



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: Computer Applications

PAPER CODE: RCW-02

Course Code: RCW-02

Course Name: - Computer Applications

UNITS	CONTENTS	Contact Hrs.
I	Documentation Using MS-Word - Introduction to Office Automation, Creating & Editing Document, Formatting Document, Auto-text, Autocorrect, Spelling and Grammar Tool, Document Dictionary, Page Formatting, Bookmark, Advance Features of MS-Word-Mail Merge, Macros, Tables, File Management, Printing, Styles, linking and embedding object, Template.	5
II	Electronic Spread Sheet using MS-Excel - Introduction to MS-Excel, Creating & Editing Worksheet, Formatting and Essential Operations, Formulas and Functions, Charts, Advance features of MS-Excel-Pivot table & Pivot Chart, Linking and Consolidation, Database Management using Excel-Sorting, Filtering, Table, Validation, Goal Seek, Scenario.	5
III	Presentation using MS-PowerPoint: Presentations, Creating, Manipulating & Enhancing Slides, Organizational Charts, Excel Charts, Word Art, Layering art Objects, Animations and Sounds, Inserting Animated Pictures or Accessing through Object, Inserting Recorded Sound Effect or In-Built Sound Effect.	5
IV	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)	10
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.	7