I.B. (PG) COLLEGE, PANIPAT
LESSON PLAN
SESSION 2023-24 (01.01.2024 to 30.04.2024)

Weekly Lesson Plan (Even Semester)

UG (IV / VI - Semester)

Name of the Paper:- PROGRAMMING IN C++   Class: BCA 4th SEM Section (A & B)

Name of the Teachers (Section Wise) : Prof. Vinay Bharti

WEEK	DATE	TOPICS
1	January (1-6)	Inheritance: Rules of Derivations – Private, Protected and Public Derivations, Different Forms of Inheritance – Single, Multiple Inheritance
	SUNDAY - 07.01.2024	
2	January (8-13)	Multilevel, Hierarchical and Multipath Inheritance
	SUNDAY - 14.01.2024	
3	January (15-16) January (18-20)	Roles of Constructors and Destructors in Inheritance.
	HOLIDAY - 17.01.2024-SHRI GURU GOBIND SINGH JI JAYANTI	
	SUNDAY - 21.01.2024	
4	January (22-25) January (27)	Programming Examples Of Inheritance
	HOLIDAY - 26.01.2024 - REPUBLIC DAY	
	SUNDAY - 28.01.2024	
5	January (29-31) February (1-3)	Dynamic Polymorphism: Function Overriding, Virtual Function and its Need, Pure Virtual Function, Abstract Class, Virtual Derivation, Virtual Destructor
	SUNDAY - 04.02.2024	

6	**February** (5-10)	Type Conversion: Basic Type Conversion, Conversion Between Objects And Basic Types, Conversion Between Objects Of Different Classes.

SUNDAY - 11.02.2024

7	**February** (12-13) **February** (15-17)	Assignment 1
		Revision Of Unit 1
		Conditonal Test Of Unit 1

HOLIDAY 14.02.2024 - BASANT PANCHMI/SIR CHHOTU RAM JAYANTI

SUNDAY - 18.02.2024

8	**February** (19-24)	Programming Examples Of Polymorphism

SUNDAY - 25.02.2024

9	**February** (26-29) **March** (1-2)	Genericity in C++: Template Function, Template Class, Inheritance and Templates.

SUNDAY - 03.03.2024

10	**March** (4-7) **March** (9)	Revision Of Unit 2

HOLIDAY - 08.03.2024 - MAHA SHIVRATRI

SUNDAY - 10.03.2024

11	**March** (11-16)	Exception Handling: try, throw and catch constructs, rethrowing an exception, catch all Handlers.

SUNDAY - 17.03.2024

12	March (18-22)	Files I/O in C++: Class Hierarchy for Files I/O, Text versus Binary Files, Opening and Closing Files

	HOLI VACATION - 23.03.2024 - 31.03.2024	
	(SHAHEEDI DIWAS - 23.03.2024)	

13	April (1-6)	Revision Of Unit 3

	SUNDAY - 07.04.2024	

14	April (8-10) April (12-13)	File Pointers, Manipulators and Error Handling

	HOLIDAY - 11.04.2024 - ID-UL-FITR	
	SUNDAY - 14.04.2024	

15	April (15-16) April (18-20)	Revision

	HOLIDAY - 17.04.2024 - RAM NAVMI	
	SUNDAY - 21.04.2024	

16	April (22-27)	Revision

	SUNDAY - 28.04.2024	

17	April (29-30)	Revision

	University Examinations w.e.f. 01.05.2024	

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LESSON PLAN
SESSION 2023-24 (01.01.2024 to 30.04.2024)

Weekly Lesson Plan (Even Semester)

UG (IV / VI - Semester)   4th SEMESTER

Name of the Paper:- ADVANCE DATA STRUCTURE   Class: BCA B SECTION

Name of the Teachers (Section Wise) :PREETI MALIK

WEEK	DATE	TOPICS
1	January (1-6)	
		Tree: Introduction, Definition
		Representing Binary tree in memory
		Traversing binary trees
SUNDAY - 07.01.2024		
2	January (8-13)	
		Traversal algorithms using stacks
		Traversal algorithms using stacks
SUNDAY - 14.01.2024		
3	January (15-16) January (18-20)	
		Binary search trees
		Binary search trees: introduction, storage
		Searching
HOLIDAY - 17.01.2024-SHRI GURU GOBIND SINGH JI JAYANTI		
SUNDAY - 21.01.2024		
4	January (22-25) January (27)	
		Insertion
		deletion in a Binary search tree
HOLIDAY - 26.01.2024 - REPUBLIC DAY		
SUNDAY - 28.01.2024		
5	January (29-31) February (1-3)	
		Huffman's algorithm
		General trees
		Graph: Introduction
SUNDAY - 04.02.2024		

