LESSON PLAN

SESSION 2022-23 (01.02.2023 to 16.05.2023)

Weekly Lesson Plan Even Semester)

UG (II / IV / VI - Semester) 4th Semester

Name of the Paper:- ADVANCED DATA STRUCTURE Class: BCA 2nd

Name of the Teachers (Section Wise): PREETI MALIK

WEEK	DATE	TOPICS
		Tree: Introduction, Definition
	February	
1	(1-4)	
	(- ',	
	SUN	NDAY - 05.02.2023 Holiday (Guru Ravidass Jayanti)
		Representing Binary tree in memory
		Traversing binary trees
2	February	Traversal algorithms using stacks
_	(6-11)	
	T	SUNDAY - 12.02.2023
		Binary search trees
	February	Binary search trees: introduction, storage
3	(13-17)	Searching
		HOLIDAY - 18.02.2023 (Maha Shivratri)
		SUNDAY - 19.02.2023 (Walla Siliviati)
		Huffman's algorithm
		General trees
	February	ASSIGNMENT-1
4	(20-25)	7 6615 · · · · · 2
	(====,	
		SUNDAY - 26.02.2023
		Graph: Introduction
	February	Graph theory terminology
5	(27-28)	Sequential and linked representation of graphs
	March	
	(1-4)	
		GUNDAY OF CO COCC
		SUNDAY - 05.03.2023
	1	Holi Vacations - 05.03.2023 to 12.03.2023
		operations on graphs
	March	traversal algorithms in graphs and their implementation
7	March	Warshall's algorithm for shortest path
	(13-18)	
		SUNDAY - 19.03.2023
		30NDA1 - 13.03.2023

	1	I-m
8		Dijkstra algorithm for shortest path
	March	Sorting
	(20-25)	Internal & external sorting
		SUNDAY - 26.03.2023
	HOLIDA	Y 23.03.2023 Shaheedi Diwas
	· ·	CLASS TEST
	March	Radix sort
9	(27-31)	Quick sort
	April	
	(1)	
		HOLIDAY - 30.03.2023 (Ram Navmi)
		SUNDAY - 02.04.2023
		Heap sort Merge sort ,Tournament sort
9	April	Weige 3011, Tournament 3011
	(3-8)	
		HOLIDAY - 04.04.2023 (Mahavir Jayanti)
		SUNDAY - 09.04.2023
		Comparison of various costing and according algorithms on the basis of their according
	April	Comparison of various sorting and searching algorithms on the basis of their complexity ASSIGNMENT-2
10	(10-15)	Files: Introduction Attributes of a file
	(10-13)	THE THE GOOD TO THE
		SUNDAY - 16.04.2023
	Н	DLIDAY - 14.04.2023 (DR.B.R.Ambedkar Jayanti)
		Classification of files
11	April	File operations Comparison of various types of files
	(17-21)	Companison of various types of mes
		SUNDAY - 23.04.2023
	Н	oliday Id-Ul-Fitr/Parshuram Jayanti (Saturaday)
		File organization
	A:1	Sequential Indexed-sequential
12	April (24-29)	Indexed-sequential
	(24-29)	
		SUNDAY - 30.04.2023
		Random-access file
		CONDITIONAL TEST
13		1-Hashing
	6)	
		SUNDAY - 07.05.2023
		Hashing: Introduction
		Collision resolution
14	May (8-13)	Class Test
		SUNDAY - 14.05.2023
	May	REVISION
14	(15-16)	REVISION
	(-5 20)	Examination 17.05.2023 Onwards.

LESSON PLAN

SESSION 2022-23 (01.02.2023 to 16.05.2023)

Weekly Lesson Plan Even Semester)

