**TEACHING PLAN FOR IT(E)**

**PG.GOVT COLLEGE FOR GIRLS, SECTOR-42, CHANDIGARH**

**Teaching Plan Odd Semester (For Undergraduate Classes - First Year)**

**Session (2022-2023)**

**Class: BA/BSc IT 1ST Sem**   **Name of the Teacher: Sonika**

**Subject: IT(E) Paper :** **Computer Fundamentals**

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| **S. No** | **Dates** | **Topics to be covered** |
| Week 1 | 16-08-2022 to 20-08-2022 | Introduction: characteristics of computer; History of computers; classification of computers based on size, architecture and chronology; Applications of computers; Commonly used terms–Hardware, Software, and Firmware. Types of software: System and Application software; Input, Process and Output, Block diagram of a computer Representation of information: BIT, BYTE, Memory, Memory size; Units of measurement of storage; Primary Memory: RAM, ROM, PROM, EPROM, Cache |
| Week 2 | 22-08-2022 to 27-08-2022 | Removable and non-removable secondary memory: Tapes, Disks, CDROM, DVD, comparison of these devices based on technology and speed. Organization of data on disks: Tracks, sectors, cylinders, heads, access time, seek time and latency time. |
| Week 3 | 29-08-2022 to 03-09-2022 | Input/Output devices Programming Languages: Generation of Languages; Translators - Interpreters, Compilers, Assemblers and their comparison ASCII and EBCDIC Codes, |
| Week 4 | 05-09-2022 to 10-09-2022 | DOS: Booting sequence; Warm and Cold booting; Concept of File and directory, Redirecting command input and output pipes, Wildcard characters, Types of DOS commands: Internal and External; Internal Commands: DIR, MD, CD, CLS, COPY, DATE, DEL, Binary, Octal, Decimal and Hexadecimal Number Systems and their Conversion, Integer and Floating Point Representation. |
| Week 5 | 12-09-2022 to 17-09-2022 | PATH, PROMPT, REN, RD, TIME, TYPE, VER, VOL; External Commands: XCOPY, ATTRIB, BACKUP, RESTORE, FIND, SYS, FORMAT, CHKDSK, DISKCOPY, LABEL, MOVE, TREE, DELTREE, DEFRAG, SCANDISK, UNDELETE. Batch Files: Introduction to simple batch files; Introduction to CONFIG.SYS and AUTOEXEC.BAT files. |
| Week 6 | 19-09-2022 to 24-09-2022 | Windows: GUI, Icons, Toolbar, Control panel, Files and folder management under windows , Accessories, Network Neighborhood, System Tools, Recycle Bin Overview of UNIX structure, |
| Week 7 | 26-09-2022 to 01-10-2022 | general purpose UNIX commands such as date, echo, cal, bc, pwd, passwd; file and directory commands such as ls, mkdir, cp, mv, rm. Process management commands such as ps, kill, nohup, communication commands such as news, mesg, wall. Comparison of main features of DOS, UINUX and Windows Operating Systems. |
| Week 8 | 03-10-2022 to 08-10-2022 | Basics of Word Processing: creating, opening, saving, and printing document, Menu Toolbars Editing Text: Copy, Paste, Delete, Move etc., Finding and Replacing Text, Spell Check, Autocorrect feature, language setting and thesaurus Formatting: Character, Paragraph and Page formatting, working with indents, Bulleted and numbered lists, |
| Week 9 | 10-10-2022 to 15-10-2022 | adding Headers and Footers, setting up Multiple Columns Working with tables: Inserting/creating table using toolbar and drawing, formatting table, adding/deleting rows/columns, Applying borders to tables |
| Week 10 | 17-10-2022 to 22-10-2022 | Clipart: Using clip art, Creating Word Art Mail merge: Creating merged envelops, creating merged mailing labels |
| Week 11 | 25-10-2022 to 27-10-2022 | Macros: Creating, naming and saving macros, running a macro, suspending a macro, deleting a macro. |
| **Mid Semester Exam (28th October 2022 – 4th November 2022)** | | |
| Week 13 | 5-11-2022 | Worksheet overview: Row, Column, Cells, Menus, creating, opening, saving, and printing worksheet; working with Range |
| Week 14 | 07-11-2022 to 12-11-2022 | Editing information: Entering text, numbers and formulae, AutoSum, AutoFill, spell checking |
| Week 15 | 14-11-2022 to 19-11-2022 | Working with Functions: Statistical, Mathematical and String functions, date and Time functions, Trignometric functions Working with charts: Line graphs, Pie charts, Bar graphs, adding Titles, Legends etc. to charts, Printing Charts |
| Week 16 | 21-11-2022 to 26-11-2022 | Presentation Software: Basic features, selecting design templates, creating, saving and printing a simple presentation, various views, Adding multimedia. |

