BACHELOR OF COMPUTER APPLICATIONS (BCA_NEW)

ASSIGNMENTS

(January - 2026 & July - 2026)

MCS-206, BCSL-146, BCS-053, BCSL-147, BCS-041, BCOC-131,

SCHOOL OF COMPUTER AND INFORMATION SCIENCES

INDIRA GANDHI NATIONAL OPEN UNIVERSITY
MAIDAN GARHI, NEW DELHI – 110 068

Course Code	:	**BCSL-147**
Course Title	:	**Web Programming Lab**
Assignment Number	:	**BCA_NEW(IV)/L-147/Assignment/2026**
Maximum Marks	:	**50**
Weightage	:	**25%**
Last date of submission	:	**30ᵗʰ April, 2026 (For January Session)**
		31ˢᵗ October, 2026 (For July Session)

Note: This assignment has eight questions for a total of 40 marks. Answer all the questions. Each question carries 5 marks. Rest 10 marks are for viva voce. You may use illustrations and diagrams to enhance explanations.

Q1. HTML Basics

a) Write HTML code to create a web page with a colored background and a title displayed in a different color. **(2 Marks)**

b) Create an HTML document displaying personal details such as name, enrolment number, address, and contact information in a structured format. **(3 Marks)**

Q2. HTML Lists, Tables, and Formatting

a) Create an HTML page showing an ordered list and an unordered list with appropriate headings.
(3 Marks)

b) Design an HTML table with multiple rows and columns, including the use of dummy data. **(2 Marks)**

Q3. Advanced HTML – Frames and Navigation

a) Explain how browsers handle web pages when frame support is not available. **(2 Marks)**

b) Write HTML code to design a web page divided into frames, where one frame contains links and the other displays the corresponding content. **(3 Marks)**

Q4. HTML Forms

a) Design a simple HTML form to accept user details such as name and enrolment number. **(2 Marks)**

b) Explain the purpose of hidden fields in forms and demonstrate their use with an example scenario.
(3 Marks)

Q5. JavaScript Fundamentals

a) Write a JavaScript program that prompts the user for their name and displays a welcome message.
(2 Marks)

b) Write a JavaScript program to evaluate basic arithmetic expressions and display the results. **(3 Marks)**

Q6. JavaScript Events and Validation

a) Write a JavaScript program to change the color of text dynamically based on user interaction.

(2 Marks)

b) Design a JavaScript-based form validation script that checks for empty input fields and alerts the user.

(3 Marks)

Q7. XML and CSS Concepts

a) Create a simple XML document to store structured data and explain its components.   **(2 Marks)**

b) Explain how Cascading Style Sheets (CSS) can be used to enhance the presentation of HTML pages.

(3 Marks)

Q8. Server-side Technologies (JSP / PHP Concepts)

a) Explain how JSP or Servlet technology processes data submitted through an HTML form.   **(2 Marks)**

b) Describe the role of databases in dynamic web applications and explain how user authentication can be implemented.   **(3 Marks)**