FAST-NU, Lahore Fall 2019

Web Programming (CS 406)

Course Outline

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Objectives:

The course is focused on the fundamental concepts of web architecture and programming. It also provides insight into modern practices as far as web programming is concerned. The course is aimed towards beginners who have basic knowledge of programming but do not have any prior experience in web development. They will be taught basics of client and server-side programming and later introduced to modern practices such as Ajax and Web Services.

Prerequisites:

Computer Programming, Databases

Outline:

Week	Topics	Lectures
1	 Introduction and overview Components of the Web Architecture Web Technologies and Architecture Overview 	2
2-4	Client-side Programming HTML CSS Javascript language and frameworks Cross browser compatibility Responsive UI design	6
5 – 8	Server-side Programming	8
9 – 12	 Advanced Web Technologies Adding a dynamic front-end with AngularJS Managing authentication and user sessions XML AJAX Search Technologies 	8
13 – 14	Building a Single Page Application • SPA using AngularJS	3
14	Final Project Evaluation	1

Assessment

Assignments	10 %
Quizzes	10 %
Mid Term	25 %
Project	15 %
Final	40 %
Total	100