**Lesson Plan September 2022-December 2022)**

**Name of the Assistant Professor**- Reena Rani **Subject**- Computer Science

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| **Month** | **BCA ( 3rd Sem) BCA-233,**  **Computer Architecture** | **BCA 5th Sem, BCA-351, Web Designing** | **B.COM (CAV)-3rd Sem BC(VOC-306) DataBase Management System** |
| **September** | Basic Computer Organisation and Design: Instruction Codes, Computer  registers, Computer Instructions, Timing and Control, Instruction Cycle,  Memory reference instructions, Input-Output and Interrupt, Design of  Basic computer, Design of accumulator logic | Introduction to Internet and World Wide Web; Evolution and History of World Wide Web; Basic  Features; Web Browsers; Web Servers; Hypertext Transfer Protocol; URLs; Searching and Web-  Casting Techniques; Search Engines and Search Tools | Overview of Data Management System: element of data-base system, DBMS and its architecture,  advantages of DBMS, types of database users, role of database administrator.  Brief overview of hierarchical and network model, detailed study of relational model (relations, properties  of relational model, keys and integrity rules), and E-R diagrams. |
| **October** | Register Transfer and Microoperations: Register Transfer Language  (RTL), register transfer, Bus and Memory Transfers, Arithmetic  Microoperations, Logic Microoperations, Shift Microoperations,  Arithmetic Logic Shift Unit, Microprogrammed Control: Control  memory; address sequencing, microprogram sequencer, Design of  Control Unit | Steps for Developing Website; Choosing the Contents; Home Page; Domain Names; Internet Service  Provider; Planning and Designing Web Site; Creating a Website; Web Publishing: Hosting Site; | Normalization: concepts and update anomalies, functional and transitive dependencies normal forms  (1NF, 2NF, 3NF and BCNF). Database objects: terminologies- tables, views, materialized views, indexes; triggers; synonyms;  functions, procedures and packages; create operator, create directory, create library, database links. |
| **November** | Central Processing Unit: General registers Organization, Stack  Organization, Instruction formats, Addressing Modes, Data Transfer  and Manipulation, Program Control, Program Interrupt, RISC, CISC. | Introduction to HTML; Hypertext and HTML; HTML Document Features;  HTML Tags; Header, Title, Body, Paragraph, Ordered/Unordered Line, Creating Links; Headers; Text  Styles; Text Structuring; Text Colors and Background; Formatting Text; Page layouts; Insertion of  Text, Movement of Text | SQL: methods to access SQL plan; DDL, describe command; DML, joining tables; break clause. |
| **December** | Memory Organization: Memory hierarchy, Auxiliary Memory,  Associative Memory, Interleaved memory, Cache memory, Virtual  Memory, Memory Management Hardware, Input Output Organization :  Peripheral devices , Input-Output Interface, Asynchronous data  transfer, Modes of Transfer, Priority Interrupt, Direct Memory  Access(DMA),Input-Output Processor(IOP). | Images: Types of Images, Insertion of Image, Movement of Image, Ordered and Unordered lists;  Inserting Graphics; Table Handling Functions like Columns, Rows, Width, Colours; Frame Creation  and Layouts; Working with Forms and Menus; Working with Buttons like Radio, Check Box; | Oracle service: terminology; architecture and background support processes, role of database  administrator, applications of ORACLE in business. |

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| **Subject/Month** | **September** | **October** | **November** | **December** |
| B.Com 1st Sem, BC-104, Computer Application In Business | Introduction to Computers: definition, components and characteristics of computers; Input and output  devices: memory and mass storage devices; Introduction to modern CPU and processors. | Computer software: introduction, types of software: system, application and utility software;  Programming languages; | Introduction to operating system: types and function of operating system; Realtime  applications; Operating systems for Tabs, mobile phones, Android, etc.; Open source software: An  overview. | Application software: Spreadsheets, Word processors, Database management software; Networks basic,  types of networks, topologies, media, hardware and software required for networking. |