



MONAD UNIVERSITY

School of Engineering and Technology

Department of Computer Science Engineering

SCHEME, CURRICULUM AND SYLLABUS

Ph.D. - Five – Years

Effective from 2023-24

SUB: Recent trends in Computer Application/Recent trends in Computer Science

PAPER CODE: RCW-4-17

Course Code: - RCW-4-17

Course Name: - Recent trends in Computer Application/Recent trends in Computer Science

UNITS	CONTENTS	Contact Hrs.
I	Introduction to Programming Language History, Structures of 'C' Programming, Function as building blocks. Language Fundamentals Character set, C Tokens, Keywords, Identifiers, Variables, Constant, Data Types, and Comments.	7
II	. Introduction to Computers Introduction, Characteristics of Computers, Block diagram of computer. Types of computers and features, Mini Computers, Micro Computers, Mainframe Computers, Super Computers, Types of Programming Languages (Machine Languages, Assembly Languages, High Level Languages). Data Organization, Drives, Files, Directories. Types of Memory (Primary And Secondary) RAM, ROM, PROM, and EPROM. Secondary Storage Devices (FD, CD, HD, Pen drive) I/O Devices (Scanners, Plotters, LCD, Plasma Display)	8
III	Introduction: Origins of computer Graphics, Display Device – General purpose Graphics Software, display of solids object.	5
IV	Introduction To Software Engineering: Basics of Software Engineering, Need for software Engineering ,Definition, Software Evolution, Software Characteristics, Program versus Software Products, Benefits of Software Engineering. Software Development Life cycle: Requirement Analysis, Design, Coding, Testing, and Maintenance	7
V	INTERNET: Introduction: Definition of Internet – History of Internet - Networking Models : OSI Networking Model – TCP/IP networking model - Packet Switching - Accessing the Internet : Dial-up connection – SLIP / PPP protocols ; Internet service providers – ISDN Service – Direct ISP Service through leased line – Modem - Cable Modem – Internet tools – Search Engines – web browser.	10

