

University of Engineering and Technology Lahore

Section Course Outline Report

Department: Electrical Engineering

Printed Date: April 25, 2025

Section Course Detail	
Semester	SPRING 2025
Department	Electrical Engineering
Section	A
Subject Title	AI-101 Applications of ICT
Subject Domain	Non-Engineering
Subject Knowledge	Professional Practice and Communication Tools
Contact	arsalanarahim@gmail.com

Measureable Student Learning Outcomes					
CLOs	Description	PLOs	Domain	Domain Level	Assessments
CLO1	Understand the basic principle, working, parts and evolution of Computers	PLO01	Cognitive	2. Understand	Quiz - 1, Midterm Exam, Midterm
CLO2	Understand the Working and Principle behind Web, Email, IOT, Cloud Computing and Big Data	PLO01	Cognitive	2. Understand	Midterm Exam, Midterm
CLO3	Understand the concept of Servers, Email, HTML basics & Communications	PLO01	Cognitive	2. Understand	Quiz - 2, Final Exam,
CLO4	Understand and Apply the Concept of Databases for Data Management in HTML Basics	PLO03	Cognitive	3. Apply	Quiz - 3, Final Exam, Basic

Class Timings

Grading Policy
Quiz - 1 6.0
Midterm Exam 30.0
Quiz - 2 6.0
Quiz - 3 6.0
Final Exam 40.0
Assignments 6.0
Basic Server Project 6.0

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Section Content		
Week (Lec)	Topics	CLO's
week1	Understanding of the Basic number System such as Decimal, Binary, Octal and Hexadecimal Number System and their Conversions	CLO1
week2	Working of the RAM, ROM & Basic Parts of a Computer Explaining the Main Basic Parts of a Computer	CLO1
week3	Main Basic Peripherals & Peripherals of the Computer such as Ethernet, Video output, USB, SATA, IDE, Keyboard, Mouse and Other Peripherals Connected to the Computer	CLO1
week4	Discuss the Main Components of a Microprocessor and its Evolution throughout History	CLO1
week5	Discuss the working of a Microprocessor, RAM, ROM and peripherals and the Basic Fetch_decode_Execute Path of the Computer to Perform Operation. Basic Difference between Architectures	CLO1
week6	Explain the Components of Ethernet, LAN, WAN, Internet and Router, and Fiber optics	CLO2
week7	Explain the working of Email, Server and HTML Working	CLO2
week8	Explain the Working and Usage of Big Data with Respect to Different Companies and its Attributes	CLO2
week9	Understand the Working of Browser, HTML and Local host Server with live Examples in Class	CLO3
week10	Introduce the basics of HTML language, tags, Links, buttons	CLO3

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Week (Lec)	Topics	CLO's
week11	Introduction of Cascaded Style Sheet Formatting for HTML webpage server with some Basic Properties	CLO3
week12	Introduction to Form Submission & Checks on Forms to validate Data	CLO3
week13	Introduction to Database, Tables, rows, Queries & SQL Databases	CLO4
week14	Introduction to mySQL & Database Creation linked with HTML Web Form	CLO4
week15	Submission & Retrieval of Data in Presentable form from Database in a HTML WebPage	CLO4
week16	Introduction to Cloud Computing & Database Softwares	CLO4