6	**February** **(5-10)**	
		Graph theory terminology
		Sequential and linked representation of graphs
		Sequential and linked representation of graphs
SUNDAY - 11.02.2024		
7	**February** **(12-13)** **February** **(15-17)**	
		operations on graphs
		traversal algorithms in graphs and their implementation
		traversal algorithms in graphs and their implementation
HOLIDAY 14.02.2024 - BASANT PANCHMI/SIR CHHOTU RAM JAYANTI		
SUNDAY - 18.02.2024		
8	**February** **(19-24)**	
		Warshall's algorithm for shortest path
		Warshall's algorithm for shortest path
		Dijkstra algorithm for shortest path
SUNDAY - 25.02.2024		
9	**February** **(26-29)** **March** **(1-2)**	
		Sorting
		Internal & external sorting
		ASSIGNMENT-1
SUNDAY - 03.03.2024		
10	**March** **(4-7)** **March** **(9)**	
		Radix sort
		Quick sort
HOLIDAY - 08.03.2024 - MAHA SHIVRATRI		
SUNDAY - 10.03.2024		
11	**March** **(11-16)**	
		Heap sort, Merge sort
		Tournament sort
		Comparison of various sorting and searching algorithms on the basis of their complexity
SUNDAY - 17.03.2024		

12	**March** **(18-22)**	
		CONDITIONAL TEST
		Files
		Introduction Attributes of a file
HOLI VACATION - 23.03.2024 - 31.03.2024		
(SHAHEEDI DIWAS - 23.03.2024)		
13	**April** **(1-6)**	
		Classification of files
		File operations
		Comparison of various types of files
SUNDAY - 07.04.2024		
14	**April** **(8-10)** **April** **(12-13)**	
		ASSIGNMENT-2
		File organization
HOLIDAY - 11.04.2024 - ID-UL-FITR		
SUNDAY - 14.04.2024		
15	**April** **(15-16)** **April** **(18-20)**	
		Sequential
		Indexed-sequential
		Random-access file
HOLIDAY - 17.04.2024 - RAM NAVMI		
SUNDAY - 21.04.2024		
16	**April** **(22-27)**	
		Hashing
		Hashing: Introduction
		Collision resolution
SUNDAY - 28.04.2024		
17	**April** **(29-30)**	
		REVISION
		REVISION
University Examinations w.e.f. 01.05.2024		

I.B. (PG) COLLEGE, PANIPAT

LESSON PLAN

SESSION 2023-24 (01.01.2024 to 30.04.2024)

Weekly Lesson Plan (Even Semester)

PG (II / IV - Semester)

Name of the Paper:- E-Commerce   Class: BCA 2nd yr   SEC: A

Name of the Teachers (Section Wise) : Mrs. Pooja

WEEK	DATE	TOPICS
1	January (1-6)	Introduction to E-Commerce:-Business operations; E-commerce practices and traditional business practices;
	SUNDAY - 07.01.2024	
2	January (8-13)	concepts of b2b, b2c,c2c,b2g,g2h,g2c; ; Features of E-Commerce Types of Ecommerce Systems,
	SUNDAY - 14.01.2024	
3	January (15-16) January (18-20)	Elements of E-Commerce, principles of E-Commerce,
	HOLIDAY - 17.01.2024-SHRI GURU GOBIND SINGH JI JAYANTI	
	SUNDAY - 21.01.2024	
4	January (22-25) January (27)	Benefits and Limitations of E-Commerce Elements of E-Commerce, test-1
	HOLIDAY - 26.01.2024 - REPUBLIC DAY	
	SUNDAY - 28.01.2024	
5	January (29-31) February (1-3)	Management Issues relating to e-commerce. Operations of E-commerce: Credit card transaction Secure Hypertext Transfer Protocol (SHTP)
	SUNDAY - 04.02.2024	

6	February (5-10)	Electronic payment systems;
		Secure electronic transaction (SET)
		SET`s encryption; Process;

SUNDAY - 11.02.2024

7	February (12-13) February (15-17)	; Smart cards, Indian payment models.
		Applications in governance: EDI in governance; E-government;

HOLIDAY 14.02.2024 - BASANT PANCHMI/SIR CHHOTU RAM JAYANTI

SUNDAY - 18.02.2024

8	February (19-24)	E-Governance applications of Internet;
		concept of government–to- business, business-to-government and citizen-to-government;
		E-governance models;