**PG.GOVT COLLEGE FOR GIRLS, SECTOR-42, CHANDIGARH**

**Teaching Plan Odd Semester (For Ongoing Classes UG-PG)**

**Session (2022-2023)**

**Class: BA/BSc IT 3rdSem**   **Name of the Teacher: Sonika**

**Subject: IT(E) Paper :Computer programming using C++**

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| **S. No** | **Dates** | **Topics to be covered** |
| Week 1 | 13-08-2022 | Concepts of Object Oriented Programming Introduction to OOP, Difference between OOP and Procedure Oriented Programming, Object,Class,Encapsulation,Abstraction,Polymorphism, Inheritance. |
| Week 2 | 16-08-2022 to 20-08-2022 | Structure of a C++ Program and I/O streams. Classes and Objects Class Declaration : Data Members, Member Functions, Private and Public members, Creating Objects, Accessing class data members, Accessing member functions. |
| Week 3 | 22-08-2022 to 27-08-2022 | Function Definition: Member Function definition inside the class declaration and outside the class declaration, friend function, inline function, static function. Scope resolution operator, Private and Public member function |
| Week 4 | 29-08-2022 to 03-09-2022 | Nesting of member functions, Arrays within a class. Arrays of Objects, Objects as function arguments: Pass by value, Pass by reference, Pointers to Objects. |
| Week 5 | 05-09-2022 to 10-09-2022 | Constructors and Destructors: Declaration and Definition, Types of Constructors, (Default, Parameterized, Copy Constructors). Destructors: Definition and use. Function Overloading & Operator Overloading. |
| Week 6 | 12-09-2022 to 17-09-2022 | Inheritance - Extending Classes Concept of inheritance, Base class, Defining derived classes, Visibility modes :Public, Private, Protected ; Single inheritance : Privately derived, Publicly derived |
| Week 7 | 19-09-2022 to 24-09-2022 | Making a protected member inheritable, Access Control to private and protected members by member functions of a derived class |
| Week 8 | 26-09-2022 to 01-10-2022 | Polymorphism: Definition, Application and demonstration of Data Abstraction |
| Week 9 | 03-10-2022 to 08-10-2022 | Encapsulation and Polymorphism. Early Binding, Polymorphism with pointers |
| Week 10 | 10-10-2022 to 15-10-2022 | Virtual Functions, Late binding, pure virtual functions. |
| Week 11 | 17-10-2022 to 22-10-2022 | File Processing : Opening and closing of file, stream state member functions, |
| Week 12 | 25-10-2022 to 27-10-2022 | Data Structures: Basic Concepts and notations, introduction to Complexity |
| **Mid Semester Exam (28th October 2022 – 4th November 2022)** | | |
| Week 13 | 5-11-2022 | Data Structure operations ,applications of Data Structure |
| Week 14 | 07-11-2022 to 12-11-2022 | Arrays: Introduction, Types of Array, Memory representation, applications and operations |
| Week 15 | 14-11-2022 to 19-11-2022 | Stacks: Array representation of a stack, operations- initialization, push, pop, empty, and full; applications; Queue: introduction, memory representation, operations- add, remove, initialization; applications |
| Week 16 | 21-11-2022 to 25-11-2022 | Linked List: introduction, declaration, operations:-traversing, searching, inserting, deleting; Introduction to circular list. |