UG (II / IV / VI - Semester) 4th Semester

Name of the Paper:-Advanced PROGRAMMING USING C++

Class:BCA 2nd

Name of the Teachers (Section Wise): VINAY BHARTI

		T
WEEK	DATE	TOPICS
1	February	Dynamic Polymorphism
_	(1-4)	Function Overriding
		Virtual Function and its Need
	1	SUNDAY - 05.02.2023 Holiday (Guru Ravidass Jayanti)
2	February	
2	(6-11)	Pure Virtual Function
		Abstract Class
		Virtual Derivation
	!	SUNDAY - 12.02.2023
3	February	
	(13-17)	Virtual Destructor
		Type Conversion
		HOLIDAY - 18.02.2023 (Maha Shivratri)
		SUNDAY - 19.02.2023
	T	SUNDAY - 19.02.2023
4	February	
	(20-25)	Basic Type Conversion
		Conversion between objects and basic types
		ASSIGNMENT-1
	1	SUNDAY - 26.02.2023
	February	
5	(27-28)	
	March	Conversion between objects of different classes
	(1-4)	Inheritance: Rules of Derivations – Private
		Protected and Public Derivations
		SUNDAY - 05.03.2023
		Holi Vacations - 05.03.2023 to 12.03.2023
_	March	
7	(13-18)	Different Forms of Inheritance – Single
		Multiple, Multilevel
		Hierarchical and Multipath
		SUNDAY - 19.03.2023
		30.12.11 20.00.12.12
8	March	
•	(20-25)	CONDITIONAL TEST
		CONDITIONAL TEST
		Inheritance Roles of Constructors and Destructors in Inheritance
	l	SUNDAY - 26.03.2023
	HOLI	DAY 23.03.2023 Shaheedi Diwas

	1	
	March	
9	(27-31)	
	April	
	(1)	Genericity in C++
	ļ	Templates in C++
		HOLIDAY - 30.03.2023 (Ram Navmi)
	I	SUNDAY - 02.04.2023
	April	
9	(3-8)	Function templates
		Class templates in C++ ASSIGNMENT-2
		HOLIDAY - 04.04.2023 (Mahavir Jayanti) SUNDAY - 09.04.2023
	I	SUNDAY - 09.04.2023
	April	
10	(10-15)	
		Exception Handling in C++
		try, throw and catch
		SUNDAY - 16.04.2023
	1	HOLIDAY - 14.04.2023 (DR.B.R.Ambedkar Jayanti)
	April	
11	(17-21)	
	` '	try, throw and catch
	ļ.	Just In Time delivery in b2b; Internet-based EDI from traditional EDI
		SUNDAY - 23.04.2023
	T	Holiday Id-Ul-Fitr/Parshuram Jayanti (Saturaday)
	A:1	
12	April	
	(24-29)	Files I/O in C++
		Files I/O in C++ Class Hierarchy for Files I/O
		SUNDAY - 30.04.2023
		30NDA1 - 30.04:2023
	May	
13	(1-6)	CLACCITECT
	(1-0)	CLASS TEST
		Text Files Binary Files
		SUNDAY - 07.05.2023
		30NDA1 07.03.E0E3
	May	
14	(8-13)	Opening and Closing Files
	(0-13)	File Pointers
		Operation on files.
		SUNDAY - 14.05.2023
	May	3011511 2110312020
14	-	
14	(15-16)	Examination 17.05.2023 Onwards.

LESSON PLAN

SESSION 2022-23 (01.02.2023 to 16.05.2023)

Weekly Lesson Plan Even Semester)

UG (II / IV / VI - Semester) 4th Semester

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

Name of the Teachers (Section Wise) :PREETI MALIK

		T-onice
WEEK	DATE	TOPICS
	F-II	
1	February	Introduction to E-Commerce:-Business operations
	(1-4)	E-commerce practices vs. traditional business practices
		concepts of b2b, b2c,c2c,b2g,g2h,g2c
	S	UNDAY - 05.02.2023 Holiday (Guru Ravidass Jayanti)
2	February	
_	(6-11)	Features of E-Commerce, Types of Ecommerce Systems
		Elements of E-Commerce, principles of E-Commerce
		Benefits and Limitations of E-Commerce
		SUNDAY - 12.02.2023
_	February	
3	(13-17)	Management Issues relating to e-commerce. Operations of E-commerce
		3,000
		Credit card transaction; Secure Hypertext Transfer Protocol (SHTP); Electronic payment systems
		HOLIDAY - 18.02.2023 (Maha Shivratri)
		SUNDAY - 19.02.2023
	February	
4	(20-25)	Secure electronic transaction (SET) ; SET's encryption; Process
	(====)	Cybercash; Smart cards; Indian payment models
		ASSIGNMENT-1
		SUNDAY - 26.02.2023
		SONDAT EDITECTS
	February	
	(27-28)	Applications in governance: EDI in governance
5	March	E-government; E-Governance applications of Internet; concept of government –to-
	(1-4)	business
	(1-4)	Dusiness
		business-to-government and citizen-to-government; E-governance models
		SUNDAY - 05.03.2023
		Holi Vacations - 05.03.2023 to 12.03.2023
	T	11011 Vacations - 03.03.2023 to 12.03.2023
7	March	
'	(13-18)	Private sector interface in E governance. Applications in B2C
		Consumers shopping procedure on the Internet; Impact on disinter mediation and re-intermediation
		Global market; Strategy of traditional department stores
		SUNDAY - 19.03.2023

