

KIET Group of Institutions, Ghaziabad

Department of Computer Applications

(An ISO – 9001: 2008 Certified & 'A' Grade accredited Institution by NAAC)

KCA021: Web Technology

UNIT-I (8)

Web Page Designing: Introduction and Web Development Strategies, History of Web and Internet, Protocols Governing Web, HTML-Introduction, HTML Tags, HTML-Grouping Using Div & Span, HTML-Lists, HTML-Images, HTMLHyperlink, HTML-Table, HTML-Iframe, HTML-Form, Introduction of CSS, CSS Syntax, External Style Sheet using < link >, Multiple Style Sheets, Value Lengths and Percentages, CSS-Selectors, CSS-Box Model, Floats, Clear, Introduction to Bootstrap.

UNIT-II (8)

Scripting: Introduction to JavaScript, Creating Variables in JavaScript, Creating Functions in JavaScript, UI Events, Returning Data from Functions, Working with Conditions, looping in JavaScript, Block Scope Variables, Working with Objects, Creating Object using Object Literals, Manipulating DOM Elements with JavaScript

UNIT-III (8)

Web Application development using JSP & Servlets: Servlet Overview and Architecture, Interface Servlet and the Servlet Life Cycle, Handling HTTP get Requests, Handling HTTP post Requests, Redirecting Requests to Other Resources, Session Tracking, Cookies, Session Tracking with Http Session. Java Server Pages (JSP): Introduction, Java Server Pages Overview, A First Java Server Page Example, Implicit Objects, Scripting, Standard Actions, Directives, Custom Tag Libraries.

UNIT-IV (8)

Spring: Spring Core Basics-Spring Dependency Injection concepts, Introduction to Design patterns, Factory Design Pattern, Strategy Design pattern, Spring Inversion of Control, AOP, Bean Scopes- Singleton, Prototype, Request, Session, Application, WebSocket, Auto wiring, Annotations, Life Cycle Call backs, Bean Configuration styles

UNIT-V (8)

Spring Boot: Spring Boot- Spring Boot Configuration, Spring Boot Annotations, Spring Boot Actuator, Spring Boot Build Systems, Spring Boot Code Structure, Spring Boot Runners, Logger, BUILDING RESTFUL WEB SERVICES, Rest Controller, Request Mapping, Request Body, Path Variable, Request Parameter, GET, POST, PUT, DELETE APIs, Build Web Applications.

REFRENCES:

- 1. Burdman, Jessica, "Collaborative Web Development" Addison Wesley
- 2. Xavier, C, "Web Technology and Design", New Age International
- 3. Ivan Bayross," HTML, DHTML, Java Script, Perl & CGI", BPB Publication
- 4. Bhave, "Programming with Java", Pearson Education
- 5. Hans Bergsten, "Java Server Pages", SPD O'Reilly
- 6. Naughton, Schildt, "The Complete Reference JAVA2", TMH 8. Craig Walls, "Spring Boot in Action"