

Dr.MonikaGogna

POST GRADUATE GOVERNMENT COLLEGE FOR GIRLS

SECTOR-42, CHANDIGARH

Teaching Plan Even Semester (UG and PG)

Session (2022-2023)

Class: M.Sc(IT) 2nd Sem
Subject: Artificial Intelligence
Paper : MS-67

Name of the Teacher: Dr. Monika Gogna
Period : 6th (1-4)
Room No : Lab3

| S. No | Dates | Topics to be covered |
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| Week 1 | 16/01/2023 – 21/01/2023 | Introduction and Applications, History of AI from Alan Turing and developments in AI, application areas; Criteria for success; |
| Week 2 | 23/01/2023- 28/01/2023 | Problem Characteristics; Problem representation-State space representation, problem reduction representation, |
| Week 3 | 30/01/2023- 04/02/2023 | production system; Introduction to agents, intelligent software systems, Applications, Intelligent architectures, components of intelligent agent based distributed systems. |
| Week 4 | 06/02/2023- 11/02/2023 | Data driven and goal driven search; Uninformed search, Breadth -first Search and Depth-First Search methods; |
| Week 5 | 13/02/2023- 17/02/2023 | Heuristic Search Techniques - Hill Climbing, Best first Search, A*, AO*, Constraint satisfaction and means-ends analysis techniques. |
| Week 6 | 20/02/2023- 25/02/2023 | Features of Prolog, Elementary Data Types, Compound objects in Prolog, Writing simple program in Prolog |
| Week 7 | 27/02/2023- 04/03/2023 | Understanding Default flow control of the Prolog Program, Controlling Program Flow with cut and fail, List Manipulation, String manipulation, |
| Week 8 | 06/03/2023- 11/03/2023 | Arithmetic Operators and evaluation of Arithmetic expressions, Input /Output statement. Some simple example problems: Tower of Hanoi, Sorted Tree Dictionary, Sorting, Searching Graphs, Searching a Maze. |
| Week 9 | 13/03/2023- 18/03/2023 | Mid-Semester Exams |
| Week 10 | 20/03/2023- 25/03/2023 | Game Playing: Minimax Search Procedure, Adding Alpha-Beta Cutoffs. Definition and Applications, Characteristics of Expert systems, Architecture of a typical Expert System, Expert System Shells, Building an Expert System, |
| Week 11 | 27/03/2023- 01/04/2023 | Case studies of Expert Systems like MYCIN, Specific Application of AI. Definition of Neurons, Communication and Learning in Neural |

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| | | Networks, Definition of Fuzzy / Logic set., Information and Knowledge, Knowledge Acquisition and Manipulation, Issues in Knowledge Representation, Knowledge Representation Methods, Propositional Logic and First Order Predicate Logic, |
| Week 12 | 03/04/2023-08/04/2023 | Resolution: Definition, Conversion to ClauseForm, Resolution in Propositional and Predicate Logic, Unification and Resolution Principle; Horn's Clauses, Semantic Networks, Partitioned Semantic Nets, Frames, Scripts and Conceptual Dependencies. |
| Week 13 | 10/04/2023-15/04/2023 | Complexity of the problem, Syntactic processing: Grammars and Parsers, Augmented Transition Networks; Semantic Analysis: |
| Week 14 | 17/04/2023-21/04/2023 | Semantic Grammars, Case Grammars; Discourse and Pragmatic processing: |
| Week 15 | 24/04/2023-29/04/2023 | Using Focus in Understanding, Modeling Beliefs; Introduction to Perception: Vision using Low-Level and High-Level Image Features and Action: Navigation and Manipulation. |

POST GRADUATE GOVERNMENT COLLEGE FOR GIRLS

SECTOR-42, CHANDIGARH

Teaching Plan Even Semester (UG and PG)

Session (2022-2023)

Class: PGDCA 2nd Sem

Name of the Teacher: Dr. Monika Gogna

Subject: Object Oriented Concepts using Java

Period : 1st(1-6)

Paper : PGD-2101

Room No : 101

| S. No | Dates | Topics to be covered |
|---------|-------------------------|---|
| Week 1 | 16/01/2023 – 21/01/2023 | Basic Concepts of Object-Oriented Programming (Objects and Classes, Data abstraction and encapsulation, Inheritance, Polymorphism, Dynamic binding, Message communication), |
| Week 2 | 23/01/2023- 28/01/2023 | difference between procedure oriented and object oriented approach, Benefits of OOP's; Applications of OOP's, Object-Oriented languages |
| Week 3 | 30/01/2023- 04/02/2023 | Byte code, Java virtual machine, Java Development Kit, java tokens, constants, variables, data types, |
| Week 4 | 06/02/2023- 11/02/2023 | operators, expressions, control structures, defining class, creating objects, accessing class members, method overloading, static members |
| Week 5 | 13/02/2023- 17/02/2023 | Defining a subclass, subclass constructor, multilevel inheritance, Hierarchical inheritance |
| Week 6 | 20/02/2023- 25/02/2023 | Overriding methods, Final variables, methods, and classes, Abstract Methods and Classes. |
| Week 7 | 27/02/2023- 04/03/2023 | Public access, friendly access, protected access, private access, private protected access. 5. Arrays: One dimensional array, declaration, creation and initialization of arrays, Array length, Two dimensional array |
| Week 8 | 06/03/2023- 11/03/2023 | Strings: String arrays, String methods, StringBuffer class 7. Interfaces: Defining interfaces, Extending Interfaces, Implementing Interfaces. Accessing Interface variables |
| Week 9 | 13/03/2023- 18/03/2023 | Mid-Semester Exams |
| Week 10 | 20/03/2023- 25/03/2023 | Java API packages, Defining a package, Creating and Accessing |

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| | | packages, Adding class to a package, Hiding Classes. |
| Week 11 | 27/03/2023-01/04/2023 | Multithreaded Programming: Creating Thread, Extending the Thread class, Stopping and Blocking a Thread, Life cycle of a Thread |
| Week 12 | 03/04/2023-08/04/2023 | Errors and Exception Handling: Fundamentals, error types, exception types, using Try and catch, finally statement, Built-in exceptions. |
| Week 13 | 10/04/2023-15/04/2023 | Applet Programming: Local and remote applets, Applet Life Cycle, Creating an executable Applet, Applet tag, Adding Applet to a HTML file, Passing parameters to Applets |
| Week 14 | 17/04/2023-21/04/2023 | Revision |
| Week 15 | 24/04/2023-29/04/2023 | Revision |

