Course on Computer Concepts [CCC]

Objective:

The course is designed to equip a person to use computers for professional as well as day to day use. It provides theoretical background as well as in depth knowledge of Software/ packages. After completing the course, the incumbent will be digitally literate and will be able to:

- Acquire confidence in using computers in Office and General Life;
- Will be able to identify the basic components of computers and terminology;
- Understand file management;
- Create documents using word processor, spreadsheet & presentation software;
- Understand computer networks, and browse the internet, content search, email and collaborate with peers;
- Use e-Governance applications; and use computer to improve existing skills and learn new skills
- Understanding Social Networking platform
- Using internet for Digital Financial services
- Develop introductory knowledge of Cyber Security.
- Develop knowledge about Future skills

The module on financial literacy will enable the individuals to understand the various financial services and be aware of the various schemes of Government.

Duration:

90 Hours - (Theory: 30 hrs + Practical: 60 hrs)

This course can also be offered as 10 days' full time intensive course.

Eligibility:

No minimum qualification is required for applying and appearing for the examination in Course on Computer Concepts [CCC].

Job Role:

Computer Operator, Data Entry Operator and Social Media Operator

Detailed Syllabus and Learning Outcome:

S. No.	Chapter Name	Course Outline	Duration (Hours)		Learning Outcomes
			Theory	Lab	

1	**Chapter-1 Introduction to Computer**	1.0 Introduction
		1.1 Objectives
		1.2 Computer and Latest IT gadgets
		   1.2.1 Evolution of Computers & its applications
		   1.2.2 IT gadgets and their applications
		1.3 Basics of Hardware and Software
		   1.3.1 Hardware
			2	4	After completion of this chapter, the candidate will be able to
					• identify computers, IT gadgets and explain their evolution and

Course on Computer Concepts [CCC]

		1.3.1.1 Central Processing Unit
		1.3.1.2 Input devices
		1.3.1.3 Output devices
		1.3.1.4 Computer Memory & storage
		1.3.2 Software
		   1.3.2.1 Application Software
		   1.3.2.2 Systems Software
		   1.3.2.3 Utility Software
		   1.3.2.4 Open source and Proprietary Software
		   1.3.2.5 Mobile Apps
		1.4 Summary
		1.5 Model Questions and Answers
					applications.
					• Get familiar with various input, output and hardware components of a computer along with storage devices.
					• Get familiar with various types of softwares, utilities used for computer and mobile apps.

2	**Chapter-2 Introduction to Operating System**	2.0 Introduction
		2.1 Objectives
		2.2 Operating System
		   2.2.1 Basics of Operating system
		   2.2.2 Operating Systems forDesktop and Laptop
		   2.2.3 Operating Systems for Mobile Phone and Tablets
		2.3 User Interface for Desktop and Laptop
		   2.3.1 Task Bar
		   2.3.2 Icons & shortcuts
		   2.3.3 Running an Application
		2.4 Operating System Simple Setting
		   2.4.1 Using Mouse and Changing its Properties
		   2.4.2 Changing System Date and Time
		   2.4.3 Changing Display Properties
		   2.4.4 To Add or Remove Program and Features
		   2.4.5 Adding, Removing & Sharing Printers
		2.5 File and Folder Management
		2.6 Types of file Extensions
		2.7 Summary
		2.8 Model Questions and Answers
			3	4	After learning this chapter, candidate will be
					• Well acquainted with Operating System and its applications for both desktop and mobile devices.
					• able to identify various desktop screen components and modify various properties, date, time etc.
					• able to add and remove new program and features, manage files and folders.
					• Well versed with printing and know various types of file extensions.

