



Subject Code: 09CT0405
Subject Name: Web Technology
Diploma Year – II (Semester IV)

Diploma Branches in which this subject is offered: Information & Communication Technology

Objective: To acquire knowledge and skills for creation of web site considering both client and server side programming. To gain ability to develop responsive web applications. Increasing use of Internet and web encourage everyone to use web solution. Web technology is the bridge between end-user devices like computer/mobile communication with each other. To create dynamic web site and web portal it involves the use of web language like HTML, CSS, Javascript and PHP with codeIgniter framework. This subject will attempt to give you a basic understanding of various aspects of web technologies.

Credits Earned: 2 Credits

Course Outcomes: After completion of this course, student will be able to

- Understand fundamental of web design and web development by using HTML tagging techniques.
- Understand the concepts of web technology in designing static and dynamic web pages.
- Design/Develop interactive web pages incorporating validation techniques using JavaScript.
- Build Dynamic web site using server side PHP Programming and MySQL Database connectivity.
- Understand concept of different framework of PHP to develop optimize web pages.

Pre-requisite of course: Programming Fundamentals

Teaching and Examination Scheme

Teaching Scheme (Hours)			Credits	Theory Marks			Tutorial/ Practical Marks		Total Marks
Theory	Tutorial	Practical		ESE	IA	CSE	Viva	Term work	
0	0	4	2	0	30	20	25	25	100



Contents:

Un it	Topics	Contact hours	Weightage (%)
1	<p>Overview Of HTML: Browser Architecture and website structure, HTML events, HTML Forms, Overview and features of HTML 5.</p> <p>Overview Of CSS: Need for CSS, Basic structure of CSS, Gradients, Shadow effects, transformation, transition and animations, etc. CSS flex, media queries. Overview of CSS, CSS2 and features of CSS3.</p>	08	10
2	<p>Java Script: Client side scripting with JavaScript, JavaScript function, Form validation, Pop up boxes.</p> <p>Advance JavaScript: JavaScript and objects, JavaScript own objects, the DOM and web browser environments, Manipulation using DOM, forms and validations, DHTML:Combining HTML, CSS and Javascript, Events and buttons.</p> <p>jQuery: Introduction to jQuery, jQuery syntax, selectors, events, effects, jQuery HTML, Access / Manipulate web browser elements using jQuery.</p>	14	18
3	<p>PHP: Introduction and basic syntax of PHP, decision and looping with examples, PHP and HTML, Arrays, Functions, Browser control and detection, string, Form processing, Files, Advance Features: Cookies and Sessions.</p>	16	24
4	<p>PHP and MySQL: Basic commands with PHP examples, Connection to server, creating database, selecting a database, listing database, listing table names, creating a table, inserting data, altering tables, queries, deleting database, deleting data and tables, PHP myadmin and database bugs</p>	10	24
5	<p>Latest Trends in PHP: Overview of Laravel, Laravel Application Structure, Introduction to WordPress, WordPress Dashboard, Overview of Joomla, Joomla Architecture, Application Of Joomla</p>	08	24
TOTAL HOURS		56	100



Suggested List of Experiments:

Sr. No.	Unit No.	Name of Topics
1	1	Create a web page using tags of html, h1, h2, center, font, body, head with respective attribute to display details related to your college.
2	1	Create a web page using three types of List, Paragraph and Link tags.
3	1	Create internal style sheet which demonstrate table, input field and headings.
4	1	Create a login form in HTML which have text fields like email, password and One combo box for user type either ADMIN or MEMBER. Validate all fields For NOT NULL.
3	1	Create a web page using Frameset, Frame with rows and columns both.
4	2	Write a javascript to validate mobile number and email inputted by user
5	2	Demonstrate all three types of dialog box of JavaScript (Alert, Confirm, and Prompt) which will be prompted over validation of password, must be length between 8 to 14, contain single digit, special character minimum.
6	2	Use the on() method to attach a click event handler to all <p> elements using jQuery.
8	3	Create two php forms. 1. Take username, surname and phone number from user and write that data in a notepad file. 2. Give READ button on browser, if user will click on that button then display all contents of notepad file which has been created through first file.
9	3	Create a php program that will display a current date and time in GMT format.
10	3	Write HTML and PHP program to read and store student information such as enrolment-no, name, semester and percentage from database table. Output the data to a webpage in tabular format.
11	3	Demonstrate php function with argument and with return type through a php Program.
12	3	Advance PHP (Management of session and cookies)-Implement Admin login/logout functionality using cookie and session wherever required.
13	4	Create Registration form with routing and controller.
14	4	Create small web application with PHP and MySQL database.

Student Activity:

Complete online course and get certificate of “Web Technology” under Online Programming Certification.



Marwadi
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Faculty of Diploma studies
Information and Communication
Technology



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Instructional Method:

- a) The course delivery method will depend upon the requirement of content and need of students. The teacher in addition to conventional teaching method by black board, also need to use ICT tools and facilities.
- b) The internal evaluation will be done on the basis of continuous evaluation of students in the laboratory and class-room..
- c) Practical examination will be conducted at the end of semester for evaluation of performance of students in laboratory.

References

1. Black Book, HTNL 5, Dreamtech Press.
2. Black Book, Web Technologies, Dreatech Press.
3. Ralph Moseley and M.T. Savaliya, Developing Web Applications, Wiley-India.
4. Cody Lindley, jQuery Cookbook, O'Reilly Media.
5. Ryan Benedetti, Roman Cranley, Head First jQuery – A Brain- Friendly Guide, O' Reilly Media.

Suggested Resources

Students will use supplementary resources such as online videos, NPTEL videos, e-courses, Virtual Laboratory.

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| a) http://nptel.ac.in | d) http://www.tutorialspoint.com/ |
| b) http://www.w3schools.com/ | e) https://www.codeigniter.com/ |
| c) http://getbootstrap.com/ | f) https://www.phptpoint.com/ |