**PG.GOVT COLLEGE FOR GIRLS, SECTOR-42, CHANDIGARH**

**Teaching Plan Odd Semester (For Ongoing Classes UG-PG)**

**Session (2022-2023)**

**Class: BSc/BA 5 Sem**   **Name of the Teacher: Ramninder Kaur**

**Subject: IT(E ) Paper: Database System and VB .NET**

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| **S. No** | **Dates** | **Topics to be covered** |
| Week 1 | 13-08-2022 | Introduction to RDBMS: Approaches to Data Management, File System approach vs Database approach |
| Week 2 | 16-08-2022 to 20-08-2022 | Database management - An Evolutionary Phenomenon, Introduction to DBMS, Introduction to the relational database. Relational data model. Features, advantages and limitations. |
| Week 3 | 22-08-2022 to 27-08-2022 | The 12 Rules (Codd’s Rule) for an RDBMS, Relational Database Management System (RDBMS). Introduction to SQL commands. |
| Week 4 | 29-08-2022 to 03-09-2022 | Data Definition Language (DDL), Creating Tables, Creating a Table with data from Another table, Inserting Values into a Table, Updating Column(s) of a Table. |
| Week 5 | 05-09-2022 to 10-09-2022 | Renaming and Destroying tables. , Deleting Row(s) From a Table, Dropping a Column, Modifying the structure of the table. Introduction to Views, Manipulating the Base table(s) through views, Rules of DML Statements on Join Views, Dropping a View , Inline Views, Materialized Views. |
| Week 6 | 12-09-2022 to 17-09-2022 | Data Manipulation and Control-Database Security and Privileges, Grant Command, Revoke Command, Application Privileges Management, Enhancing Performance, Sequences, Maintaining Database Objects, COMMIT and ROLLBACK. |
| Week 7 | 19-09-2022 to 24-09-2022 | Introduction to SQL, Data Types, Querying database tables, Conditional retrieval of rows, Working with Null Values, Matching a pattern from a table, ordering the result of a Query |
| Week 8 | 26-09-2022 to 01-10-2022 | Introduction to SQL, Data Types, Querying database tables, Conditional retrieval of rows, Working with Null Values, Matching a pattern from a table, ordering the result of a Query |
| Week 9 | 03-10-2022 to 08-10-2022 | Aggregate Functions, Grouping the Result of a Query, ROLLUP Operation: Getting Sub Totals, CUBE Operation: Getting Cross Tabs, Command Summary. |
| Week 10 | 10-10-2022 to 15-10-2022 | Querying Multiple Tables: Collating Information: Equi Joins, Cartesian Joins, Outer Joins, Self Joins, SET Operators: Union, Intersect, Minus; Nested Queries. |
| Week 11 | 17-10-2022 to 22-10-2022 | Functions, Column Functions: Arithmetic Functions, Character Functions, Date Functions, General Functions, Group Functions.  PL/SQL-I Introduction to PL/SQL, The Advantage of PL/SQL Block Structure, PL/SQL Architecture, Fundamentals of PL/SQL, PL/SQL Data Types, Variables and Constants, Scope and Visibility of a Variable |
| Week 12 | 25-10-2022 to 27-10-2022 | PL/SQL-II Cursor Management in PL /SQL, Cursor Manipulation, Implicit cursor Attributes, Exception Handling in PL/ SQL , Predefined Exceptions, User Defined Exception. |
| **Mid Semester Exam (28th October 2022 – 4th November 2022)** | | |
| Week 13 | 5-11-2022 | Overview of the visual Studio .NET IDE: Menu Bar and Tool Bar, Solution Explorer, Tool Box, Properties. |
| Week 14 | 07-11-2022 to 12-11-2022 | Displaying and printing Text, Displaying Image, Arithmetic, relational operators, Control structures (branching, looping), assignment operators.  Procedures : Introduction, Modules, classes, sub Procedures, function procedures, passing arguments (pass by value VS pass by reference), Recursion: factorial, Fibonacci series |
| Week 15 | 14-11-2022 to 19-11-2022 | Arrays and Strings: declaring and allocating Arrays, passing Arrays to procedures. Sorting Arrays using Bubble Sort, searching Arrays using Linear Search, Binary Search, String functions |
| Week 16 | 21-11-2022 to 25-11-2022 | Accessing Data with ADO.NET: Understanding ADO.net Object model, architecture, and components, Database, Connecting to and querying an access data source, Creating Applications which can Insert, Delete, and Update information from a database using SQL statements, viewing data using Data Grid View Control |

