Banasthali Vidyapith
Department of Computer Science
Course Handout: B.Tech. (IT)-VI Semester, December 2022-May 2023

Date: 28-12-2022

Course Code: IT 302L   **Course Name : Internet & Web Technology Lab**

Credit Points: 2   **Max. Marks : 100 (CA: 40+ ESA: 60)**

Course Instructor: Mr. Sushil Buriya, Assistant Professor, Computer Science

Learning Outcomes: On successful completion of the course students will be able to
- Design web pages containing tables, images and links using HTML and CSS.
- Design web pages using DIV, Class and ID selector.
- Design dynamic web pages using JavaScript.
- Develop a server side java application called JSP to catch form data sent from client, process it and store it on database.

Suggested Books:

S1. Deitel, P., &Deitel, H. (2007). Internet & world wide web: how to program. Prentice Hall Press.

S2. Greenlaw, R., & Hepp, E. (2001). Inline/online: fundamentals of the internet and the world wide web. McGraw Hill Higher Education.

S3. Pekowsky, L. (2017). Java Server Pages. Addison Wesley.

S4. Fain, B. Responsive Web Design with HTML5 and CSS3. Packt Publishing Limited.

Suggested E-Learning Material:
1. HTML, CSS, and Javascript for Web Developers
    https://www.coursera.org/learn/html-css-javascript-for-webdevelopers

2. Internet Technology
    https://nptel.ac.in/courses/106105084/

Evaluation Scheme:

Component	Marks	Submission/ Examination Date(s)	Allotment/ Syllabus
Continuous Assessment	40	**	Course related topics
Semester Examination	60	16 April – 04 May, 2023*	Whole Syllabus

*Subject to change.

**Continuous assessment will be based on practical test(s)/ viva-voce/ minor project(s)/ any other component(s) as decided by the instructor(s) on regular basis.

Laboratory-Wise Plan (2 Hours/Laboratory):

Laboratory Number	Topics to be Covered
1	Create a web page using HTML heading, formatting, Paragraph.
2	Create a web page using HTML Lists, Quotations, and Images.
3	Create pages with HTML Audio, Video, and Blocks tags.
4	Link web pages using HTML link tag & HTML form creation.
5	Create web page layouts using HTML tables.
6	Design a static website using HTML.

Laboratory Number	Topics to be Covered
7-8	Design a web page using Font , Tables and Link in CSS and HTML
9	Design a web page using box model in CSS.
10-12	Designing a web page using Table, Border, Outline, Margin in CSS and HTML using id& class selector of CSS
13-14	Use of data types, variables, constant, Expression, operator in Java Script
15	Use of conditional statements & looping statements in Java Script
16-18	Java Script functions & DOM.
19	Creation of different forms with validation using JavaScript.
20	Creation of XML File and DTD
21	Creation and accessing JSON
22	Web page development with AJAX
23	Session and Cookies handling in JSP
24	Database connectivity in JSP
25	Web Application Development based on whole syllabus and web publishing.