Lesson Plan (2023-24)

Name: Anil Kumar

Class: B. Com. Ist Semester

Subject: Computer Applications in Business

Week 1 Date 24.07.2022 to 29.07.2023   Computer definition and introduction , Characteristics of computers
Week 2 Date 31.07.2023 to 05.08.2023   Application of computers, computer application in business
Week 3 Date 07.08.2023 to 12.08.2023   Input devices
Week 4, Date 14.08.2023 to 19.08.2023   Output devices
Week 5 Date 21.08.2023 to 26.08.2023   Storage devices
Week 6 Date 28.08.2023 to 02.09.2023   Introduction to modern CPU and processors
Week 7 Date 04.09.2023 to 09.09.2023   Computer software and its types
Week 8 Date 11.09.2023 to 16.09.2023   Microsoft Word, Microsoft Excel,
Week 9 Date 18.09.2023 to 22.09.2023   Microsoft Powerpoint
Week 10 Date 25.09.2023 to 30.09.2023   Information technology and business: Concepts of data, information, Information System
Week 11 Date 02.10.2023 to 07.10.2023   Effects of IT on business, Types information System: TPS, MIS
Week 12 Date 09.10.2023 to 14.10.2023   Introduction to E Commerce, Benefits of E-Commerce, WWW, E Commerce Applications
Week 13 Date 16.10.2023 to 21.10.2023   E commerce Models, M Commerce, E Governance
Week 14 Date 23.10.2023 to 28.10.2023   Online payment system, payment gateways, Risk management options for E Payment
Week 15 Date 30.10.2023 to 04.11.2023   Plastic money: Debit cards, credit cards, smart cards
Week 16 Date 06.11.2023 to 09.11.2023   Digital certification, Digital signature
Week 17 Date 17.11.2023 to 18.11.2023   Revision
Week 18 Date 20.11.2023 to 24.11.2023   Revision

Anil Kumar

Assistant Professor of Computer Science

Lesson Plan (2023-24)

Name: Anil Kumar

Class: PGDCA Ist Semester

Subject: Introduction to Information Technology

Week 1 Date 16.08.2023 to 19.08.2023   Introduction to Computers: Characteristics and Limitations of Computers,
Week 2 Date 21.08.2023 to 26.08.2023   Evolutions of Computers, Classification of Computers, Computer Languages, Types of software, Structured Programming Concepts.
Week 3 Date 28.08.2023 to 02.09.2023   Units of a computer, CPU, ALU, Memory Hierarchy, Registers, I/O devices, Mother Board.
Week 4 Date 04.09.2023 to 09.09.2023   Introduction to MS-Word, Creating & Editing Text: Paragraph Formatting, Page Formatting, Template, Page,
Week 5 Date 11.09.2023 to 16.09.2023   Views, Table; Advanced Features: Bookmark, Mail Merge, Macros
Week 6 Date 18.09.2023 to 22.09.2023   Introduction to MS-Excel, Creating & Editing Worksheet, Formatting data,
Week 7 Date 25.09.2023 to 30.09.2023   Formulas and Functions, Creating Charts, Pivot Tables.
Week 8 Date 02.10.2023 to 07.10.2023   Power Point Presentations : Creating, Manipulating & Enhancing Slides, Organizational Charts,
Week 9 Date 09.10.2023 to 14.10.2023   Animations & Sounds, Inserting Animated Pictures
Week 10 Date 16.10.2023 to 21.10.2023   History of Internet, Web Browsers, Web Servers, Hypertext Transfer Protocol, Internet Protocols Addressing
Week 11 Date 23.10.2023 to 28.10.2023   Internet Connection Types, How Internet Works, ISPs, Search Engines, Emails and Its Working, Internet Security, Uses of Internet
Week 12 Date 30.10.2023 to 04.11.2023   Computer Networks and their advantages, Types of Computer Network, Network Topologies,
Week 13 Date 06.11.2023 to 09.11.2023   Basics of Transmission Media; Cloud Computing Basics: Overview, Applications, Intranets and the Cloud;
Week 14 Date 17.11.2023 to 18.11.2023   Benefits, Limitations and Security Concerns.
Week 15 Date 20.11.2023 to 24.11.2023   Revision

Anil Kumar

Assistant Professor of Computer Science

Lesson Plan (2023-24)