Dr. Anu Chawla

POST GRADUATE GOVERNMENT COLLEGE FOR GIRLS

SECTOR-42, CHANDIGARH

Teaching Plan Even Semester (UG and PG)

Session (2022-2023)

Class: BCA II (Sem 4)

Subject: Operating System Concepts and Linux

Paper :BCA-16-404

Name of the Teacher:Dr. Anu Chawla

Period :1st (1-4)

Room No : 202, IT Block

| S. No | Dates | Topics to be covered |
|---------|-------------------------|--|
| Week 1 | 16/01/2023 – 21/01/2023 | Operating Systems (OS): Introduction, its needs and services, Types of OS: Multi-user, Multitasking, |
| Week 2 | 23/01/2023- 28/01/2023 | Multiprocessing and Real time Operating Systems, Parallel systems, Distributed systems |
| Week 3 | 30/01/2023- 04/02/2023 | Process Management: Introduction to Process, PCB, Process States, Introduction to Linux: Linux's shell, Kernel, Features of Linux, History, Minimum system requirements |
| Week 4 | 06/02/2023- 11/02/2023 | Starting and stopping Linux system, passwords, logging in and out, terminal Handling commands: who, Understanding wildcards, Environment variables. |
| Week 5 | 13/02/2023- 17/02/2023 | Understanding I/O Redirection and Piping: Introduction, cut, paste, sort, tee; |
| Week 6 | 20/02/2023- 25/02/2023 | Introduction to Regular Expressions and grep . Using file system: Introduction to common types of files, Filenames, Introduction to different types of directories: Parent, Subdirectory, Home directory; rules to name a directory, Important directories in Linux File System, |
| Week 7 | 27/02/2023- 04/03/2023 | CPU Scheduling: Scheduling Criteria and Algorithms: FCFS, SJF, Priority, Round Robin, |
| Week 8 | 06/03/2023- 11/03/2023 | Multilevel Queue Scheduling, Multilevel Feedback Queue Scheduling |
| Week 9 | 13/03/2023- 18/03/2023 | Absolute and relative filenames, creating files and directories, listing files (ls), pwd, moving and copying files (mv, cp), moving directories, Removing files and directories, using wildcards with files and directories, |
| Week 10 | 20/03/2023- 25/03/2023 | File and directory permissions using relative and absolute methods, Changing group ownership, umask settings |
| Week 11 | 27/03/2023- | Process Management: Types of processes, ps, bg, fg, nice, kill. |

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| | 01/04/2023 | Understanding System Administration activities: Superuser (su) command, Taking backups using tar, Managing disk space, Mounting and Un-mounting file system, Managing users, |
| Week 12 | 03/04/2023-08/04/2023 | Managing printers with lpd, mknod, lpc, lpq, lprm. Vi editor: starting vi, vi modes, inserting text, quitting vi, deleting text, copying and moving text, searching and replacing text. |
| Week 13 | 10/04/2023-15/04/2023 | Deadlocks: Necessary and sufficient conditions for Deadlocks, Introduction to methods for handling deadlocks, deadlock detection and recovery |
| Week 14 | 17/04/2023-21/04/2023 | Memory Management: Logical vs Physical address space, Swapping, Introduction to Paging, Segmentation, Virtual Memory-Demand paging, Introduction to Page Replacement algorithms: FIFO, Optimal Page replacement and LRU |
| Week 15 | 24/04/2023-29/04/2023 | Doubts and Revision |

POST GRADUATE GOVERNMENT COLLEGE FOR GIRLS

SECTOR-42, CHANDIGARH

Teaching Plan Even Semester (UG and PG)

Session (2022-2023)

Class: M.Sc. (IT) – I Sem II

Subject: Advanced Database System and MySQL

Paper :MS-60

Name of the Teacher:Dr. Anu Chawla

Period :2nd (1-4)

Room No : lab3 (IT Block)

| S. No | Dates | Topics to be covered |
|---------|-------------------------|---|
| Week 1 | 16/01/2023 – 21/01/2023 | Database Management Systems: Definition, Characteristics, Advantages of Using DBMS Approach, Classification of DBMSs, Data Models, Database Schema and Instance, Three Schema Architecture, Data Independence – Physical and Logical data Independence. |
| Week 2 | 23/01/2023- 28/01/2023 | Introduction; Why MySQL; Tools provided with MySQL; MySQL Architectural Terminology; Databases: Creating |
| Week 3 | 30/01/2023- 04/02/2023 | MySQL : Selecting, Dropping and Altering Databases; Tables: Creating, dropping, Altering |
| Week 4 | 06/02/2023- 11/02/2023 | Entity- relationship model: Entities, Relationships, Representation of entities, attributes, Representation of relationship set, Generalization, aggregation. |
| Week 5 | 13/02/2023- 17/02/2023 | Normalization: Functional Dependency, Full Functional Dependency, Partial Dependency, Transitive Dependency, Normal Forms– 1NF, 2NF, 3NF, BCNF, Multi-valued Dependency. |
| Week 6 | 20/02/2023- 25/02/2023 | Data Warehousing: Introduction; Features; Data modeling for Data Warehousing; Building Data warehouse; Comparison between Data Warehouse and DBMS Metadata; Problems and issues in Data Warehouse. |
| Week 7 | 27/02/2023- 04/03/2023 | Data Mining: Overview; Goals of Data Mining; Techniques: Association rules(Market Basket Algorithm, Apriori Algorithm); |
| Week 8 | 06/03/2023- 11/03/2023 | Data Mining: Classification: |
| Week 9 | 13/03/2023- 18/03/2023 | Decision Tree, Induction Algorithm; Applications of Data Mining. |
| Week 10 | 20/03/2023- 25/03/2023 | Relational Algebra and Relational Calculus: Relational Algebra: Operations- Union, Intersection, Difference, Cartesian product, Projection, Selection, Division and relational algebra queries; |
| Week 11 | 27/03/2023- 01/04/2023 | Relational Calculus: Tuple oriented and domain oriented relational calculus and its operations. |

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| Week 12 | 03/04/2023-08/04/2023 | Transaction and Concurrency control: Concept of transaction, ACID properties, Serializability, States of transaction, Concurrency control: Locking techniques, Time stamp based protocols, Granularity of data items, Deadlock |
| Week 13 | 10/04/2023-15/04/2023 | Indexing Tables; Adding new rows, Retrieving Information, Deleting or Updating Existing rows; Obtaining MySQL Metadata; Joins; |
| Week 14 | 17/04/2023-21/04/2023 | Subqueries; Views; Multiple Tables Deletion and Updation; Foreign Keys and Referential Integrity; MySQL Data Types; Sequences. |
| Week 15 | 24/04/2023-29/04/2023 | Doubts and Revision |

Ms. Sarbjit Kaur

POST GRADUATE GOVERNMENT COLLEGE FOR GIRLS

SECTOR-42, CHANDIGARH

Teaching Plan Even Semester (UG and PG)

Session (2022-2023)

Class: MSc IT 2ndsem.

