

### Course on Computer Concepts [CCC]

### Detailed Syllabus and Learning Outcome:

S. No.	Chapter Name	Course Outline	Duration (Hours)		Learning Outcomes
			Theory	Lab	
1	Chapter-1	1.0 Introduction			After completion of
	Introduction	1.1 Objectives	3	3	this chapter, the
	to Computer	1.2 Computer and Latest IT gadgets			candidate will be able
		1.2.1 Evolution of Computers & its applications			to
		1.2.2 IT gadgets and their applications			<ul> <li>identify computers,</li> </ul>
		1.3 Basics of Hardware and			IT gadgets and
		Software			explain their
		1.3.1 Hardware			evolution and

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2	Chaptor 2	<ul> <li>1.3.1.1 Central Processing Unit</li> <li>1.3.1.2 Input devices</li> <li>1.3.1.3 Output devices</li> <li>1.3.1.4 Computer Memory &amp; storage</li> <li>1.3.2 Software</li> <li>1.3.2.1 Application Software</li> <li>1.3.2.2 Systems Software</li> <li>1.3.2.3 Utility Software</li> <li>1.3.2.4 Open source and Proprietary Software</li> <li>1.3.2.5 Mobile Apps</li> <li>1.4 Summary</li> <li>1.5 Model Questions and Answers</li> </ul>			<ul> <li>applications.</li> <li>Get familiar with various input, output and hardware components of a computer along with storage devices.</li> <li>Get familiar with various types of softwares, utilities used for computer and mobile apps.</li> </ul>
2	Chapter-2 Introduction to Operating System	<ul> <li>2.0 Introduction</li> <li>2.1 Objectives</li> <li>2.2 Operating System</li> <li>2.2.1 Basics of Operating system</li> <li>2.2.2 Operating Systems for Desktop and Laptop</li> <li>2.2.3 Operating Systems for Mobile Phone and Tablets</li> <li>2.3 User Interface for Desktop and Laptop</li> <li>2.3.1 Task Bar</li> <li>2.3.2 Icons &amp; shortcuts</li> <li>2.3.3 Running an Application</li> <li>2.4 Operating System Simple Setting</li> <li>2.4.1 Using Mouse and Changing its Properties</li> <li>2.4.2 Changing Display Properties</li> <li>2.4.4 To Add or Remove Program and Features</li> <li>2.4.5 Adding, Removing &amp; Sharing Printers</li> <li>2.5 File and Folder Management</li> <li>2.6 Types of file Extensions</li> <li>2.7 Summary</li> <li>2.8 Model Questions and Answers</li> </ul>	3	4	<ul> <li>After learning this chapter, candidate will be</li> <li>Well acquainted with Operating System and its applications for both desktop and mobile devices.</li> <li>able to identify various desktop screen components and modify various properties, date, time etc.</li> <li>able to add and remove new program and features, manage files and folders.</li> <li>Well versed with printing and know various types of file extensions.</li> </ul>
3.	Chapter-3 WORD PROCESSING	<ul> <li>3.0 Introduction</li> <li>3.1 Objective</li> <li>3.2 Word Processing Basics <ul> <li>3.2.1 Opening Word Processing Package</li> <li>3.2.2 Title Bar, Menu Bar, Toolbars &amp; Sidebar</li> <li>3.2.3 Creating a New Document</li> </ul> </li> <li>3.3 Opening and Closing Documents <ul> <li>3.3.1 Opening Documents</li> <li>3.3.2 Save and Save As</li> <li>3.3.3 Closing Document</li> <li>3.3.4 Using The Help</li> <li>3.3.5 Page Setup</li> <li>3.3.6 Print Preview</li> <li>3.3.7 Printing of Documents</li> <li>3.3.8 PDF file and Saving a Document as PDF file</li> </ul> </li> </ul>	4	8	<ul> <li>After completion of this chapter, candidate will have</li> <li>In depth Knowledge of Word Processing, their usage, details of word processing screen.</li> <li>Opening, saving and printing a document including pdf files.</li> <li>Document creation, formatting of text,</li> </ul>