**TEACHING PLAN FOR COMPUTER SCIENCE(E)**

**PG.GOVT COLLEGE FOR GIRLS, SECTOR-42, CHANDIGARH**

**Teaching Plan Odd Semester (For Undergraduate Classes - First Year)**

**Session (2022-2023)**

**Class: BSc-1 Sem**  **Name of the Teacher: Ramninder Kaur**

**Subject: Computer Science (E) Paper : A)Computer Fundamentals**

**B)PC Software**

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| **S. No** | **Dates** | **Topics to be covered** |
| Week 1 | 16-08-2022 to 20-08-2022 | Computer Appreciation: Introduction to computers,  characteristics of computer; History of computers;  Classification of computers on size: (Micro, Mini,  Mainframe and super computers), Working Principle of  computers |
| Week 2 | 22-08-2022 to 27-08-2022 | Basic Computer Organization: Block diagram of computer  system, Input unit, Processing Unit and Output Unit  Generations. |
| Week 3 | 29-08-2022 to 03-09-2022 | Applications of computers; commonly used  terms–Hardware, Software, Firmware. Description of  Computer input devices: Keyboard, Mouse, joystick,  Trackball, Pen, Touch screens Scanner, Digital Camera |
| Week 4 | 05-09-2022 to 10-09-2022 | Output devices: Monitors, Printers: types, mechanism  and differences, Plotters as output devices. Representation of information: BIT, BYTE, Memory, Memory size, |
| Week 5 | 12-09-2022 to 17-09-2022 | Concept of files and directories; Disk Operating System: DOS, System Files, types of DOS commands: Internal and External commands: Introduction to AUTOEXEC.BAT, Directory commands: XCOPY, DEL, RENAME, ATTRIB, BACKUP, RESTORE, FIND, SYS; General commands: TYPE, DATE, TIME, PROMPT; Batch Files, Wild Cards, Line Editor. |
| Week 6 | 19-09-2022 to 24-09-2022 | Units of measurement of storage; Main memory: main  memory organization, RAM, ROM, PROM, EPROM  Magnetic Tapes, Magnetic disks and types, Optical disks:  CD, DVD  Introduction to graphical user interface, window operating system, Anatomy of windows, organizing folders and files, recycle bin, my computer, windows explorer, control panel. |
| Week 7 | 26-09-2022 to 01-10-2022 | Word Processing : Basics of Word Processing; Opening, Creating, Saving, Printing and Quitting Documents, Using the Interface (Menu Toolbars), Editing Text (Copy, Delete, Move), Finding and Replacing Text, Spell Check, Autocorrect; Auto Text, Character formatting, Page formatting. |
| Week 8 | 03-10-2022 to 08-10-2022 | Document Enhancement; Adding Borders and shading, Adding Headers and Footers, Setting up Multiple columns, Sorting blocks, Adjusting Margins and Hyphenating Documents, Creating Master Documents, Creating Data Source, Merging Documents, Using Mail merge feature for labels and envelops; Inserting Pictures, Tables, Working with equations. |
| Week 9 | 10-10-2022 to 15-10-2022 | Memory storage devices: Flash Drive, Memory card etc. System and Application software; Programming Languages, Generation of Languages; |
| Week 10 | 17-10-2022 to 22-10-2022 | Translators - Interpreters, Compilers, Assemblers and  their comparison. Range of Applications of computers: Scientific, Word Processing and others. |
| Week 11 | 25-10-2022 to 27-10-2022 | Spread Sheets, E-commerce, Business, Educational,  Industrial, National level weather forecasting, Remote  Sensing, Planning Multilingual Applications.  Recapitulation for MST |
| **Mid Semester Exam (28th October 2022 – 4th November 2022)** | | |
| Week 13 | 5-11-2022 | Spread Sheet : Worksheet overview, Row, Column, Cells, Menus, Creating Worksheet, Opening, Saving, Printing Worksheets; Calculations, Auto fill, Working with Formulae, Data Formatting (number formatting, date formatting), Working with Ranges, Establishing Worksheet links; Creating, Sorting and Filtering Data Base; |
| Week 14 | 07-11-2022 to 12-11-2022 | Creating chart, Adding Titles, Legends etc. to charts, Printing Charts, Creating Macros, Record Macros, Running Macros, Assigning Macros to Buttons, Functions (Statistical, Financial, Mathematical, String, Date and Time).  Types of Operating System; Linux/Dos/Windows.  Operating Systems : Components of Operating System,  Functions of Operating System |
| Week 15 | 14-11-2022 to 19-11-2022 | MS-Power Point: Creating, Saving, Printing Presentation; Selecting Design Templates, Animations and Transitions, Auto Content Wizard. |
| Week 16 | 21-11-2022 to 26-11-2022 | Computers and Communication: Single user, multi-user,  workstation, and client server systems.  Computer networks, Network protocols. LAN, WAN, Services  offered by Internet. |