Name of the Teacher: Sarbjit Kaur

Subject: Advance Java and Network Programming

Period : 7th (1-6)

Paper : MS - 45

Room No : Lab 3, IT Block

| S. No | Dates | Topics to be covered |
|---------|-------------------------|--|
| Week 1 | 16/01/2023 – 21/01/2023 | Applets, Multithreading, AWT Controls, Event Handling. |
| Week 2 | 23/01/2023- 28/01/2023 | Swing: Features, components, Swing vs AWT, swing containers, controls |
| Week 3 | 30/01/2023- 04/02/2023 | using Dialogs, sliders, progress bars, tables, creating user interface using swing |
| Week 4 | 06/02/2023- 11/02/2023 | Connectivity model, Java. SQL package, JDBC Exception classes, |
| Week 5 | 13/02/2023- 17/02/2023 | Database connectivity, Data manipulation and navigation, Using Prepared Statement creating database applications |
| Week 6 | 20/02/2023- 25/02/2023 | Java RMI: Distributed object technologies, RMI architecture, creating RMI applications. |
| Week 7 | 27/02/2023- 04/03/2023 | Servlets vs CGI, Servlet Lifecycle, creating and running servlets. |
| Week 8 | 06/03/2023- 11/03/2023 | Networking: Networking basics, Client / server model, Java and the Net, TCP/IP client sockets |
| Week 9 | 13/03/2023- 18/03/2023 | TCP/IP server sockets, Inet Address, URL, Data grams, creating networking applications |
| Week 10 | 20/03/2023- 25/03/2023 | Component architecture, Components, |
| Week 11 | 27/03/2023- 01/04/2023 | Advantages of Beans, Bean Developer kit (BDK) |
| Week 12 | 03/04/2023- 08/04/2023 | JAR files, introspection, developing Beans, |
| Week 13 | 10/04/2023- 15/04/2023 | Using Bound properties, The Java Beans API |
| Week 14 | 17/04/2023- 21/04/2023 | Introduction to EJB (Enterprise Java Beans), Types of EJB, Uses of EJB |

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| Week 15 | 24/04/2023- 29/04/2023 | Introduction, JSP Architecture, JSP Elements: ImplicitObjects,Comments, Directives, Action Elements, Scripting Elements. Developing simple Web Applications. |
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POST GRADUATE GOVERNMENT COLLEGE FOR GIRLS

SECTOR-42, CHANDIGARH

Teaching Plan Even Semester (UG and PG)

Session (2022-2023)

Class: PGDCA

Subject: Web Technologies

Paper :PGD - 2102

Name of the Teacher:Sarbjit Kaur

Period : 2nd (1-6)

Room No : 201, IT Block

| S. No | Dates | Topics to be covered |
|---------|-------------------------|---|
| Week 1 | 16/01/2023 – 21/01/2023 | Brief history of HTML, Building blocks of HTML, lists |
| Week 2 | 23/01/2023- 28/01/2023 | links, images, image map, tables, |
| Week 3 | 30/01/2023- 04/02/2023 | frames, forms ,Introduction to Style Sheets |
| Week 4 | 06/02/2023- 11/02/2023 | Types of style Sheets-Inline, embedded and external style sheets. |
| Week 5 | 13/02/2023- 17/02/2023 | Features, tokens, data types, variables, operations |
| Week 6 | 20/02/2023- 25/02/2023 | control constructs, strings, arrays, functions |
| Week 7 | 27/02/2023- 04/03/2023 | Document Object Model, event handling. Applications related to client side form validation. |
| Week 8 | 06/03/2023- 11/03/2023 | Core language objects, The String Object, The Math Object, and The Date Object; |
| Week 9 | 13/03/2023- 18/03/2023 | User Defined Objects: Creating a User Defined Object, Instances, Objects within Objects |
| Week 10 | 20/03/2023- 25/03/2023 | Embedding PHP code in a Web Page, Basic Syntax, Defining variable and constant, PHP Data types, Operators and Expressions |
| Week 11 | 27/03/2023- 01/04/2023 | Making Decisions, Doing Repetitive task with looping, File inclusion statements |
| Week 12 | 03/04/2023- 08/04/2023 | Defining a function, Call by value and Call by reference, recursive function, Library functions |
| Week 13 | 10/04/2023- 15/04/2023 | Anatomy of an Array, Creating index based and Associative array, Accessing array Element, Looping with associative array using each() and foreach(), Some useful Library function: current(), next(), prev(), reset(), end(). |
| Week 14 | 17/04/2023- 21/04/2023 | Working with Forms: Super global variables, super global array, Importing and accessing user input, Combine HTML and PHP code. |

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| Week 15 | 24/04/2023- 29/04/2023 | Opening, closing, Coping, renaming and deleting a file, working with directories, File Uploading & Downloading |
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Ms.Jasdeep Kaur

POST GRADUATE GOVERNMENT COLLEGE FOR GIRLS

SECTOR-42, CHANDIGARH

Teaching Plan Even Semester (UG and PG)

Session (2022-2023)

Class: BCA III

Subject: Application Development using VB.Net

Paper :BCA-16-602

Name of the Teacher: Jasdeep Kaur

Period :3rd

Room No : Lab 4

| S. No | Dates | Topics to be covered |
|---------|-------------------------|--|
| Week 1 | 16/01/2023 – 21/01/2023 | Overview of the Visual Studio .NET IDE: Introduction to .NET Framework and the Common Language Runtime. |
| Week 2 | 23/01/2023- 28/01/2023 | Introduction to Visual studio.NET IDE: Menu Bar and Tool Bar, Solution Explorer, Toolbox, Using different controls of Toolbox. |
| Week 3 | 30/01/2023- 04/02/2023 | Commonly used properties and methods: TextBox, Label, Check Box, Radio Button, Button, Frame, List Box, Combo Box, Picture, Image. |
| Week 4 | 06/02/2023- 11/02/2023 | Shape, Drive, File, directory related controls, Introduction to Menus, Basics of VB.Net: Constants, Variables, data types, assignment operator, Operators: Arithmetic, Relational and logical operators, Assignment operators. |
| Week 5 | 13/02/2023- 17/02/2023 | Control structures: If, if/then/else selection structures, Select case Multiple-selection structure |
| Week 6 | 20/02/2023- 25/02/2023 | While, do while, do until, For/Next repetition structure |
| Week 7 | 27/02/2023- 04/03/2023 | Introduction, sub Procedures, function procedures, event procedures, commonly used Form events, msgBox function, InputBox function. |
| Week 8 | 06/03/2023- 11/03/2023 | Arrays and Strings: declaring and allocating Arrays, Using Strings and String functions: len, right, left, ucase, lcase, ltrim, trim; Control Arrays: Introduction, creating and using Control Arrays. |
| Week 9 | 13/03/2023- 18/03/2023 | Understanding Web Forms, Using Validation Controls RequiredFieldValidator,RangeValidator,CompareValidator,RegularExpressionValidator |
| Week 10 | 20/03/2023- 25/03/2023 | Custom Validation , Validation Summary, Managing State in ASP.NET Web Applications using Session object, Cookie and Query String , |
| Week 11 | 27/03/2023- 01/04/2023 | Creating ASP.NET application, Deploying ASP.NET Applications with Windows Installer, Introduction to Web Services. |

