

COURSE TITLE	INFORMATION TECHNOLOGY FOR FINANCE
COURSE CODE	05MF0103
COURSE CREDITS	4

Objective:

- 1 To understand about Web Technology and HTTP Architecture front end language
- 2 To impart a thorough understanding Designing of Web Pages and Frame work
- 3 To understand about Java Script Variables & Data types, PHP Variables & Data Types
- 4 To learn about PHP Methods with its examples, Database and create table
- 5 To design front page of website.

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

- 1 Students will be proficient in utilizing HTML tags and structures for creating basic web pages, including formatting, images, lists, and tables.
- 2 Students will gain expertise in designing visually appealing and responsive web pages using CSS, including grid layout design and utilizing Bootstrap classes
- 3 In this course students will be able to learn the basics of back-end development using PHP, including variable handling, conditional statements, loops, functions, and arrays
- 4 Students will be capable to apply knowledge gained throughout the course to create interactive and database-driven web solutions, addressing real-world scenarios and challenges
- 5 Student will able to build a dynamic e-commerce website using PHP and MySQL.

Pre-requisite of course:NA

Teaching and Examination Scheme

Theory Hours	Tutorial Hours	Practical Hours	ESE	IA	CSE	Viva	Term Work
2	0	4	50	30	20	0	50

Contents : Unit	Topics	Contact Hours
1	Web Technologies, Module of HTML & Designing of web pages and Frame work Introduction of web technology., HTTP Architecture front end language, Introduce HTML Tags and Structure (basic tag) Its Uses etc., formatting tag Its Uses etc., Image tag and list tag, Table tag and its attribute and its uses etc., Form tag and its designing, Form tag types, Introduction of CSS and ways of using CSS,, Grid layout design with CSS, Introduction To The Bootstrap And Its Classes, Make website Responsive, Web pages making	15

Contents : Unit	Topics	Contact Hours
2	Java Script & PHP with database Introduction To JavaScript, JavaScript Variables And Data Types, JavaScript Function Introduction., Back-end Technology Introduction, PHP. Echo Statement Introduction., PHP Variables and Data Types., PHP Conditional Statements If, Else etc., PHP Loops for, While, Do while, PHP Function and Its Types, PHP Array Introduction PHP Index array And Associate Array., PHP Methods And Its Examples, Introduction of database and create table, Operation on Data Base add, Operation on Data Base Delete and Update	15
Total Hours		30

Suggested List of Experiments:

Contents : Unit	Topics	Contact Hours
1	Unit1 Design a basic contact form using HTML form elements. Include fields for name, email, subject, and message., Embed a YouTube video and customize its size and playback controls using HTML attributes., Develop a webpage showcasing your favourite vacation spots using HTML lists to organize the destinations., Create a webpage displaying a list of your favourite books using HTML tables to structure the information., Design a simple webpage about your favourite food, including images, descriptions, and a list of ingredients using HTML., Develop a simple webpage that explains the process of how the internet works, using diagrams or images and interactive elements to enhance understanding., Create a simple HTML webpage with basic structure and text content., Experiment with different HTML formatting tags and observe their effects on text, Embed images using the img tag and explore various attributes such as src, alt, height, and width., Introduce CSS to style HTML elements and experiment with inline, internal, and external CSS stylesheets.	30

Suggested List of Experiments:

Contents : Unit	Topics	Contact Hours
2	Unit 2 Create a responsive webpage layout using CSS grid or flexbox to adapt to different screen sizes., Document the development process of a web project, including requirements analysis, design decisions, implementation details, and testing strategies., Optimize web application performance by minifying CSS and JavaScript files, optimizing images, and implementing caching mechanisms., Test and debug web applications using browser developer tools, PHP error logs, and debugging techniques., Implement PHP conditional statements (if-else) to create dynamic content based on user input or conditions., Use PHP loops (for, while, do-while) to iterate over arrays or perform repetitive tasks., Integrate PHP with MySQL database by establishing database connections and executing SQL queries., Introduce PHP scripting language and set up a local development environment using XAMPP or similar tools., Write PHP scripts to handle form data submitted from HTML forms and display the results., Create an interactive webpage using JavaScript event handling to respond to user actions like clicks and mouse movements.	30
Total Hours		60

Textbook :

- 1 Web Development and Design Foundations with HTML, CSS, and JavaScript, Terry Felke-Morris, Pearson, 2021

References:

- 1 HTML and CSS: Design and Build Websites, HTML and CSS: Design and Build Websites, Jon Duckett, Wiley, 2011
- 2 JavaScript and JQuery: Interactive Front-End Web Development, JavaScript and JQuery: Interactive Front-End Web Development, Jon Duckett, Wiley, 2014
- 3 PHP and MySQL Web Development, PHP and MySQL Web Development, Luke Welling and Laura Thomson, Addison-Wesley, 2008

Suggested Theory Distribution:

The suggested theory distribution as per Bloom's taxonomy is as follows. This distribution serves as guidelines for teachers and students to achieve effective teaching-learning process

Distribution of Theory for course delivery					
Remember / Knowledge	Understand	Apply	Analyze	Evaluate	Higher order Thinking / Creative
10.00	20.00	25.00	25.00	10.00	10.00

Instructional Method:

- 1 Board work
- 2 PPT
- 3 Demo

Supplementary Resources:

- 1 <https://www.w3schools.com/>
- 2 <https://developer.mozilla.org/en-US/docs/Web>