FULL STACK APPLICATION DEVELOPMENT

III Year – I Semester

Lecture	: 3	Internal Marks	: 30
Credits	: 3	External Marks	: 70

Course Objectives

- To develop web applications using Full stack technologies.

Course Outcomes

Upon successful completion of the course, the students will be able to

- design web pages using HTML5 and CSS3.
- develop dynamic web pages and perform form validations using Javascript.
- develop server side script to handle the given form data using JSP.
- perform CRUD operations on MySql database using PHP.
- perform various operations on constructing React elements with data.

Course Content

UNIT - I: HTML5 and CSS3

HTML5: HTML5 Document Structure, Basic HTML tags, Section elements, text, links, tables, images, forms.

CSS3: Evolution of CSS3, Syntax of CSS3, Types, Selectors, Background, Font, Text, Borders.

UNIT - II: Bootstrap and JavaScript

Bootstrap: Introduction to Bootstrap, Structure of the page, Typography, Forms.

Java Script: Introduction to Javascript, variables, primitive data types, control flow statements, Built-in objects, arrays, functions, event handling, DHTML - Object model.

JQuery: Working with JQuery

UNIT - III: JSP

JSP architecture, Life Cycle, Creating Simple JSP Pages, JSP Basic tags, Implicit Objects.

JDBC: Introduction to JDBC, JDBC architecture, JDBC Drivers, Database Connectivity, CRUD operations.

UNIT - IV: PHP

Introduction, Creating and running a PHP script, variables, constants, data types, arrays and functions, Reading and processing data from web form controls.

MySql: Connecting to MySql server using PHP, creating new database and tables, reading and displaying table data, Inserting, deleting and updating records in database table using PHP.

UNIT - V: ReactJS

Components in React, Styling in React, Creating Complex Components, Transferring Properties, Dealing with States, Going from Data to UI, Working with events.

Text Books

1. HTML5 Black Book, Dream Tech Publisher.
2. Web Technologies, Black Book, DreamTech Publisher, 2017

Reference Books

1. Kirupa Chinnathambi, Learning React , Addison Wesley ,2017.
2. Jorge Krause, Introducing Bootstrap 4 , Apress Publisher,2016
3. Riaz Ahmed, "Full Stack Web Development For Beginners", Atlantic Publishers and Distributors.

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