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| Week 12 | 03/04/2023-08/04/2023 | Understanding ADO.net, ADO.NET Object model: Connected model and Disconnected model. |
| Week 13 | 10/04/2023-15/04/2023 | Architecture, components, Understanding Provider classes, using Data Reader to read data from database, Data Adapter and Data sets |
| Week 14 | 17/04/2023-21/04/2023 | Using DataAdapter for Data Navigation and Data Manipulation, |
| Week 15 | 24/04/2023-29/04/2023 | Connecting to and querying a data source, using Data Grid view control with ADO.NET data source. |

POST GRADUATE GOVERNMENT COLLEGE FOR GIRLS

SECTOR-42, CHANDIGARH

Teaching Plan Even Semester (UG and PG)

Session (2022-2023)

Class: PGDCA

Subject: Computer based accounting

Paper :PGD-2104

Name of the Teacher:

Period : 6th

Room No : 201

| S. No | Dates | Topics to be covered |
|---------|-------------------------|--|
| Week 1 | 16/01/2023 – 21/01/2023 | Accounting: Principles, concepts and conventions. |
| Week 2 | 23/01/2023- 28/01/2023 | Double entry system of accounting. |
| Week 3 | 30/01/2023- 04/02/2023 | Introduction of basic books of accounts of sole proprietary concern. |
| Week 4 | 06/02/2023- 11/02/2023 | Control accounts for debtors and creditors, closing of books of accounts. |
| Week 5 | 13/02/2023- 17/02/2023 | Preparation of trial balance. Closing entry of account. |
| Week 6 | 20/02/2023- 25/02/2023 | Final Accounts: Trading, profit and loss accounts proprietary concern with normal closing entries. |
| Week 7 | 27/02/2023- 04/03/2023 | Balance sheet of sole proprietary concern with normal closing entries |
| Week 8 | 06/03/2023- 11/03/2023 | Introduction to manufacturing account, final accounts |
| Week 9 | 13/03/2023- 18/03/2023 | Introduction to computerized financial accounting, coding logic and codes required, master files, Transaction files. |
| Week 10 | 20/03/2023- 25/03/2023 | Introduction to documents used for data collection, processing of different files, outputs obtained. |
| Week 11 | 27/03/2023- 01/04/2023 | Types of inventory and associated documents, Inventory reports- nature and their types. Inventory Control: ABC and Ageing analysis, Methods of Stock validation: LIFO, FIFO, actual bases. |
| Week 12 | 03/04/2023- 08/04/2023 | Interfacing Inventory with Financial Accounting, Purchasing Sub-Systems, Sales Order processing. |
| Week 13 | 10/04/2023- 15/04/2023 | Introduction to Computerized Payroll |
| Week 14 | 17/04/2023- 21/04/2023 | Invoicing Applications, Exposure to: Structure, Processing and Reports, Interfacing these applications to financial Accounting |
| Week 15 | 24/04/2023- 29/04/2023 | Introduction to Tally, Groups, Ledgers, Vouchers, Orders, Cost Centres and Categories. Stock. Reports in Tally. |

POST GRADUATE GOVERNMENT COLLEGE FOR GIRLS

SECTOR-42, CHANDIGARH

Teaching Plan Even Semester (UG and PG)

Session (2022-2023)

Class: BCA I

Subject: Fundamentals of Web Programming

Paper :: BCA-16-203

Name of the Teacher: Jasdeep Kaur

Period : 1st

Room No : 201

| S. No | Dates | Topics to be covered |
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| Week 1 | 16/01/2023 – 21/01/2023 | Web Server, Web Client/Browser, Understanding how a Browser communicates with a Web Server |
| Week 2 | 23/01/2023- 28/01/2023 | Website, Webpage, Static Website, Dynamic Website, Internet, Intranet, Extranet, WWW, URL. |
| Week 3 | 30/01/2023- 04/02/2023 | Structure of an HTML program, Paragraph Breaks, Line Breaks; Emphasizing Material in a Web Page (Heading Styles, Drawing Lines). Text Styles (Bold, Italics, Underline); Other Text Effects (Centring, Text, Images etc.) |
| Week 4 | 06/02/2023- 11/02/2023 | Lists: Unordered List, Ordered Lists, Definition lists. Adding Graphics to HTML Documents using the Border, Width, Height, Align, ALT Attributes. |
| Week 5 | 13/02/2023- 17/02/2023 | Tables: Caption Tag, Width, Border, Cell padding, Cell spacing, BGCOLOR, COLSPAN and ROWSPAN Attributes. |
| Week 6 | 20/02/2023- 25/02/2023 | Linking Documents: Anchor tag, External Document References, Internal Document References and Image Maps |
| Week 7 | 27/02/2023- 04/03/2023 | Frames: Introduction to Frames: The <FRAMESET> tag, The <FRAME> tag, Targeting Named Frames . DHTML: Introduction to cascading style sheets (CSS), Style tag, |