3.	**Chapter-3**
	
	WORD PROCESSING
		3.0 Introduction
		3.1 Objective
		3.2 Word Processing Basics
		   3.2.1 Opening Word Processing Package
		   3.2.2 Title Bar, Menu Bar, Toolbars & Sidebar
		   3.2.3 Creating a New Document
		3.3 Opening and Closing Documents
		   3.3.1 Opening Documents
		   3.3.2 Save and Save As
		   3.3.3 Closing Document
		   3.3.4 Using The Help
		   3.3.5 Page Setup
		   3.3.6 Print Preview
		   3.3.7 Printing of Documents
		   3.3.8 PDF file and Saving a Document as PDF file
			4	8	After completion ofthis chapter, candidate will have
					• In depth Knowledge of Word Processing, their usage, details of word processing screen.
					• Opening, savingand printing a document including pdf files.
					• Document creation, formatting of text,

		3.4 Text Creation and manipulation
		    3.4.1 Document Creation
		    3.4.2 Editing Text
		    3.4.3 Text Selection
		    3.4.4 Cut, Copy and Paste
		    3.4.5 Font, Color, Style and Size selection
		    3.4.6 Alignment of Text
		    3.4.7 Undo & Redo
		    3.4.8 AutoCorrect, Spelling & Grammar
		    3.4.9 Find and Replace
		3.5 Formatting the Text
		    3.5.1 Paragraph Indentation
		    3.5.2 Bullets and Numbering
		    3.5.3 Change case
		    3.5.4 Header & Footer
		3.6 Table Manipulation
		    3.6.1 Insert & Draw Table
		    3.6.2 Changing cell width and height
		    3.6.3 Alignment of Text in cell
		    3.6.4 Delete / Insertion of Row, Column and Merging & Splitting of Cells
		    3.6.5 Border and Shading
		3.7 Mail Merge
		3.8 Shortcut Keys
		3.9 Summary
		3.10 Model Questions and Answers
					paragraph and whole document.
					• Inserting Header and Footer on the document
					• Finding text on a word document and correcting spellings.
					• Able to insert and manipulate tables, enhance table using borders and shading features.
					• Can prepare copies of a document labels etc for sending various recipients using Mail Merge.

4.	**Chapter-4**
	
	SPREAD SHEET
		4.0 Introduction
		4.1 Objectives
		4.2 Elements of Spread Sheet
		    4.2.1 Creating of Spread Sheet
		    4.2.2 Concept of Cell Address [Row and Column] and selecting a Cell
		    4.2.3 Entering Data [text, number, date] in Cells
		    4.2.4 Page Setup
		    4.2.5 Printing of Sheet
		    4.2.6 Saving Spreadsheet
		    4.2.7 Opening and Closing
		4.3 Manipulation of Cells & Sheet
		    4.3.1 Modifying / Editing Cell Content
		    4.3.2 Formatting Cell (Font, Alignment, Style)
		    4.3.3 Cut, Copy, Paste & Paste Special
		    4.3.4 Changing Cell Height and Width
		    4.3.5 Inserting and Deleting Rows, Column
		    4.3.6 AutoFill
		    4.3.7 Sorting & Filtering
		    4.3.8 Freezing panes
		4.4 Formulas, Functions and Charts
		    4.4.1 Using Formulas for Numbers (Addition, Subtraction, Multiplication & Division)
		    4.4.2 AutoSum
		    4.4.3 Functions (Sum, Count, MAX, MIN, AVERAGE)
		    4.4.4 Charts (Bar, Pie, Line)
		4.5 Summary
		4.6 Model Questions and Answers
			3	9	After completion of this chapter, candidate will have good hands- on practice on
					• Basic Knowledge of Spreadsheet Processing, their usage, details of Spreadsheet screen.
					• Opening, saving and printing a Spreadsheet.
					• Spreadsheet creation, inserting and editing data in cells, sorting and filtering of data.
					• Inserting and deleting rows /columns.
					• Applying basic formulas and functions.
					• Prepare chart to represent the information in a

					pictorial form.