SUNDAY - 25.02.2024

9	February (26-29) March (1-2)	Private sector interface in Egovernance. Applications in B2C:
		Consumers shopping procedure on the Internet;
		; Impact on disinter mediation and re-intermediation

SUNDAY - 03.03.2024

10	March (4-7) March (9)	Global market; Strategy of traditional department stores.
		assignment-1
		Products in b2c model;

HOLIDAY - 08.03.2024 - MAHA SHIVRATRI

SUNDAY - 10.03.2024

11	March (11-16)	success factors of e-brokers; Broker-based services on-line
		Online travel tourism services ,
		Benefits and impact of e-commerce on travel industry;

SUNDAY - 17.03.2024

12	March (18-22)	Deal estate market online stock trading and its benefits; Online banking and its benefits

HOLI VACATION - 23.03.2024 - 31.03.2024
(SHAHEEDI DIWAS - 23.03.2024)

13	April (1-6)	; Online financial services and their future; E-auctions – benefits, implementation and impact.
		test-1

SUNDAY - 07.04.2024

14	April (8-10) April (12-13)	Applications in B2B: Key technologies for b2b architectural models of b2b, characteristics of the supplier –oriented marketplace, e, buyer-oriented marketplace and intermediary-oriented marketplace;

HOLIDAY - 11.04.2024 - ID-UL-FITR
SUNDAY - 14.04.2024

15	April (15-16) April (18-20)	Just In Time delivery in b2b Internet-based EDI from traditional EDI; Marketing Issues in b2b. Emerging Business models: Retail model; Media model;

HOLIDAY - 17.04.2024 - RAM NAVMI
SUNDAY - 21.04.2024

16	April (22-27)	advisory model, made-to-order manufacturing model; Do-it- yourself model ; Emerging hybrid ; Emerging models in India, Internet & E-Commerce scenario in India; security Issues; Legal aspects of E-commerce

SUNDAY - 28.04.2024

17	April (29-30)	assignment-2
		revision
		revision
		revision

University Examinations w.e.f. 01.05.2024

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Weekly Lesson Plan (Even Semester)

UG (IV / VI - Semester) IV SEM

Name of the Paper:- RELATIONAL DATABASE MANAGEMENT SYSTEM,   Class: BCA II

Name of the Teachers (Section Wise) : DR. NEETU MANOCHA

WEEK	DATE	TOPICS
1	January (1-6)	
		Relational Model Concepts, Codd's Rules for Relational Model
		CONTINUE
		Relational Algebra:-Selection and Projection
SUNDAY - 07.01.2024	
2	January (8-13)	
		Set Operation, Renaming Join and Division
		CONTINUE
		Relational Calculus: Tuple Relational Calculus
	SUNDAY - 14.01.2024	
3	January (15-16) January (18-20)	
		Domain Relational Calculus
		Functional Dependencies
		Normalization:-Purpose
	HOLIDAY - 17.01.2024-SHRI GURU GOBIND SINGH JI JAYANTI	
	SUNDAY - 21.01.2024	
4	January (22-25) January (27)	
		Data Redundancy and Update Anomalies
		CONTINUE
		Functional Dependencies:-Full Functional Dependencies and Transitive Functional Dependencies
	HOLIDAY - 26.01.2024 - REPUBLIC DAY	
	SUNDAY - 28.01.2024	
	January	

5	(29-31) February (1-3)	Characteristics of Functional Dependencies, Decomposition and Normal Forms (1NF, 2NF, 3NF & BCNF)
		CONTINUE
		CONTINUE
SUNDAY - 04.02.2024		

