



MCA
Semester IV

Course Code	PS04CMCA24	Title of the Course	Web Application Development Technology
Total Credits of the Course	4	Hours per Week	4

Main Focus of the Course outcomes	Employability	Skill Development	Entrepreneurship
	✓	✓	
Course Objectives:	1. To understand the ASP.NET Technology. 2. To understand the PHP programming concepts.		

Course Content		
Unit	Description	Weightage* (%)
1.	Markup Languages and Server-side Scripting using ASP.NET-I <ul style="list-style-type: none"> - Introduction to HTML, DHTML and CSS - 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 	25
2.	Server-side Scripting using ASP.NET-II <ul style="list-style-type: none"> - 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 	25





3.	<p>Server-side Scripting using PHP-I</p> <ul style="list-style-type: none"> - 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 	25
4.	<p>Server-side Scripting using PHP-II and Client-side Scripting</p> <ul style="list-style-type: none"> - 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 - JavaScript basics – introduction, variables, operators, flow control statements - JavaScript Document Object Model - Validations using JavaScript 	25

Teaching-Learning Methodology	Blended learning approach incorporating traditional classroom teaching as well as online / ICT-based teaching practices
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Evaluation Pattern		
Sr. No.	Details of the Evaluation	Weightage
1.	Internal Written / Practical Examination (As per CBCS R.6.8.3)	15%
2.	Internal Continuous Assessment in the form of Practical, Viva-voce, Quizzes, Seminars, Assignments, Attendance (As per CBCS R.6.8.3)	15%





3.	University Examination	70%
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Course Outcomes: Having completed this course, the learner will be able to

1.	gain knowledge on ASP.NET Technology.
2.	gain knowledge on PHP programming.

Suggested References:

Sr. No.	References
1.	Ivan Bayross, "Web Enabled Commercial Applications Development using HTML, DHTML, Javascript, Perl CGI".
2.	PHP5 and MySQL Bible – Wiley Publishing Inc., First Edition, 2004, ISBN 81-265-0521-4, Time Converse and Joyce Park with Clark Morgan,
3.	Ivan Bayross, Sharanam Shah, "PHP5.1", Second Edition, 2006, Shroff Publishers & Distributors Pvt. Ltd., 2006, ISBN -10 : 81-8404-075-x.
4.	Danny Goodman, MachaelMorrison , "JavaScript Bible", 3rd edition.
5.	Matthew MacDonald, "Beginning ASP.NET 3.5 in C# 2008", 2nd Edition, Apress,
6.	Mathew MacDonald & Maria Szpuszta, "Pro ASP.NET 3.5 in C# 2008", Second Edition, Apress, 2007.
7.	Beginning PHP5, Apache, MYSQL web Development – Elizabeth Naramore, Wiley Publishing Inc.,
8.	G. Andrew Duthie, "ASP.NET programming with Microsoft Visual C#.NET Step by Step", version 2003, Prentice-Hall of India.

On-line resources to be used if available as reference material

1.	Internet reference for the relevant topics.
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Vallabhnagar, Gujarat

(Recognized with 'A' Grade by NAAC (CGPA 3.25))

SARDAR PATEL UNIVERSITY

Syllabus with effect from the Academic Year 2018-2019

