Course Number	CS 221	Course Title	Introd Comp	luction to Inte uting	ernet and Mot	oile
Semester Hours	4	Course Coordinator FA24	SMN	Nahian Al Sunny		
Catalog Description FA24	As a preparation course for students to prepare for higher level core curricula, this course provides a comprehensive introduction to a broad range of fundamental computer system concepts and principles. Coverage includes fundamentals of network, internet, and world-wide-web; client-side web application development; core Linux/Unix systems concepts and tools used for server-side applications; and Android App development.					
Textbooks						
None, all instructional material is available online.						
References						
Course Learning Outcomes						
 Providing students with an introduction to web application development using HTML/CSS/JavaScript and Linux as a major server-side operating system. Introducing students to mobile device application development. Improving students' familiarity with the practical elements of software development, which should improve their programming skills for all higher level courses and their future careers. 						
Assessment of the Contribution to Student Outcomes						
Outcome →	1	2	3	4	5	6
Assessed →	Х	X				Х
Prerequisites by Topic						
CS 202 with grade of C or better.						

CS 221

Introduction to Internet and Mobile Computing

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Major Topics Covered in the Course

- 1. Introduction to internet computing
 - How the web works
 - Client-server architecture
- 2. Introduction to web development
 - HTML Basic elements, tables, forms, multimedia etc.
 - CSS Styling formats, selectors, classes, common properties
 - JavaScript variables, functions, accessing and manipulating HTML/CSS elements
- 3. Introduction to the Linux/Unix environment
 - Software installation and management
 - Linux command line and frequently used commands
 - Basic shell scripting
 - Editors: Emacs, Vi, etc.
- 4. Android Application Development
 - Android platform architecture and Software Development Kit (SDK)
 - Using GUIs and custom views
 - Integrating content provider connections
 - Understand bound and unbound services
 - Notification, alarms, and camera services
 - Accessing and managing Internet resources and web services

Latest Revision: Fall 2024