

CS-324: Web Application Development

Course Teacher: *Khalid Saleem (Spring 2024)*

[\[Objectives\]](#) [\[Lecture Schedule\]](#) [\[Assessment\]](#) [\[Recommended Readings\]](#)

Aims & Objectives

Pre-requisite courses studied – Information Communication Technology, Problem Solving and Programing, Data Structures and Database Systems.

The objective of the course is to disseminate the programing techniques required to create a working web site, supported by a database. The idea is to make a student understand the theoretical aspects of the web application development along side.

Lecture Schedule

Week	Topic Description	
1	Data, Web and Web Applications Website – Characteristics and Features	marvelapp
2	Website Content, Website Components and Graphics	
3	Document Object Model, HTML Elements Software Requirements Specification for Web App	
4	Website Design and Coding HTML Forms and Input Validation	
5	Cascading Style Sheet and OOP approach Sessional 1	
6	JavaScript and OOP approach	
7	Event Driven Programing – JavaScript, CSS and React	
8	PHP and File Management	

9	Backend DBMS and PHP, Database Connectivity, Session Management, Input Validation	
10	Assignment Checking (Coding) Sessional 2	
11	PHP Extended, Laravel / Yii 2.0	
12	Design Patterns - MVC framework Bootstrap Framework	
13	Student Presentations of Complete Website (Front End, Business Logic and Back End)	
14	Introduction to Advance Topics : <u>TypeScript</u> AJAX	
15	<u>Functional</u> Coding, TypeScript/PHP	
16	<u>Vue.JS</u>	

Office Hours

Assessment

Quizzes : 5 Marks

Assignments: 10 + 10 (Presentation & Q/A – Individual Student) = 20 Marks

Midterm : 25 Marks

Students :

Terminal: 50 Marks

Recommended Readings

- 1. Website Creation Course By TimWinston
- 2. Front-End Web Development
- 3. W3Schools (For quick syntax checking)