5.	**Chapter-5**
	
	Presentation
		5.0 Introduction
		5.1 Objectives
		5.2 Creation of Presentation
		    5.2.1 Creating a Presentation Using a Template
		    5.2.2 Creating a Blank Presentation
		    5.2.3 Inserting & Editing Text on Slides
		    5.2.4 Inserting and Deleting Slides in a Presentation
		    5.2.5 Saving a Presentation
		5.3 Manipulating Slides
		    5.3.1 Inserting Table
		    5.3.2 Adding ClipArt Pictures
		    5.3.3 Inserting Other Objects
		    5.3.4 Resizing and Scaling an Object
		    5.3.5 Creating & using Master Slide
		5.4 Presentation of Slides
		    5.4.1 Choosing a Set Up for Presentation
		    5.4.2 Running a Slide Show
		    5.4.3 Transition and Slide Timings
		    5.4.4 Automating a Slide Show
		5.5 Providing Aesthetics to Slides & Printing
		    5.5.1 Enhancing Text Presentation
		    5.5.2 Working with Color and Line Style
		    5.5.3 Adding Movie and Sound
		    5.5.4 Adding Headers, Footers and Notes
		    5.5.5 Printing Slides and Handouts
		5.6 Summary
		5.7 Model Questions and Answers
			3	9	After completion of this chapter, candidate will have good hands- on practice on
					• Basic Knowledge of PowerPoint presentations.
					• Opening/saving a presentation and printing of slides and handouts.
					• Manipulate slides to enhance the look of the slides as well as whole presentation by inserting a picture, objects, multimedia formatting etc.
					• Running a slide show with various transitions.

6.	**Chapter-6**
	
	INTRODUCTION TO INTERNET AND WWW
		6.0 Introduction
		6.1 Objectives
		6.2 Basic of Computer Networks
		    6.2.1 Local Area Network (LAN)
		    6.2.2 Wide Area Network (WAN)
		    6.2.3 Network Topology
		6.3 Internet
		    6.3.1 Concept of Internet & WWW
		    6.3.2 Applications of Internet
		    6.3.3 Website Address and URL
		    6.3.4 Introduction to IP Address
		    6.3.5 ISP and Role of ISP
		    6.3.6 Internet Protocol
		    6.3.7 Modes of Connecting Internet (Hotspot, Wi-Fi, LAN Cable, Broadband, USB Tethering)
		    6.3.8 Identifying and uses of IP/MAC/IMEI of various devices
		6.4 Popular Web Browsers (Internet Explorer/Edge, Chrome, Mozilla Firefox, Opera etc.)
		6.5 Exploring the Internet
		    6.5.1 Surfing the web
		    6.5.2 Popular Search Engines
		    6.5.3 Searching on Internet
		    6.5.4 Downloading Web Pages
		    6.5.5 Printing Web Pages
			3	4	After completion of this chapter, candidate will be able to:
					• Gather knowledge of various types of networks and topologies.
					• Get an overview of Internet, its applications and various browsers available to access the internet.
					• Connect to Internet using various modes of connections/devices available.
					• Get knowledge of device identification on local network as well as on Internet for both Desktop

					and Mobile Devices.
		6.6 Summary 6.7 Model Questions and Answers			• Can search Information on the Internet on various topics. • Download and print web pages.

7.	**Chapter-7**
	
	E-mail, Social Networking and e-Governance Services
		7.0 Introduction
		7.1 Objectives
		7.2 Structure of E-mail
		7.3 Using E-mails
		    7.3.1 Opening Email account
		    7.3.2 Mailbox: Inbox and Outbox
		    7.3.3 Creating and Sending a new E-mail
		    7.3.4 Replying to an E-mail message
		    7.3.5 Forwarding an E-mail message
		    7.3.6 Searching emails
		    7.3.7 Attaching files with email
		    7.3.8 Email Signature
		7.4 Social Networking & e-Commerce
		    7.4.1 Facebook, Twitter, LinkedIn, Instagram
		    7.4.2 Instant Messaging (WhatsApp, Facebook Messenger, Telegram)
		    7.4.3 Introduction to Blogs
		    7.4.4 Basics of E-commerce
		    7.4.5 Netiquettes
		7.5 Overview of e-Governance Services like Railway Reservation, Passport, eHospital [ORS]
		7.6 Accessing e-Governance Services on Mobile Using "UMANG APP"
		7.7 Digital Locker
		7.8 Summary
		7.9 Model Questions and Answers
			3	6	After completion of this chapter, candidate will be able to:
					• Create an email account, compose an email, reply an email and send the email along with attachments.
					• Get familiar with Social Networking, Instant Messaging and Blogs.
					• Get familiar with e-Governance Services, e-Commerce and Mobile Apps.

