Sheikh Zayed Islamic Centre
University of the Punjab, Lahore
Course Outline

Programme	BS Islamic Studies	Course Code	IND-304	Credit Hours	3
Course Title	**Web Development**			**Semester**	VI

Course Introduction
The course on Web Development provides a comprehensive introduction to the design, development, and maintenance of websites and web applications. Students will learn key web technologies such as HTML, CSS, JavaScript, and various web development frameworks. The course covers topics ranging from the fundamentals of web design to the creation of dynamic, interactive web applications. Participants will gain hands-on experience in building and deploying websites, equipping them with the skills and knowledge required for modern web development.

Learning Outcomes
By the end of this course, students can describe and understand the structure and functionality of the World Wide Web, create web pages using a combination of HTML, CSS, and JavaScript, apply essential programming language concepts when creating HTML forms, select an appropriate web hosting service, and publish your web-pages for the world to see. Finally, you'll be able to develop your own personal or business websites

Course Content
Week 1: Introduction to Web Development Understanding the Web Development Ecosystem Role of a Web Developer Overview of Web Technologies
Week 2: HTML Fundamentals Introduction to HTML HTML Document Structure Creating Your First Web Page
Week 3: Working with HTML Elements HTML Basic Formatting Tags Grouping Content Using **<div>** Creating Lists in HTML
Week 4: Adding Images and Hyperlinks and Designing Tables Inserting Images in HTML Creating Hyperlinks Building Navigation Menus Designing Tables

Building Forms for User Interaction
Handling Form Data

Week 5: Introduction to CSS
Understanding Cascading Style Sheets
Styling HTML Elements
CSS Selectors and Properties

Week 6: Advanced CSS
Mastering Text Properties
CSS Box Model
Creating Layouts with CSS
Media Queries and Responsive Design
Flexbox and Grid Layout
Responsive Navigation Menus

Week 7: Introduction to JavaScript
Basics of JavaScript
Using Variables and Data Types
Conditional Statements and Loops
JavaScript Libraries and Frameworks
Exploring JavaScript Libraries (e.g., jQuery)
Introduction to Front-End Frameworks (e.g., React, Angular)
Building Interactive Web Applications

Week 8: Mid Term Exam

Week 9: Working with Functions
Creating Functions
Handling Events with JavaScript
Interactive Web Pages

Week 10: Document Object Model (DOM)
Understanding the DOM
Manipulating Web Page Content
Handling User Interactions

Week 11: Asynchronous Programming
Introduction to Asynchronous JavaScript
Making API Requests
Handling Data Using Promises

Week 12: Version Control and Collaboration
Introduction to Git and GitHub
Collaborative Development
Managing Code Repositories

Week 13: Web Hosting and Deployment
Choosing a Web Hosting Service
Uploading and Deploying Your Website
Domain Management

Week 14: Revision

Week 15: Presentation/ Project Submission & Presentation
Week 16: Final Term Exam

Textbooks/ Reading Material
1. Jon Duckett, "HTML and CSS: Design and Build Websites" 2. Jennifer Niederst Robbins, "Learning Web Design: A beginner's guide to HTML, CSS, Javascript, and Web Graphics"

Teaching Learning Strategies
Throughout the courses, lectures and cooperative learning methods will be used. Students will work in small groups, discuss class readings, emphasize interaction with ideas, and come up with questions that will lead the discussion toward deeper understanding of the readings.
Assignment Types and Numbers
Class Participation, Minor and Major Assignments **Major Assignments:** 1. Analysis of Articles Based on Academic Writing Standards Discussed in the Classroom. 2. Research Proposal Writing 3. Book/Article Review
Assessment and Examination

Sr. No.	Elements	Weightage	Details
1.	Midterm Assessment	35%	Written Assessment at the mid-point of the semester.
2.	Formative Assessment	25%	Continuous assessment includes Classroom participation, assignments, presentations, viva voce, attitude and behavior, direct activities, short tests, projects, practical, reflections, readings, quizzes etc.

3.	Final Assessment	40%	Written Examination at the end of the semester. It is mostly in the form of a test, but owing to the nature of the course the teacher may assess their students based on term paper, research proposal development, field work and report writing etc.