to PHP – meaning, versions, basic syntax Introduction to MySQL Using MySQL and PHP Common PHP script elements – data types, Variables, Constants, operators, Flow Control and looping, strings, arrays, associative arrays, functions Working with Forms – Processing forms, Form validation Input validation, string manipulation, regular expression functions	
4	Server-side Scripting using PHP-II MySQL - database design, basic SQL commands of MySQL, accessing databases with PHP Reporting/Viewing data in WebPages from MySQL Addressing the stateless nature of HTTP – hidden form fields, cookies, sessions Security – Authentication (user logins), Authorization (Permissions) OOP programming with PHP, Error handling File and Directory Handling – Files and file access PEAR, Blogs, Forums	
5	Server-side Scripting using ASP.NET-I Introduction to ASP.NET ASP.NET Web Application Project – introduction, creation ASP.NET Web form - introduction, creating web forms ASP.NET Page – layout, lifecycle ASP.NET Controls - adding server controls to a Web Form, adding event procedures to Web Server Controls, Implementing code-behind pages Creating Master Pages, themes and skins, class libraries	
6	Server - side Scripting using ASP.NET - II Accessing Data with ADO.NET Validating user input – validation controls, page validation Site Navigation, Personalization Securing Web Application , ASP.NET configuration and Security, Membership	



	and Role Management Web Services – overview, creation and calling State Management, Packaging and Deploying ASP.NET Applications Creating ASP.NET AJAX application	
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Basic Text & Reference Books

- Ivan Bayross, “Web Enabled Commercial Applications Development using HTML, DHTML, Javascript, Perl CGI”
- PHP5 and MySQL Bible – Wiley Publishing Inc., First Edition, 2004, ISBN 81-265-0521-4, Time Converse and Joyce Park with Clark Morgan,
- Ivan Bayross, Sharanam Shah, “PHP5.1”, Second Edition, 2006, Shroff Publishers & Distributors Pvt. Ltd., 2006, ISBN -10 : 81-8404-075-x
- Danny Goodman, Machael Morrison , “JavaScript Bible”, 3rd edition
- Matthew MacDonald, “Beginning ASP.NET 3.5 in C# 2008”, 2nd Edition, Apress,
- Mathew MacDonald & Maria Szpuszta, “Pro ASP.NET 3.5 in C# 2008”, Second Edition, Apress, 2007
- Beginning PHP5, Apache, MYSQL web Development – Elizabeth Naramore, Wiley Publishing Inc.,
- G. Andrew Duthie, “ASP.NET programming with Microsoft Visual C#.NET Step by Step”, version 2003, Prentice-Hall of India
- Internet reference for the relevant topics