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| | | Link tag. |
| Week 8 | 06/03/2023-11/03/2023 | Types of CSS: In-Line, Internal, External Forms: Attributes of Form element, Input element, The Text Element, Pass word, Button, Submit Button, Reset Button, The Checkbox, Radio, TextArea, Select and Option |
| Week 9 | 13/03/2023-18/03/2023 | Java Script: Introduction and Features of JavaScript, Writing JavaScript into HTML.Tokens, data types, variables, operations, control constructs. |
| Week 10 | 20/03/2023-25/03/2023 | Strings arrays, functions, core language objects, client side objects, event handling. |
| Week 11 | 27/03/2023-01/04/2023 | Applications related to client side form validation. Other Built-In Objects in JavaScript: The String Object, The Math Object, The Date Object. |
| Week 12 | 03/04/2023-08/04/2023 | Introduction to Dreamweaver: Understanding Workspace Layout, Managing Websites, Creating a Website. |
| Week 13 | 10/04/2023-15/04/2023 | Templates, Adding New WebPages, Text and Page Format. |
| Week 14 | 17/04/2023-21/04/2023 | Web Hosting: Understanding Domain Name & Web Space, Getting a Domain Name & Web Space (Purchase or Free). |
| Week 15 | 24/04/2023-29/04/2023 | Uploading the Website to Remote Server, Introduction to Open Source Third party FTP Tools |

Dr. Nidhi Goyal

POST GRADUATE GOVERNMENT COLLEGE FOR GIRLS

SECTOR-42, CHANDIGARH

Teaching Plan Even Semester (UG and PG)

Session (2022-2023)

Class: BCA I (2ndsem)
Subject: Computer Organization
Paper :BCA-16-202

Name of the Teacher: Dr. Nidhi Goyal
Period : 3rd
Room No : 201

| S. No | Dates | Topics to be covered |
|---------|-------------------------|---|
| Week 1 | 16/01/2023 – 21/01/2023 | Computer Organization: Evolution of Computers, Stored program concept and Von Neumann Architecture |
| Week 2 | 23/01/2023- 28/01/2023 | Information representation and codes, Number System |
| Week 3 | 30/01/2023- 04/02/2023 | Arithmetic algorithms: Addition and subtraction for signed magnitude and 2's complement numbers, integer multiplication using shift and add |
| Week 4 | 06/02/2023- 11/02/2023 | Combinatorial Blocks: Gates, Half Adder, Full Adder |
| Week 5 | 13/02/2023- 17/02/2023 | Combinatorial Blocks: Multiplexers, Demultiplexer, Decoders, Encoders, |
| Week 6 | 20/02/2023- 25/02/2023 | Sequential Building blocks : Flip Flops, Registers, Counters |
| Week 7 | 27/02/2023- 04/03/2023 | System Maintenance, Physical Inspection of a PC and internal cards, Diagnostics on a PC, Functional description of various modules and cards. |
| Week 8 | 06/03/2023- 11/03/2023 | PC Doctor, Norton, Semantic, Steps of Diagnostics. Viruses, Types of viruses. Detection, Protection and Cure of Viruses on a PC. |
| Week 9 | 13/03/2023- 18/03/2023 | Memory Organization: RAM, Basic cell of static and dynamic RAM, Building large memories using chips, |
| Week 10 | 20/03/2023- 25/03/2023 | Associative memory, Cache memory organization, Virtual memory organization. |
| Week 11 | 27/03/2023- 01/04/2023 | Assembly Language Programming: Machine and assembly language, Pseudo operations, subroutines in assembly language, Assembly language programs:-To add/subtract two numbers, Program to input/output one character, Program to demonstrate the use of subroutines. |
| Week 12 | 03/04/2023- 08/04/2023 | Register Transfer Language and micro-operations; Language to represent conditional data transfer, Arithmetic and logical operations along with register transfer. |
| Week 13 | 10/04/2023- 15/04/2023 | Architecture of a Simple Processor: An instruction set, Addressing Modes, Instruction formats, Instruction execution in terms of Microinstructions, |

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| Week 14 | 17/04/2023- 21/04/2023 | Concept of interrupt and simple I/O organization. I/O organization: Strobe based and Handshake based communication, Vector and priority interrupts, DMA based data transfer; |
| Week 15 | 24/04/2023- 29/04/2023 | CPU organization with large registers, Stacks and handling of interrupts and subroutines. Concept of Bus, data movement among registers, data movement from/to memory. Revision of Syllabus |

Class: BCA III (6thsem)

Name of the Teacher: Dr. Nidhi Goyal

Subject: Computer Graphics and Multimedia

Period : 2nd

Paper :BCA-16-603

Room No : 101

| S. No | Dates | Topics to be covered |
|---------|----------------------------|---|
| Week 1 | 16/01/2023 – 21/01/2023 | Computer Graphics: A Survey of Computer Graphics: Computer Aided Design, Presentation Graphics, Computer art, Entertainment, Education and Training, Visualization, Image Pressing, Graphical User Interfaces. |
| Week 2 | 23/01/2023- 28/01/2023 | Overview of Graphics Systems: Video Display Devices, Cathode Ray Tube, CRT monitors, |
| Week 3 | 30/01/2023- 04/02/2023 | Flat panel displays: Plasma Panel display, Thin-film electroluminescent displays, LED, Liquid Crystal Displays (LCD), |
| Week 4 | 06/02/2023- 11/02/2023 | Raster Scan Systems, Random Scan Systems. Graphics Monitors and Workstations, Input Devices, Hard-copy devices, Graphics Software. |
| Week 5 | 13/02/2023- 17/02/2023 | Developing Computer Graphics Using 'C': Input-output primitives, setting character and text attributes, |
| Week 6 | 20/02/2023- 25/02/2023 | Changing line styles, Using fill styles to fill images. |
| Week 7 | 27/02/2023- 04/03/2023 | Use these primitives to develop programs like drawing concentric circles, Ellipses, Sine curves, |
| Week 8 | 06/03/2023- 11/03/2023 | Histograms, Pie charts and human face. |
| Week 9 | 13/03/2023- 18/03/2023 | Studying the Features and Developing Computer Graphics Using Standard Graphics package Auto CAD: Features and applications of AutoCAD, Interface, System Requirements, |
| Week 10 | 20/03/2023- 25/03/2023 | The X, Y coordinate system, Dimensioning, Drawing commands, Cleaning Up the drawing, Positioning Commands, |
| Week 11 | 27/03/2023- 01/04/2023 | Editing Commands, Construction Commands, Display Commands. |
| Week 12 | 03/04/2023- 08/04/2023 | Multimedia Applications: What is multimedia, Components of Multimedia, Need of Multimedia, Features of a Multimedia System, Benefits and problems of using Multimedia? System Components: Multimedia system and a conventional system, Basic System components, |

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| Week 13 | 10/04/2023- 15/04/2023 | Subsystems and functions of a Multimedia computer, Multimedia Add-on Cards. Applications: Multimedia in the Real World, Training and Education, Image Processing, Multimedia in home and office |
| Week 14 | 17/04/2023- 21/04/2023 | Multimedia Platforms: Personal computer as a Multimedia System, Limitations of the early Personal Computer as a Multimedia System, The evolution of MPC, Hardware Platforms, |
| Week 15 | 24/04/2023- 29/04/2023 | Software Platforms. Development Tools: Types of development tools, Commercial tools, Stages of Multimedia Application Development. Revision of Syllabus |