**PG.GOVT COLLEGE FOR GIRLS, SECTOR-42, CHANDIGARH**

**Teaching Plan Odd Semester (For Ongoing Classes UG)**

**Session (2022-2023)**

**Class: BSc CSc 3rdSem**   **Name of the Teacher: Sonika**

**Subject: Computer Science (E)**

**Paper :Object Oriented Programming using C++ and computer organisation**

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| **S. No** | **Dates** | **Topics to be covered** |
| Week 1 | 13-08-2022 | Number system: Binary, Decimal, Hexadecimal, Octal;  Conversions; integer and floating point representation, character codes (ASCII, EBCDIC), error detection and correction codes: Parity bit method, Hamming code; Boolean algebra. |
| Week 2 | 16-08-2022 to 20-08-2022 | Combinatorial logic design : Gates, Half Adder, Full Adder, Encoder, Decoder, Multiplexer |
| Week 3 | 22-08-2022 to 27-08-2022 | Object, Class, Encapsulation, Data Hiding, Inheritance, Polymorphism. Analysis and design of system using Object Oriented Approach, Benefit of OOPs. Structure of a C++ Program : Include files, Declaration of class, Main function, I/O streams. Classes : Class Declaration : Data Members, Member Functions, Private and Public members,  .Functions in C++ : Member function definition inside the class declaration and outside the class declaration |
| Week 4 | 29-08-2022 to 03-09-2022 | Data hiding and encapsulation, arrays within a class.  Objects :Creating Objects, Accessing class data members, Accessing member functions |
| Week 5 | 05-09-2022 to 10-09-2022 | Methods of passing arguments to functions. |
| Week 6 | 12-09-2022 to 17-09-2022 | Arrays of Objects, Objects as function arguments: Pass by value, Pass by Reference |
| Week 7 | 19-09-2022 to 24-09-2022 | Constructors: Declaration and Definition, Default Constructors, Parameterized Constructors, Copy Constructors. Destructors: Definition and use. |
| Week 8 | 26-09-2022 to 01-10-2022 | Sequential Building Block : Flip-Flops, Registers, Counters |
| Week 9 | 03-10-2022 to 08-10-2022 | Synchronous and Asynchronous Counters, Bus. |
| Week 10 | 10-10-2022 to 15-10-2022 | Register Transfer, Arithmetic, Logical and Shift Operations; Instruction :Instruction Format, Instruction cycle |
| Week 11 | 17-10-2022 to 22-10-2022 | Pointers to Objects, Nesting of member functions, Static and  Friend functions. |
| Week 12 | 25-10-2022 to 27-10-2022 | Concept of inheritance, base class, derived class,  Defining derived classes, visibility modes, private, public. |
| **Mid Semester Exam (28th October 2022 – 4th November 2022)** | | |
| Week 13 | 5-11-2022 | single inheritance : privately derived, publicly derived  making a protected member inheritable |
| Week 14 | 07-11-2022 to 12-11-2022 | Architecture of 8086/8088 Processor Model; Instruction Set; Addressing Modes: Registers used in Microprocessor. |
| Week 15 | 14-11-2022 to 19-11-2022 | Features of Assembly Language, Machine Language vs  Assembly Language, Pseudo Instruction; use of Assembly |
| Week 16 | 21-11-2022 to 25-11-2022 | Multilevel inheritance, nesting of classes. Definition, types, Function overloading, Operator Overloading, Virtual functions and pure virtual functions |