Name: Anil Kumar

Class: PGDCA Ist Semester

Subject: Computer Programming Using C

Week 1 Date 16.08.2023 to 19.08.2023 Problem definition, Algorithm development, Flowchart, Program Coding, compilation,
Week 2 Date 21.08.2023 to 26.08.2023 Debugging, testing and execution, Types of errors. C Programming Fundamentals: Identifiers and keywords, Structure of C Program data types, input and output, type conversion..
Week 3 Date 28.08.2023 to 02.09.2023 Operators & Expressions: Arithmetic, unary, logical and relational operators, assignment operator, Bit-wise, conditional operator, library functions.
Week 4 Date 04.09.2023 to 09.09.2023 Control statements: Decision making using if, if-else, Nested IF- Else If Ladder
Week 5 Date 11.09.2023 to 16.09.2023 Switch, break, continue statement and go to Statement, looping using for
Week 6 Date 18.09.2023 to 22.09.2023 while and do-while statements, nested loops.
Week 7 Date 25.09.2023 to 30.09.2023 Functions: Library functions, Defining & accessing User defined functions, function prototype and passing arguments to a function, recursion versus iteration. Macro vs function.
Week 8 Date 02.10.2023 to 07.10.2023 Arrays: Definition, accessing elements, initialization, passing to functions, multi-dimensional arrays,
Week 9 Date 09.10.2023 to 14.10.2023 Strings & operations of Strings, String Handling through Built-in and User Defined Functions.
Week 10 Date 16.10.2023 to 21.10.2023 Pointers declaration, assignment, Pointer Arithmetic, passing pointer to functions, pointer arrays, Dynamic Memory Allocation.
Week 11 Date 23.10.2023 to 28.10.2023 Structure and Union: Defining and Initializing Structure, accessing members, nested structures, pointer to structures, self-referential structuresl.
Week 12 Date 30.10.2023 to 04.11.2023 Unions: Introduction to Unions and its Utilities. File Handling and Storage classes: automatic, register, external and static variables;
Week 13 Date 06.11.2023 to 09.11.2023 Opening and Closing file in C,Modes of File,Reading and Writing data to a file.
Week 14 Date 17.11.2023 to 18.11.2023 Revision
Week 15 Date 20.11.2023 to 24.11.2023 Revision

Anil Kumar

Assistant Professor of Computer Science

Lesson Plan (2023-24)

Name: Anil Kumar

Class: PGDCA Ist Semester

Subject: Operating Systems

Week 1 Date 16.08.2023 to 19.08.2023 Operating systems functions and characteristics, operating system structure, operating system services, system calls, system programs.
Week 2 Date 21.08.2023 to 26.08.2023 Types of Operating system: Batch operating system, Time-sharing operating system, Distributed operating system, Real time systems
Week 3 Date 28.08.2023 to 02.09.2023 Process Management: Process concept, Process States, Process Control Block, Cooperating processes.
Week 4 Date 04.09.2023 to 09.09.2023 CPU scheduling: Levels of Scheduling, Scheduling criteria, Comparative study of scheduling algorithms, Multiple processor scheduling.
Week 5 Date 11.09.2023 to 16.09.2023 Concurrent Processes: Critical section problem, Semaphores
Week 6 Date 18.09.2023 to 22.09.2023 Classical process co-ordination problems and their solutions, Monitors, Inter-process Communications.
Week 7 Date 25.09.2023 to 30.09.2023 Deadlock: System model, Deadlock characterization, Methods for handling Deadlocks: Deadlock prevention, Deadlock avoidance, Deadlock detection, Recovery from Deadlock.
Week 8 Date 02.10.2023 to 07.10.2023 Storage Management: Storage allocation methods: Single contiguous allocation, Multiple contiguous allocation,
Week 9 Date 09.10.2023 to 14.10.2023 Paging; Segmentation combination of Paging and Segmentation, Virtual memory concepts
Week 10 Date 16.10.2023 to 21.10.2023 Demand Paging, Page replacement Algorithms, Thrashing.
Week 11 Date 23.10.2023 to 28.10.2023 Device and file management: Disk scheduling, Disk structure, Disk management,
Week 12 Date 30.10.2023 to 04.11.2023 File Systems: Functions of the system, File access and allocation methods, Directory Systems: Structured Organizations, directory and file protection mechanisms.
Week 13 Date 06.11.2023 to 09.11.2023 Case Studies: Comparative study of WINDOW, UNIX, ANDROID & LINUX system
Week 14 Date 17.11.2023 to 18.11.2023 Revision
Week 15 Date 20.11.2023 to 24.11.2023 Revision