6	February (5-10)			
		SQL: Data Definition and data types		
		CONTINUE		
		SQL Operators		

SUNDAY - 11.02.2024

7	February (12-13)			
		ASSIGNMENT - I		
	February (15-17)	Specifying Constraints in SQL		
		CONTINUE		

HOLIDAY 14.02.2024 - BASANT PANCHMI/SIR CHHOTU RAM JAYANTI

SUNDAY - 18.02.2024

8	February (19-24)			
		Basic DDL		
		CONTINUE		
		DML COMMANDS		

SUNDAY - 25.02.2024

9	February (26-29)			
		DCL commands in SQL		
	March (1-2)	CONTINUE		
		Simple Queries		

SUNDAY - 03.03.2024

10	March (4-7)			
		Nested Queries		
	March (9)	Tables, Views		
		Indexes, Aggregate Functions		

HOLIDAY - 08.03.2024 - MAHA SHIVRATRI

SUNDAY - 10.03.2024

11	March (11-16)			
		CONDITIONAL TEST		
		PL/SQL architecture		

SUNDAY - 17.03.2024

12	**March** **(18-22)**	PL/SQL and SQL*Plus	
		CONTINUE	
		PL/SQL Basics, Advantages of PL/SQL	
HOLI VACATION - 23.03.2024 - 31.03.2024 **(SHAHEEDI DIWAS - 23.03.2024)**			
13	**April** **(1-6)**	The Generic PL/SQL Block: PL/SQL Execution Environment	
		CONTINUE	
		PL/SQL Character set	
SUNDAY - 07.04.2024			
	April **(8-10)**		
14	**April** **(12-13)**	ASSIGNMENT - II	
		and Data Types	
		CONTINUE	
HOLIDAY - 11.04.2024 - ID-UL-FITR			
SUNDAY - 14.04.2024			
	April **(15-16)**		
		Control Structure in PL/SQL	
15	**April** **(18-20)**		
		Cursors in PL/SQL	
		CONTINUE	
HOLIDAY - 17.04.2024 - RAM NAVMI			
SUNDAY - 21.04.2024			
16	**April** **(22-27)**	Triggers in PL/SQL	
		Programming using PL/SQL	
		CONTINUE	
SUNDAY - 28.04.2024			
	April **(29-30)**	REVISION	
17		REVISION	
		REVISION	
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Weekly Lesson Plan (Even Semester)

UG (IV / VI - Semester)

Name of the Paper:-   Management information system.   Class: B.C.A 2nd Secion A

Name of the Teachers (Section Wise) : Mrs.Neeru

WEEK	DATE	TOPICS
1	January (1-6)	
		introduction to system and Basic concept.
		types of system
		the system Approach.
SUNDAY - 07.01.2024		
2	January (8-13)	
		definition and characteristics. Types of information
		definition and characteristics. Types of information
		role of Decision-Making,
SUNDAY - 14.01.2024		
3	January (15-16) January (18-20)	Sub-Systems of an Information system EDP and MIS management level EDP/MIS/DSS.
HOLIDAY - 17.01.2024-SHRI GURU GOBIND SINGH JI JAYANTI		
SUNDAY - 21.01.2024		
4	January (22-25) January (27)	An overview of Management Information System Definition & Characteristics, Components of MIS Frame Work for Understanding MIS:
HOLIDAY - 26.01.2024 - REPUBLIC DAY		
SUNDAY - 28.01.2024		
5	January (29-31) February (1-3)	Information requirements & Levels of Management Simon's Model of decision-Making, Structured Vs Un-structured decisions,
SUNDAY - 04.02.2024		

6	**February** **(5-10)**		
		Formal vs. Informal system	
		Assignment 1	
		An overview of Management Information System	

SUNDAY - 11.02.2024

7	**February** **(12-13)** **February** **(15-17)**	Developing Information Systems sub Developing Information Systems sub test

HOLIDAY 14.02.2024 - BASANT PANCHMI/SIR CHHOTU RAM JAYANTI

SUNDAY - 18.02.2024

8	**February** **(19-24)**		
		Analysis of Information Systems	
		desgin of information system	
		Assignment 2	

9	**February** **(26-29)** **March** **(1-2)**	Implementation evaluation of system test -1

SUNDAY - 03.03.2024

10	**March** **(4-7)** **March** **(9)**	Pitfalls in MIS Development Pitfalls in MIS Development system Functional MIS

HOLIDAY - 08.03.2024 - MAHA SHIVRATRI

SUNDAY - 10.03.2024

11	**March** **(11-16)**	A Study of Personnel , Financial and production mis Introduction to e-business system

SUNDAY - 17.03.2024

12	**March** **(18-22)**	ecommerce – technologies, applications, Decision support systems
HOLI VACATION - 23.03.2024 - 31.03.2024		
(SHAHEEDI DIWAS - 23.03.2024)		
13	**April** **(1-6)**	
		test-2
		Decision support systems
		Decision support systems sub topic
SUNDAY - 07.04.2024		
14	**April** **(8-10)** **April** **(12-13)**	
		revision
		test
HOLIDAY - 11.04.2024 - ID-UL-FITR		
SUNDAY - 14.04.2024		
15	**April** **(15-16)** **April** **(18-20)**	
		control and decision-making 1
		control and decision-making
		control and decision-making 2
HOLIDAY - 17.04.2024 - RAM NAVMI		
SUNDAY - 21.04.2024		
16	**April** **(22-27)**	
		revision
		revision
		revision
SUNDAY - 28.04.2024		
17	**April** **(29-30)**	
		test
		test
University Examinations w.e.f. 01.05.2024		