AND THE LOCAL PROPERTY OF THE PARTY OF THE P

SARDAR PATEL UNIVERSITY

Vallabh Vidyanagar, Gujarat

(Reaccredited with 'A' Grade by NAAC (CGPA 3.25) Syllabus with effect from the Academic Year 2021-2022

MCA (Master of Computer Applications) MCA (Master of Computer Applications) Semester II

| Course Code | PS02CMCA53 | Title of the Course | WEB TECHNOLOGY |
|-----------------------------|------------|---------------------|----------------|
| Total Credits of the Course | 4 | Hours per Week | 4 |

| applications using HTML5, CSS3 and JavaScript.4. To learn to develop dynamic database-driven websites using PHP. | | Course Objectives: | To learn the fundamentals of how the World Wide Web works. To learn the basic protocols and standards of the World Wide Web. To learn design and development of websites and web-based applications using HTML5, CSS3 and JavaScript. To learn to develop dynamic database-driven websites using PHP |
|---|--|-----------------------|---|
|---|--|-----------------------|---|

| Course Content | | |
|----------------|--|------------|
| Unit | Description | Weightage* |
| 1. | Client-side Web Technologies - I Introduction to HTTP and HTML5 URL format HTML5 document structure Headers, body, declarations Elements, element ID, name, attributes, events HTML5 media Forms HTTP Verbs Introduction to the DOM Introduction to CSS3 CSS3 Syntax Different properties, values and units Specifying colors | 25 |
| 2. | Client-side Web Technologies - II CSS3 selectors, classes CSS3 precedence rules Introduction to media query Introduction to JavaScript JavaScript syntax Variables: declaration, data type Strings, numbers, arrays Operators Functions Variable scope | 25 |





SARDAR PATEL UNIVERSITY

Vallabh Vidyanagar, Gujarat

(Reaccredited with 'A' Grade by NAAC (CGPA 3.25) Syllabus with effect from the Academic Year 2021-2022

| | Event handling Client-side form validation DOM access and manipulation from JavaScript Built-in objects | |
|----|---|----|
| 3. | Server-side Web Development Using PHP – I Introduction to server-side scripting Introduction to PHP Data types, variables, constants, operators Flow Control and looping Strings, arrays, functions Regular expressions, server-side input validation Superglobals Headers Handling file uploads Maintaining state: sessions, cookies, query parameters, hidden fields File handling | 25 |
| 4. | Server Side Web Development Using PHP – II Introduction to MySQL Database Connectivity in PHP Exception handling Security - authentication and authorization Handling special characters in input SQL injection attacks and prevention Introduction to object-oriented programming with PHP | 25 |

| _ | Blended learning approach incorporating traditional classroom teaching as well as online / ICT-based teaching practices |
|---|---|
|---|---|

| Evalu | 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% | |



PATEL VI

SARDAR PATEL UNIVERSITY

Vallabh Vidyanagar, Gujarat (Reaccredited with 'A' Grade by NAAC (CGPA 3.25) Syllabus with effect from the Academic Year 2021-2022

| Course Outcomes: Having completed this course, the learner will be able to | | |
|--|--|--|
| 1. | know of the fundamentals of how the World Wide Web works. | |
| 2. | know of the basic protocols and standards of the World Wide Web. | |
| 3. | design and develop web pages using HTML5 and CSS3. | |
| 4. | have knowledge of JavaScript and client-side web development. | |
| 5. | create HTML forms. | |
| 6. | have knowledge of PHP. | |
| 7. | carry out server-side web development using PHP. | |
| 8. | create dynamic website utilizing data from a database. | |
| 9. | carry out state management and implement basic security in a website or web application. | |

| Suggested References: | | |
|-----------------------|--|--|
| Sr. No. | References | |
| 1. | John Dean, "Web Programming with HTML5, CSS, and JavaScript", Publisher(s): Jones & Bartlett Learning, 2018, ISBN: 9781284091809. | |
| 2. | Robin Nixon, Learning PHP, MySQL, JavaScript, CSS & HTML5, O'Reilly. | |
| 3. | Time Converse and Joyce Park with Clark Morgan, PHP5 and MySQL Bible – Wiley Publishing Inc., First Edition, 2004, ISBN 81-265-0521-4. | |
| 4. | Steve Suehring Tim Converse Joyce Park: PHP6 and MySQL Bible - Wiley Publication. | |
| 5. | Elizabeth Naramore, Beginning PHP5, Apache, MYSQL web Development, Wiley Publishing Inc. | |
| 6. | Danny Goodman, Machael Morrison, "JavaScript Bible", 3rd edition. | |

| On-lin | e resources to be used if available as reference material |
|--------|---|
| 1. | HTML documentation. |





SARDAR PATEL UNIVERSITY

Vallabh Vidyanagar, Gujarat

(Reaccredited with 'A' Grade by NAAC (CGPA 3.25) Syllabus with effect from the Academic Year 2021-2022

| 2. | CSS documentation. |
|----|---------------------------|
| 3. | JavaScript documentation. |
| 4. | PHP documentation. |