Ms. Sheenam

POST GRADUATE GOVERNMENT COLLEGE FOR GIRLS

SECTOR-42, CHANDIGARH

Teaching Plan Even Semester (UG and PG)

Session (2022-2023)

Class: PGDCA 2nd sem.
Subject: Software Engineering
Paper :PGD -2103

Name of the Teacher: Ms. Sheenam
Period :7th(1-6)
Room No : 101

| S. No | Dates | Topics to be covered |
|---------|-------------------------|---|
| Week 1 | 16/01/2023 – 21/01/2023 | Characteristics, Components, Applications, principles of software engineering, skills of software engineer. |
| Week 2 | 23/01/2023- 28/01/2023 | Software Development Life Cycle, Waterfall Life Cycle Model, Boehm's Spiral Life Cycle Model, win Win Spiral Model |
| Week 3 | 30/01/2023- 04/02/2023 | introduction to Software Project management Plan(SPMP), Project scheduling Techniques- Work Breakdown Structure(WBS), |
| Week 4 | 06/02/2023- 11/02/2023 | Project Evaluation Review Technique (PERT), Gantt Charts, Critical path method (CPM) |
| Week 5 | 13/02/2023- 17/02/2023 | introduction to Problem-based estimation, Process based estimation, Cost Estimation Model- COCOMO Model, |
| Week 6 | 20/02/2023- 25/02/2023 | introduction to Software Risks, software Risk management, Risk Management activities |
| Week 7 | 27/02/2023- 04/03/2023 | Risk Assessment and Risk Control, Benefits of Risk management, |
| Week 8 | 06/03/2023- 11/03/2023 | Software Design Process, Design Failures and Remedies |
| Week 9 | 13/03/2023- 18/03/2023 | Structured Analysis and Structured Design introduction to SRS |
| Week 10 | 20/03/2023- 25/03/2023 | SASD)-Goals and Benefits, Data Flow Diagrams (DFD) |
| Week 11 | 27/03/2023- 01/04/2023 | Data Dictionary(DD), Entity-Relationship diagram(ERD) |
| Week 12 | 03/04/2023- 08/04/2023 | Objectives of software Testing, |
| Week 13 | 10/04/2023- 15/04/2023 | Principles of Software Testing,Software Testing Process,Black Box Testing, White Box Testing |
| Week 14 | 17/04/2023- 21/04/2023 | Software quality attributes, Factors affecting Software Quality, |

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| Week 15 | 24/04/2023- 29/04/2023 | Aims of Software Maintenance ,Types of Software Maintenance,Software Maintenance Costs. |
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POST GRADUATE GOVERNMENT COLLEGE FOR GIRLS

SECTOR-42, CHANDIGARH

Teaching Plan Even Semester (UG and PG)

Session (2022-2023)

Class: BCA 4th sem.

Name of the Teacher: Ms. Sheenam

Subject: Database Management System

Period : 2nd (1-2,5-6)

Paper :BCA-16-405

Room No : 202

| S. No | Dates | Topics to be covered |
|---------|-------------------------|---|
| Week 1 | 16/01/2023 – 21/01/2023 | Introduction to File Systems. File Systems vs. DBMS, Characteristics of the Data Base Approach |
| Week 2 | 23/01/2023- 28/01/2023 | Abstraction and Data Integration, Database users, Advantages and Disadvantages of DBMS. Implication of Database approach. Data Base Systems Concepts and Architecture: Introduction to Data Models, Schemas and Instances |
| Week 3 | 30/01/2023- 04/02/2023 | DBMS architecture and Data Independence, Data base languages & Interfaces, DBMS functions and component modules Entity Relationship Model: Entity Types, Entity Sets, Attributes & Keys, Relationships. |
| Week 4 | 06/02/2023- 11/02/2023 | Relationship Types, Roles and Structural Constraints, Design issues, weak entity types, ER Diagrams. Design of an E-R Database Schema, Reduction of an E-R Schema to Tables |
| Week 5 | 13/02/2023- 17/02/2023 | Relational model concepts, Integrity constraints over Relations, Relational Algebra - Basic Operations. Introduction to Network and Hierarchical Data Models. Relational Data Base Design : |
| Week 6 | 20/02/2023- 25/02/2023 | Functional Dependencies, Decomposition, Desirable properties of decomposition, Normal forms based on primary keys .The 12 Rules (Codd's Rule) for an RDBMS. |
| Week 7 | 27/02/2023- 04/03/2023 | Data Types, Creating Tables, Creating a Table with data from Another table, Inserting Values into a Table, Updating Column(s) of a Table |
| Week 8 | 06/03/2023- 11/03/2023 | Deleting Row(s) from a Table, Dropping a Column, Querying database tables, Conditional retrieval of rows. |
| Week 9 | 13/03/2023- 18/03/2023 | Working with Null Values, Matching a pattern from a table, ordering the result of a Query Aggregate Functions, Grouping the Result of a Query, creation and deletion of Views, COMMIT and ROLLBACK, |
| Week 10 | 20/03/2023- 25/03/2023 | Managing privileges with Grant and Revoke Command Functions: Character Functions, Date Functions, Group Functions |
| Week 11 | 27/03/2023- 01/04/2023 | Querying Multiple Tables using Equi-Joins, Cartesian Joins, Outer Joins, Self-Joins, SET Operators: Union, Intersect, Minus; |

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| | | Introduction to Nested Queries |
| Week 12 | 03/04/2023-08/04/2023 | 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 |
| Week 13 | 10/04/2023-15/04/2023 | Scope and Visibility of a Variable, Assignments and Expressions, Operator Precedence, Conditional and Iterative Control, Cursor |
| Week 14 | 17/04/2023-21/04/2023 | Exception Handling in PL/SQL; Predefined Exceptions, User Defined Exceptions. Database Trigger, types of triggers, dropping triggers |
| Week 15 | 24/04/2023-29/04/2023 | Management in PL/SQL, Implicit/explicit Cursor Attributes |

POST GRADUATE GOVERNMENT COLLEGE FOR GIRLS

SECTOR-42, CHANDIGARH

Teaching Plan Even Semester (UG and PG)

Session (2022-2023)

Class: BCA III (Sem VI)