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		3.4 Text Creation and manipulation			paragraph and
		3.4.1 Document Creation			whole document.
		3.4.2 Editing Text			• Inserting Header
		3.4.3 Text Selection			and Footer on the
		3.4.4 Cut, Copy and Paste			document
		3.4.5 Font, Color, Style and Size selection			• Finding text on a
		3.4.6 Alignment of Text			word document
		3.4.7 Undo & Redo			and correcting
		3.4.8 AutoCorrect, Spelling & Grammar			spellings.
		3.4.9 Find and Replace			
		3.5 Formatting the Text			• Able to insert and
		3.5.1 Paragraph Indentation			manipulate tables,
		3.5.2 Bullets and Numbering			enhance table using
		3.5.3 Change case			borders and
		3.5.4 Header & Footer			shading features.
		3.6 Table Manipulation			Can prepare copies
		3.6.1 Insert & Draw Table			of a document
		3.6.2 Changing cell width and height			labels etc for
		3.6.3 Alignment of Text in cell			sending various
		0			recipients using
		· · · · · · · · · · · · · · · · · · ·			Mail Merge.
		Merging & Splitting of Cells			C
		3.6.5 Border and Shading			
		3.7 Mail Merge			
		3.8 Shortcut Keys			
		3.9 Summary			
		3.10 Model Questions and Answers			
4.	Chapter-4	4.0 Introduction			After completion of
		4.1 Objectives	4	8	this chapter, candidate
	SPREAD	4.2 Elements of Spread Sheet			will have good hands-
	SHEET	4.2.1 Creating of Spread Sheet			on practice on
		4.2.2 Concept of Cell Address [Row and Column]			Basic Knowledge of
		and selecting a Cell			Spreadsheet
		4.2.3 Entering Data [text, number, date] in Cells			Processing, their
		4.2.4 Page Setup			usage, details of
		4.2.5 Printing of Sheet			Spreadsheet
		4.2.6 Saving Spreadsheet			screen.
		4.2.7 Opening and Closing			• Opening, saving
		4.3 Manipulation of Cells & Sheet			and printing a
		4.3.1 Modifying / Editing Cell Content			Spreadsheet.
		4.3.2 Formatting Cell (Font, Alignment, Style )			<ul> <li>Spreadsheet</li> </ul>
		4.3.3 Cut, Copy, Paste & Paste Special			creation, inserting
		4.3.4 Changing Cell Height and Width			and editing data in
		4.3.5 Inserting and Deleting Rows, Column			cells, sorting and
		4.3.6 AutoFill			filtering of data.
		4.3.7 Sorting & Filtering			<ul> <li>Inserting of data.</li> <li>Inserting and</li> </ul>
		4.3.8 Freezing panes			
		4.4 Formulas, Functions and Charts			deleting rows
		4.4.1 Using Formulas for Numbers (Addition,			/columns.
		Subtraction, Multiplication & Division)			Applying basic
		4.4.2 AutoSum			formulas and
		4.4.3 Functions (Sum, Count, MAX, MIN, AVERAGE)			functions.
		4.4.4 Charts (Bar, Pie, Line)			<ul> <li>Prepare chart to</li> </ul>
		4.5 Summary			represent the
		4.6 Model Questions and Answers			information in a







					pictorial form.
5.	Chapter-5	5.0 Introduction			After completion of
		5.1 Objectives	4	8	this chapter, candidate
		5.2 Creation of Presentation			will have good hands-
	Presentation	5.2.1 Creating a Presentation Using a Template			on practice on
		5.2.2 Creating a Blank Presentation			Basic Knowledge of
		5.2.3 Inserting & Editing Text on Slides			PowerPoint
		5.2.4 Inserting and Deleting Slides in a			presentations.
		Presentation			•
		5.2.5 Saving a Presentation			• Opening/saving a
		5.3 Manipulating Slides			presentation and
		5.3.1 Inserting Table			printing of slides
		5.3.2 Adding ClipArt Pictures			and handouts.
		5.3.3 Inserting Other Objects			Manipulate slides
		5.3.4 Resizing and Scaling an Object			to enhance the look
		5.3.5 Creating & using Master Slide			of the slides as well
		5.4 Presentation of Slides			as whole
		5.4.1 Choosing a Set Up for Presentation			presentation by
		5.4.2 Running a Slide Show			inserting a picture,
		5.4.3 Transition and Slide Timings			objects, multimedia
		-			formatting etc.
		5.4.4 Automating a Slide Show			• Running a slide
		5.5 Providing Aesthetics to Slides & Printing			show with various
		5.5.1 Enhancing Text Presentation			transitions.
		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			
6.	Chantan (	5.7 Model Questions and Answers			After completion of
0.	Chapter-6	6.0 Introduction			After completion of
	INTRODUCTI	6.1 Objectives	2	4	this chapter, candidate will be able to:
	INTRODUCTI	6.2 Basic of Computer Networks	3	4	
	ON TO	6.2.1 Local Area Network (LAN)			Gather knowledge
	INTERNET	6.2.2 Wide Area Network (WAN)			of various types of networks and
	AND WWW	6.2.3 Network Topology			
		6.3 Internet			topologies.
		6.3.1 Concept of Internet & WWW			Get an overview of
		6.3.2 Applications of Internet 6.3.3 Website Address and URL			Internet, its
		6.3.4 Introduction to IP Address			applications and various browsers
		6.3.5 ISP and Role of ISP			
		6.3.6 Internet Protocol			available to access the internet.
		6.3.7 Modes of Connecting Internet (Hotspot, Wi-			<ul> <li>Connect to Internet</li> </ul>
		Fi, LAN Cable, Broadband, USB Tethering)			
					using various
		6.3.8 Identifying and uses of IP/MAC/IMEI of various devices			modes of
					connections/device
		6.4 Popular Web Browsers (Internet Explorer/Edge,			s available.
		Chrome, Mozilla Firefox, Opera etc.)			Get knowledge of     devrice
		6.5 Exploring the Internet			device identification on
		6.5.1 Surfing the web			identification on
		6.5.2 Popular Search Engines			local network as
		6.5.3 Searching on Internet			well as on Internet
		6.5.4 Downloading Web Pages			for both Desktop
		6.5.5 Printing Web Pages			