8.	**Chapter-8**
	
	DIGITAL FINANCIAL TOOLS AND APPLICATIONS
		8.0 Introduction
		8.1 Objectives
		8.2 Digital Financial Tools
		    8.2.1. Understanding OTP [One Time Password]and QR [Quick Response] Code
		    8.2.2 UPI [Unified Payment Interface]
		    8.2.3 AEPS [Aadhaar Enabled Payment System]
		    8.2.4 USSD[Unstructured Supplementary Service Data]
		    8.2.5 Card [Credit / Debit]
		    8.2.6 eWallet
		    8.2.7 PoS [Point of Sale]
		8.3 Internet Banking
		    8.3.1 National Electronic Fund Transfer (NEFT)
		    8.3.2 Real Time Gross Settlement (RTGS)
		    8.3.3 Immediate Payment Service (IMPS)
		8.4 Online Bill Payment
		8.5 Summary
		8.6 Model Questions and Answers
			3	5	After completion of this chapter, candidate will be able to:
					• Know the Digital Financial Tools.
					• Get Knowledge of Internet Banking Modes.
					• Get familiar with e-Governance Services, e-Commerce and Mobile Apps.
					• Use the Digital Locker and will be able to store documents in Digital Locker.

9.	Chapter-9
	
	Overview of Cyber Security
		9.0 Cyber Security
		    9.0.1 Need and Goal of Cyber Security
		    9.0.2 Securing PC
		    9.0.3 Securing Browser
		    9.0.4 Securing Email and Social Media Accounts
		        (Facebook, Instagram, WhatsApp)
		    9.0.5 Securing Smart Phone
		9.1 Summary
		9.2 Model Questions and Answers
			3	5	After completion of this chapter, candidate will be familiar with the :
					• Will be able to understand need of Cyber Security and will be able to secure their PC and Mobile devices by using basic security features.

	Chapter-10
	
	Overview of Future skills and Artificial Intelligence
		10.0 Introduction to Future skills
		10.1 Introduction to
		    10.1.1 Internet of Things (IoT)
		    10.1.2 Big Data Analytics
		    10.1.3 Cloud Computing
		    10.1.4 Virtual Reality
		    10.1.5 Artificial Intelligence
		    10.1.6 Social & Mobile
		    10.1.7 Blockchain Technology
		    10.1.8 3D Printing/ Additive Manufacturing
		    10.1.9 Robotics Process Automation
		10.2 What is Artificial Intelligence (AI)?
		10.3 History of Artificial Intelligence
		10.4 Why Artificial Intelligence?
		10.5 Goals of Artificial Intelligence
		10.6 Ethics of Artificial Intelligence
		10.7 Advantages of Artificial Intelligence
		10.8 Disadvantages of Artificial Intelligence
		10.9 Application of AI
		10.10 Types of Artificial Intelligence:
		10.11 Subsets of Artificial Intelligence
		10.12 Future of Artificial Intelligence
		10.13 Artificial Intelligence (AI) at Present
		10.14 Myths about Advanced Artificial Intelligence
		10.15 Future impact of AI in different sectors
		10.16 Summary
		10.17 Model Questions and Answers
			3	6	After completion of this chapter, candidate will be familiar with the:
					• Latest trends and technologies in upcoming fields in IECT.
					• Latest trends and use of Artificial Intelligence in present and future scenario.

Total Hours = 90			30	60	

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For practical purpose latest version of Free Open Source Ubuntu & LibreOffice may be used.

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