

**Lesson Plan April –June (2021-2022)**

**Name of the Assistant Professor-** Ritu Narwal **Subject-** Computer Science

<b>Month</b>	<b>B.Com(CAV) (2nd sem) BC(VOC-206) BUSINESS DATA PROCESSING AND PC SOFTWARE-II</b>	<b>BCA (2nd Sem) BCA-122 Logical Organization of Computers – II</b>	<b>B.Com CAV 4<sup>th</sup> Sem, BC(VOC-406) ADVANCED COMPUTER APPLICATIONS</b>
<b>April</b>	Presentation software: creating, opening and saving presentations; working in different views; working with slides; adding and formatting text; spelling checks; preparing overhead transparencies speakers notes, handouts and outlines etc.; printing presentations; working with objects; designing, running and controlling electronic slide shows.	Sequential Logic: Characteristics, Flip-Flops, Clocked RS, D type, JK, T type and MasterSlave flip-flops. State table, state diagram. Flip-flop excitation tables.	Networking: fundamentals, LAN/MAN/WAN, topologies, transmission media, ISDN, B-ISDN, protocols- TCP/IP, OSI, ATM, internet services; hardware and software requirements for internet; browsers- internet explorer, mozilla firefox, opera, google chrome; search engines; webpage.
<b>May</b>	Desktop publishing: concept, need and applications; hardware, software requirements for DTP, an overview of DTP packages- MS word, open office, etc.; comparison of DTP software, PageMaker: text formatting and word-formatting features, composition and typography, graphics and text objects, indexes contents and pagination, color management, tables handling, printing & publications; advantages and limitations of PageMaker over MS word.	Sequential Circuits: Designing registers – Serial Input Serial Output (SISO), Serial Input Parallel Output (SIPO), Parallel Input Serial Output (PISO), Parallel Input Parallel Output (PIPO) and shift registers. Designing counters – Asynchronous and Synchronous Binary Counters, Modulo-N Counters and Up-Down Counters	Information technology application in business, E-business, net banking; online purchasing and selling; online banking, electronic payment systems- an overview. E-governance- concept and examples. digitalization of services – income tax, digital lockers, etc

<b>June</b>	Statistical software: date entry, tabulation, sorting, data analysis using software; data analysis in excel, SPSS. Mobile applications: concept, types, sources of mobile applications, advantages and limitations of mobile applications.	Memory & I/O Devices: Memory Parameters, Semiconductor RAM, ROM, Magnetic and Optical Storage devices, Flash memory, I/O Devices and their controllers. Instruction Design & I/O Organization: Machine instruction, Instruction set selection, Instruction cycle, Instruction Format and Addressing Modes. I/O Interface, Interrupt structure, Program-controlled, Interrupt-controlled & DMA transfer, I/O Channels, IOP.	E-disha, etc., linking AADHAR to service – issues and impact. Social and ethical aspects of IT. Cyber Laws – IT Act 2000, impact of IT on other laws concerning business; cyber security – threats, anti-virus software, firewalls, etc.
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<b>Subject/Month</b>	<b>April</b>	<b>May</b>	<b>June</b>
<b>BCA (6thSem) BCA-365,Advanced Programming with Visual Basic</b>	Collections: Adding, Removing, Counting, Returning Items in a Collection, Processing a Collection; Working with Forms: Form Properties, Creating, Adding, Removing Forms in Project, Adding Multiple Forms, Managing Forms at Run Time, Hiding & Showing Forms, Load & Unload Statements, Drag and Drop Operation, Activate & Deactivate events, Form-load event, Example using Forms, Programs in VB using Forms. Working with Menu: Menu Designing in VB, Adding a Menu to a Form, Modifying and Deleting Menu Items, Adding Access Characters, Adding Shortcut Keys, Manipulating Menus using Common Dialog Box, Attaching Code to Events, Creating Submenus, Dynamic Menu Appearance	Advanced Controls in VB: Scroll Bar, Slider Control, Tree View, List View, Rich Text Box Control, Toolbar, Status Bar, Progress Bar, Cool bar, Image List Program Development in VB using Menus and Advance Controls. File Handling & File Controls: Sequential & Random files, Opening and Closing Data Files, Viewing the Data in a File, Performing Operations on a File, Creating a Sequential Data File, Writing Data to a Sequential File, Reading the Data in a Sequential File, Finding the End of a Data File, Locating a File, Reading and Writing a Random File (get, put, LOF, seek).	Working with Graphics: Using Paint, Line, Circle, Manipulating Graphics Program Development in VB using Files and Graphics. Accessing Databases: Data Controls, Data-Bound Controls, DAO, RDO, ADO, Creating the Database, Setting Properties, Applying Operations on Database, Viewing the Database, Updating the Database (adding, deleting records) Program Development in VB using Database and Advance Controls