Anil Kumar

Assistant Professor of Computer Science

Lesson Plan (2023-24)

Name: Anil Kumar

Class: PGDCA Ist Semester

Subject: Database Management Systems

Week 1 Date 16.08.2023 to 19.08.2023 Overview: File Systems vs. DBMS, Characteristics of the Data Base Approach, Database users, Advantages and Disadvantages of a DBMS,
Week 2 Date 21.08.2023 to 26.08.2023 Responsibility of Database Administrator. Data Base Systems Concepts and Architecture: Data Models
Week 3 Date 28.08.2023 to 02.09.2023 Schemas and Instances, DBMS architecture and various views of Data, Data Independence, Database languages.
Week 4 Date 04.09.2023 to 09.09.2023 Entity Relationship Model: Basic Concepts-Entity, Attributes, Types of Attributes, Entity set and Keys
Week 5 Date 11.09.2023 to 16.09.2023 Relationships-Relationship set, Degree of Relationship, Roles and Structural Constraints, ER Diagrams
Week 6 Date 18.09.2023 to 22.09.2023 Reduction of an E-R Diagram to Tables, Binary Representation and Cardinality, Participation Constraints
Week 7 Date 25.09.2023 to 30.09.2023 Relational Data Model:-Brief History, Relational Model Terminology-Relational Data Structure,
Week 8 Date 02.10.2023 to 07.10.2023 Database Relations, Properties of Relations, Keys, Domains,
Week 9 Date 09.10.2023 to 14.10.2023 Integrity Constraints over Relations, Base Tables and Views
Week 10 Date 16.10.2023 to 21.10.2023 SQL: Introduction to SQL, Data Types in SQL,
Week 11 Date 23.10.2023 to 28.10.2023 Common Commands in SQL- Select, Insert, Update and Delete,
Week 12 Date 30.10.2023 to 04.11.2023 views in SQL; Relational Database Design: Functional Dependencies, Decomposition, Desirable properties of decomposition,.
Week 13 Date 06.11.2023 to 09.11.2023 Normal Forms (1 NF, 2 NF, 3 NF and BCNF)
Week 14 Date 17.11.2023 to 18.11.2023 Revision
Week 15 Date 20.11.2023 to 24.11.2023 Revision

Anil Kumar
Assistant Professor of Computer Science

Lesson Plan (2023-24)

Name: Anil Kumar

Class: PGDCA Ist Semester

Subject: Web Technologies

Week 1 Date 16.08.2023 to 19.08.2023 Introduction to Internet and World Wide Web; Evolution and History of World Wide Web; Basic features; Web Browsers;
Week 2 Date 21.08.2023 to 26.08.2023 Web Servers; Hypertext Transfer Protocol; URLs; Searching and Web Casting Techniques; Search Engines and Search Tools.
Week 3 Date 28.08.2023 to 02.09.2023 Web Publishing: Hosting your Site; Internet Service Provider; Planning and designing your Web Site;
Week 4 Date 04.09.2023 to 09.09.2023 Steps for developing your Site; Choosing the contents; Home Page; Domain Names; Creating a Website; Website and its Categories.
Week 5 Date 11.09.2023 to 16.09.2023 HTML
Week 6 Date 18.09.2023 to 22.09.2023 HTML
Week 7 Date 25.09.2023 to 30.09.2023 HTML
Week 8 Date 02.10.2023 to 07.10.2023 HTML
Week 9 Date 09.10.2023 to 14.10.2023 HTML
Week 10 Date 16.10.2023 to 21.10.2023 HTML
Week 11 Date 23.10.2023 to 28.10.2023 HTML
Week 12 Date 30.10.2023 to 04.11.2023 HTML
Week 13 Date 06.11.2023 to 09.11.2023 HTML
Week 14 Date 17.11.2023 to 18.11.2023 Revision
Week 15 Date 20.11.2023 to 24.11.2023 Revision

Anil Kumar

Assistant Professor of Computer Science