**PG.GOVT COLLEGE FOR GIRLS, SECTOR-42, CHANDIGARH**

**Teaching Plan Odd Semester (For Ongoing Classes UG-PG)**

**Session (2022-2023)**

**Class: BSc 5 Sem**   **Name of the Teacher: Ramninder Kaur**

**Subject: Computer Science (E) Paper: A) Relational Database Management System B) Project Management**

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| **S. No** | **Dates** | **Topics to be covered** |
| Week 1 | 13-08-2022 | Introduction to databases. File system approach and Database approach. Introduction to the relational database. Relational data model. Features, advantages and limitations. Structure of Relational Database systems. |
| Week 2 | 16-08-2022 to 20-08-2022 | Interactive SQL : SQL commands; Data Definition Language Commands(create table); Data types, Insertion of data into the tables Data Manipulation Language Commands Viewing of data from the tables; Updating the contents of the table |
| Week 3 | 22-08-2022 to 27-08-2022 | Modifying the structure of the table; Renaming table; Destroying tables.  Concepts of Project Management : Concept of a project, Characteristic features of a project, Categories of project, Project life cycle phases |
| Week 4 | 29-08-2022 to 03-09-2022 | Project Management Concepts, Tools and Techniques for Project Management, Introduction of Computerized project management systems, Roles and Responsibilities of a Project Manager. |
| Week 5 | 05-09-2022 to 10-09-2022 | Data Constraints: Types of Data Constraints; Column Level Constraints; Table Level Constraints; Null value concepts; The UNIQUE Constraint; The PRIMARY Constraint; The FOREIGN key Constraint; The CHECK Constraint; Viewing the User Constraint. |
| Week 6 | 12-09-2022 to 17-09-2022 | SQL Operators and Functions: Arithmetic operators, Logical operators, Range searching, Pattern matching; Establishing the Project : Feasibility Report : Raw material survey, Demand study, Technical study, Location study; Financing Arrangements |
| Week 7 | 19-09-2022 to 24-09-2022 | Preparation of Cost Estimates, Finalization of Project Implementation Schedule, Evaluation of the Project Profitability, Fixing the zero date.  Using DUAL, SYSDATE; SQL Functions: Group, Scalar, Aggregate, Numeric, String and Date Functions. |
| Week 8 | 26-09-2022 to 01-10-2022 | Grouping data from tables in SQL : using Group By clause and Having clause in select statement. Subqueries, Collating Information: Equi Joins, Cartesian Joins, Outer Joins, Self Joins; SET Operators: Union, Intersect, Minus; Nested Queries. |
| Week 9 | 03-10-2022 to 08-10-2022 | Organizing human resource: Delegation, Project organization: Matrix, Task force and Totally projectized organization; Indexes: Creation, Types, Dropping an index; Introduction to Views |
| Week 10 | 10-10-2022 to 15-10-2022 | Manipulating the Base table(s) through views, Rules of DML Statements on Join Views, Dropping a View, Inline Views and Materialized Views. |
| Week 11 | 17-10-2022 to 22-10-2022 | Sequences: Creation, Reference and Alteration; Database Security and Privileges: Grant Command, Revoke Command, Application Privileges Management, COMMIT and ROLLBACK. |
| Week 12 | 25-10-2022 to 27-10-2022 | Project Directions, Coordination and Control: Project Direction, Communications in a Project, Project Coordination, Project Control, Scope/Progress Control, Performance Control, Schedule Control, and Cost Control. |
| **Mid Semester Exam (28th October 2022 – 4th November 2022)** | | |
| Week 13 | 5-11-2022 | PL/SQL-I: Introduction to PL/SQL, The Advantage of PL/SQL, PL/SQL block structure, PL/SQL Architecture, Fundamentals of PL/SQL, PL/SQL Data types, Variables and constants, Scope and visibility of a variable, Assignments and expressions, Operator precedence, Conditional and iterative control, SQL within PL/SQL, writing PL/SQL code. |
| Week 14 | 07-11-2022 to 12-11-2022 | PL/SQL-II: Cursor management in PL/SQL, Cursor manipulation, Implicit and Explicit cursor attributes, Exceptional Handling, Subprograms in PL/SQL, Procedure, Functions, and Triggers. |
| Week 15 | 14-11-2022 to 19-11-2022 | Report Writing - I: Characteristics of Reports, Importance of Reports, Types of Reports, Structure and layout of Reports: front matter, main body, back matter; Preparatory Steps to Writing Reports: Evaluation of material, Note making, Organizing material, Principle of organization, Making outline |
| Week 16 | 21-11-2022 to 25-11-2022 | Report Writing- II: Elements of Style; Use of Illustrations: types; Writing the Report: Rough draft, Process of writing, Order of writing, Final draft, Check list for reports; Specimen Reports: technical report |