Name of the Teacher: Dr. Anu Chawla & Ms. Sheenam

Subject: E-Commerce

Period : 3rd (1-2) Dr. Anu, 6th (5-6) Ms. Sheenam

Paper : BCA-16-601

Room No : 101

| S. No | Dates | Topics to be covered |
|--------|-------------------------|--|
| Week 1 | 16/01/2023 – 21/01/2023 | Web based E-Commerce: Definition; Need for web based business, Definitions of E-commerce, E-business, difference between E-commerce and E-business |
| Week 2 | 23/01/2023- 28/01/2023 | Steps in setting up business on Internet: Selection & registration of domain name, Problems with Traditional business systems, Aims of E-commerce |
| Week 3 | 30/01/2023- 04/02/2023 | Website development : Planning a website, Steps for creating a website, Elements of a webpage, web authoring tools, Hosting a website: Website hosting considerations. Types of E-commerce: B2B, B2C, C2C, B2G, G2H, G2C |
| Week 4 | 06/02/2023- 11/02/2023 | Online Promotion tools & techniques: Getting links to your site, banner advertisements & measuring advertisement effectiveness; Operational & Strategic benefits of E-commerce, Issues & Challenges in E-commerce. |
| Week 5 | 13/02/2023- 17/02/2023 | Web Traffic Analysis: Hits, View pages, Visits and Other web-reporting tools, Communication Networks; Traditional versus EDI enabled system for document exchange; Components of EDI |
| Week 6 | 20/02/2023- 25/02/2023 | various measures, EDI Standards, EDI Software, EDI Message Structure; EDI Notification Structure; EDI enabled procurement process |
| Week 7 | 27/02/2023- 04/03/2023 | What is Search Engine optimization ,Benefits of EDI: Direct Benefits, Strategic Benefits; EDI in India |
| Week 8 | 06/03/2023- 11/03/2023 | Electronic Payment Systems: E-cash: Purchasing & using of e-cash; EDI Implementation issues; Legal Aspects |
| Week 9 | 13/03/2023- | Electronic Purses their loading with cash and |

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| | 18/03/2023 | use;Definition, Benefits of Mobile Commerce |
| Week 10 | 20/03/2023- 25/03/2023 | E-cheque payment system ,Issues in Mobile Commerce, |
| Week 11 | 27/03/2023- 01/04/2023 | Online Third Party Verified Payment System through Credit & Debit Cards,Mobile CommerceFramework |
| Week 12 | 03/04/2023- 08/04/2023 | ATM based cash disbursement system, Applications of e-commerce, |
| Week 13 | 10/04/2023- 15/04/2023 | Electronic Bill Payment System; Case studies in Retailing,Case study in Banking and e-governance |
| Week 14 | 17/04/2023- 21/04/2023 | Inter bank clearing system. Cyber Crimes: Types, Cyber Forensics, Cyber crimes and IT Act -2000 |
| Week 15 | 24/04/2023- 29/04/2023 | Doubts and Revision |

**Mr. Sudhir Kumar
Sharma**

POST GRADUATE GOVERNMENT COLLEGE FOR GIRLS

SECTOR-42, CHANDIGARH

Teaching Plan Even Semester (UG and PG)

Session (2022-2023)

Class: BCA 2nd Semester

Name of the Teacher: Sudhir Kumar Sharma

Subject: Object Oriented Programming using C++ Period : (2nd and 1st)

Paper : BCA -16 (204)

Room No : 201 (IT Block)

| S. No | Dates | Topics to be covered |
|--------|-------------------------|---|
| Week 1 | 16/01/2023 – 21/01/2023 | Principles of Object Oriented Programming (OOP): Introduction to OOP, Difference between OOP and Procedure Oriented Programming; Concepts: Object, Class, Encapsulation, Abstraction, Polymorphism. |
| Week 2 | 23/01/2023- 28/01/2023 | Inheritance, Applications of OOP. Special operators: scope resolution operator, Member Dereferencing operators, Memory management operators, Manipulators and Type cast operator. |
| Week 3 | 30/01/2023- 04/02/2023 | Structure of a C++ Program and Classes and Objects : Class Declaration : Data Members, Member Functions, Private and Public members, Creating Objects, |
| Week 4 | 06/02/2023- 11/02/2023 | Accessing class data members, Accessing member functions; Class Function Definition: Member Function definition inside the class declaration and outside the class declaration. |
| Week 5 | 13/02/2023- 17/02/2023 | Friend function, inline function, Static members, Function Overloading, Arrays within a class. Arrays of Objects; Objects as function arguments: Pass by value, Pass by reference, Pointers to Objects. |
| Week 6 | 20/02/2023- 25/02/2023 | Constructors: Declaration and Definition, Types of Constructors, (Default, Parameterized, Copy Constructors). Destructors: Definition and use. |
| Week 7 | 27/02/2023- 04/03/2023 | Operator Overloading & Type Conversion: Conversion from basic type to user defined type, User defined to basic type and one user defined conversion to another user defined type. |
| Week 8 | 06/03/2023- | Inheritance: Extending Classes Concept of inheritance, Base |

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| | 11/03/2023 | class, Defining derived classes, Visibility modes : Public, Private, Protected ;Types of Inheritance: Single inheritance : |
| Week 9 | 13/03/2023-18/03/2023 | Privately derived, Publicly derived; Making a protected member inheritable |
| Week 10 | 20/03/2023-25/03/2023 | Multilevel inheritance, Multiple Inheritance. |
| Week 11 | 27/03/2023-01/04/2023 | Ambiguity of multiple inheritance, Hierarchal Inheritance, Hybrid, Nesting of classes. |
| Week 12 | 03/04/2023-08/04/2023 | Polymorphism: Definition, Application and demonstration.Data Abstraction, Encapsulation and Polymorphism. |
| Week 13 | 10/04/2023-15/04/2023 | Early Binding, Polymorphism with pointers, Virtual Functions, Late binding, pure virtual functions. |
| Week 14 | 17/04/2023-21/04/2023 | Exception Handling: Definition, Exception Handling Mechanism : Throwing mechanism and Catching Mechanism, Rethrowing an Exception |
| Week 15 | 24/04/2023-29/04/2023 | File Processing :Opening and closing of file, Binary file operations, structures and file operations, classes and file operations, Random file processing. |

POST GRADUATE GOVERNMENT COLLEGE FOR GIRLS

SECTOR-42, CHANDIGARH

Teaching Plan Even Semester (UG and PG)

Session (2022-2023)

Class: M.Sc(IT)