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		<ul><li>6.6 Summary</li><li>6.7 Model Questions and Answers</li></ul>			<ul> <li>and Mobile Devices.</li> <li>Can search Information on the Internet on various topics.</li> <li>Download and print web pages.</li> </ul>
7.	Chapter-7 E-mail, Social Networking and e- Governance Services	<ul> <li>7.0 Introduction</li> <li>7.1 Objectives</li> <li>7.2 Structure of E-mail</li> <li>7.3 Using E-mails</li> <li>7.3.1 Opening Email account</li> <li>7.3.2 Mailbox: Inbox and Outbox</li> <li>7.3.3 Creating and Sending a new E-mail</li> <li>7.3.4 Replying to an E-mail message</li> <li>7.3.5 Forwarding an E-mail message</li> <li>7.3.6 Searching emails</li> <li>7.3.7 Attaching files with email</li> <li>7.3.8 Email Signature</li> <li>7.4 Social Networking &amp; e-Commerce</li> <li>7.4.1 Facebook, Twitter, LinkedIn, Instagram</li> <li>7.4.2 Instant Messaging (WhatsApp, Facebook</li> <li>Messenger, Telegram)</li> <li>7.4.3 Introduction to Blogs</li> <li>7.4.4 Basics of E-commerce</li> <li>7.4.5 Netiquettes</li> <li>7.5 Overview of e-Governance Services like Railway</li> <li>Reservation, Passport, eHospital [ORS]</li> <li>7.6 Accessing e-Governance Services on Mobile Using "UMANG APP"</li> <li>7.7 Digital Locker</li> <li>7.8 Summary</li> <li>7.9 Model Questions and Answers</li> </ul>	3	6	<ul> <li>After completion of this chapter, candidate will be able to:</li> <li>Create an email account, compose an email, reply an email and send the email along with attachments.</li> <li>Get familiar with Social Networking, Instant Messaging and Blogs.</li> <li>Get familiar with e- Governance Services, e- Commerce and Mobile Apps.</li> </ul>
8.	Chapter-8 DIGITAL FINANCIAL TOOLS AND APPLICATION S	<ul> <li>8.0 Introduction</li> <li>8.1 Objectives</li> <li>8.2 Digital Financial Tools</li> <li>8.2.1. Understanding OTP [One Time Password]and QR [Quick Response] Code</li> <li>8.2.2 UPI [Unified Payment Interface]</li> <li>8.2.3 AEPS [Aadhaar Enabled Payment System]</li> <li>8.2.4 USSD[Unstructured Supplementary Service Data]</li> <li>8.2.5 Card [Credit / Debit]</li> <li>8.2.6 eWallet</li> <li>8.2.7 PoS [Point of Sale]</li> <li>8.3 Internet Banking</li> <li>8.3.1 National Electronic Fund Transfer (NEFT)</li> <li>8.3.2 Real Time Gross Settlement (RTGS)</li> <li>8.3.3 Immediate Payment Service (IMPS)</li> <li>8.4 Online Bill Payment</li> <li>8.5 Summary</li> <li>8.6 Model Questions and Answers</li> </ul>	4	4	<ul> <li>After completion of this chapter, candidate will be able to:</li> <li>Know the Digital Financial Tools.</li> <li>Get Knowledge of Internet Banking Modes.</li> <li>Get familiar with e- Governance Services, e- Commerce and Mobile Apps.</li> <li>Use the Digital Locker and will be able to store documents in Digital Locker.</li> </ul>

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	9.	Chapter-9 Overview of Futureskills & Cyber Security	9.0 9.1 9.2 9.3	Introduction to 9.1.1 Internet of Things (IoT) 9.1.2 Big Data Analytics 9.1.3 Cloud Computing 9.1.4 Virtual Reality 9.1.5 Artificial Intelligence 9.1.6 Social & Mobile 9.1.7 Blockchain Technology 9.1.8 3D Printing/ Additive Manufacturing 9.1.9 Robotics Process Automation	4	3	After completion of this chapter, candidate will be familiar with the : • Latest trends and technologies in upcoming fields in IECT. • Will be able to understand need of Cyber Security and will be able to secure their PC and Mobile devices by using basic security
-	Tota	al Hours = 80	9.4	Model Questions and Answers	32	48	features.

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

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