Name of the Teacher: Sudhir kumar Sharma

Subject: E-Commerce and Emerging Trends

Period :1st and 3rd

Paper : MS-65

Room No : LAB 3 (GF &101) (IT Block)

| S. No | Dates | Topics to be covered |
|--------|-------------------------|--|
| Week 1 | 16/01/2023 – 21/01/2023 | Traditional Commerce vs Electronic Commerce, Types of E-Commerce, E-Commerce infrastructure: Hardware and Software requirements, Electronic Data Interchange (EDI) : |
| Week 2 | 23/01/2023- 28/01/2023 | EDI enabled procurement process and its benefits; Components of EDI system: EDI standards, EDI software, communication networks; Electronic Payment Methods : Types of Electronic Payment Systems, Digital Token Based Electronic Payment Systems, Smart cards and Electronic payment Systems, Credit Card-Based Electronic Payment Systems |
| Week 3 | 30/01/2023- 04/02/2023 | Risk and Electronic payment Systems. The legal and policy environment of E-Commerce; Intellectual Property, advertising and consumer protection; |
| Week 4 | 06/02/2023- 11/02/2023 | Copyright Law; Patent Law; Network Security and Firewalls; Client-Server Network Security Threats; Data and Message Security; |
| Week 5 | 13/02/2023- 17/02/2023 | Encrypted Documents and E-mail; Digital Signatures. Business Intelligence: Introduction to Business Intelligence, Digital data and its types – structured, semi-structured and unstructured, |
| Week 6 | 20/02/2023- 25/02/2023 | Introduction to Online Transaction Processing (OLTP), Online Analytical Processing (OLAP), Different OLAP architectures: MOLAP, ROLAP, HOLAP, Comparison of OLTP and OLAP. |
| Week 7 | 27/02/2023- 04/03/2023 | BI Definitions and need, BI Component Framework, Business Applications of BI. Case Studies: Supply Chain management, Banking, Online Reservation Systems, Online Publishing. Parallel Computing: Introduction and use, Flynn's Classical Taxonomy: SISD, SIMD, MISD |
| Week 8 | 06/03/2023- 11/03/2023 | MIMD; Parallel Computer Memory Architectures: Shared Memory, Distributed Memory, Hybrid Distributed-Shared |

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| | | Memory; Parallel Programming Models: |
| Week 9 | 13/03/2023-18/03/2023 | Shared Memory Model, Threads Model, Distributed Memory/Message Passing Model, Data Parallel Model, Hybrid Model, SPMD and MPMP, |
| Week 10 | 20/03/2023-25/03/2023 | Introduction to Parallel Virtual Machine and Message Passing Interface, Supercomputers. |
| Week 11 | 27/03/2023-01/04/2023 | Cloud Computing: Introduction and use, Architecture, Service Models: infrastructure as a service, platform as a service, and software as a service; |
| Week 12 | 03/04/2023-08/04/2023 | Grid computing: Introduction and benefits, virtual organisations, grid Architecture and its relationship to other distributed technologies, grid application areas. |
| Week 13 | 10/04/2023-15/04/2023 | Mobile Computing : Definition, Guided Transmission, Unguided Transmission; Mobile computing architecture, |
| Week 14 | 17/04/2023-21/04/2023 | Mobile Devices, Mobile System Networks: Cellular, WLAN, Ad hoc networks; Introduction to : GSM,CDMA,GPRS,EDGE; Introduction to Mobile Databases; |
| Week 15 | 24/04/2023-29/04/2023 | Mobile Applications; Mobile Application Languages; features of Mobile Operating system: Palm OS , Symbian, Android. |

POST GRADUATE GOVERNMENT COLLEGE FOR GIRLS

SECTOR-42, CHANDIGARH

Teaching Plan Even Semester (UG and PG)

Session (2022-2023)

Class: BCA 4th Semester

Name of the Teacher: Sudhir Kumar Sharma

Subject: Information System Design and Implementation Period :2nd and 3rd

Paper :BCA-16-303

Room No : 202 (IT Block)

| S. No | Dates | Topics to be covered |
|--------|-------------------------|---|
| Week 1 | 16/01/2023 – 21/01/2023 | Systems Concepts and Information Systems Environment: Definition and characteristics of a system. Elements of a system Environment: Boundaries and interface. Types of systems. |
| Week 2 | 23/01/2023- 28/01/2023 | Physical or Abstract Systems, Open and Closed System, Man - made information systems. The System Development Life Cycle: Introduction to various phases-Recognition of Need, Feasibility Study, Analysis, Design, Implementation, Post–Implementation and Maintenance. |
| Week 3 | 30/01/2023- 04/02/2023 | The Role of System Analyst: Skills of a System Analyst, various roles of the Analyst. System Planning and the Initial Investigation: Bases for planning in system analysis, Initial investigation, determining the users information requirements,. |
| Week 4 | 06/02/2023- 11/02/2023 | Problem definition and Project Initiation, Background Analysis, Fact Finding, Fact Analysis, Determination of Feasibility |
| Week 5 | 13/02/2023- 17/02/2023 | Information Gathering: Introduction, Information Gathering tools: Review of Literature, Procedures and forms. On -site observation. Interviews and questionnaires. |
| Week 6 | 20/02/2023- 25/02/2023 | Tools of Structured Analysis: Various tools of structured analysis: Data flow diagram (DFD), Data Dictionary, Decision tree and structured English, Decision table, Pros and cons of each tools. |
| Week 7 | 27/02/2023- 04/03/2023 | Feasibility Study: System Performance-statement of Constraints, Identification of Specific System |
| Week 8 | 06/03/2023- 11/03/2023 | Objectives, description of Outputs. Feasibility Study – Feasibility considerations, |
| Week 9 | 13/03/2023- 18/03/2023 | Steps in feasibility analysis. Feasibility Report. System Design: The Process of Design-Logical and Physical Design, |

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| Week 10 | 20/03/2023-25/03/2023 | Design methodologies: Structured design, Functional Decomposition. |
| Week 11 | 27/03/2023-01/04/2023 | System Testing and Quality Assurance: Testing, System testing, Quality assurance and its goals in its system life cycle, Levels of quality assurance, Trends in testing. |
| Week 12 | 03/04/2023-08/04/2023 | Implementation and Software Maintenance: Introduction, Conversion- Activity network for Conversion, File Conversion, |
| Week 13 | 10/04/2023-15/04/2023 | User Training: Elements of user Training Post implementation review. Software Maintenance - Primary activities of a Maintenance Procedure, Reducing Maintenance Costs. |
| Week 14 | 17/04/2023-21/04/2023 | Hardware and Software Selection: Types of Software, Procedure for Hardware/Software selection: Major phases in selection, Evaluation and Validation. |
| Week 15 | 24/04/2023-29/04/2023 | Vendor Selection, Post – Installation Review. Software selection- Criteria for Software Selection, the evaluation process. |