	T	
	March	
8	(20-25)	CONDITIONAL TEST
	(20-23)	CONDITIONAL 1531
		Products in b2c model; success factors of e-brokers; Broker-based services on-line
		SUNDAY - 26.03.2023
	HOLID	AY 23.03.2023 Shaheedi Diwas
		25/55/2025 Shuffeed Shud
	March	
	(27-31)	
9	April	
	(1)	On line travel tourism services; Benefits and impact of e-commerce on travel industry
	` '	Deal estate market; online stock trading and its benefits
		HOLIDAY - 30.03.2023 (Ram Navmi)
		SUNDAY - 02.04.2023
9	April	
	(3-8)	Online banking and its benefits; On line financial services and their future
		E-auctions – benefits, implementation and impact
		ASSIGNMENT-2
		HOLIDAY - 04.04.2023 (Mahavir Jayanti)
	T	SUNDAY - 09.04.2023
	April	
10	(10-15)	A 11 11 1 200 14 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
	(10-13)	Applications in B2B: Key technologies for b2b
		architectural models of b2b, characteristics of the supplier –oriented marketplace
		SUNDAY - 16.04.2023
		HOLIDAY - 14.04.2023 (DR.B.R.Ambedkar Jayanti)
11	April	
	(17-21)	buyer-oriented marketplace and intermediary-oriented marketplace
		Just In Time delivery in b2b; Internet-based EDI from traditional EDI
		SUNDAY - 23.04.2023
		Holiday Id-Ul-Fitr/Parshuram Jayanti (Saturaday)
12	April	
	(24-29)	Marketing Issues in b2b. Emerging Business models: Retail model
		Media model; advisory model, made-to-order manufacturing model
		Do-it- yourself model; Information service model; Emerging hybrid SUNDAY - 30.04.2023
	T	3UNDAT - 3U.U4.2U23
	May	
13	(1-6)	CLASS TEST
		models ,Emerging models in India
		Internet & E-Commerce scenario in India
		SUNDAY - 07.05.2023
14	May (8-13)	
		Internet security Issues
		Legal aspects of E-commerce
		REVISION CLANDAY 44 OF 2022
	T	SUNDAY - 14.05.2023
14	May	
	(15-16)	Franciscotics 47 05 2022 C
		Examination 17.05.2023 Onwards.

LESSON PLAN

SESSION 2022-23 (01.02.2023 to 16.05.2023)

Weekly Lesson Plan Even Semester)

UG (IV - Semester)

Name of the Paper:- RDBMS Class: BCA

Name of the Teachers (Section Wise): Prof. Mohit

WEEK	DATE	TOPICS	
TTEL	DAIL	Relational Model Concepts	
	February	netational woder concepts	
1	(1-4)		
	(2 4)		
	SUNDA	AY - 05.02.2023 Holiday (Guru Ravidass Jayanti)	
		Codd's Rules for Relational Model	
		Relational Algebra:-Selection and Projection	
2	February	Set Operation	
_	(6-11)		
		SUNDAY - 12.02.2023	
		Renaming, Join and Division	
		Relational Calculus	
3	February	Tuple Relational Calculus	
	(13-17)	Taple Netational ducates	
		HOLIDAY - 18.02.2023 (Maha Shivratri)	
		SUNDAY - 19.02.2023	
		Domain Relational Calculus	
		Revised	
4	February	Functional Dependencies	
	(20-25)		
		SUNDAY - 26.02.2023	
		Normalization:-Purpose	
	February	Data Redundancy	
_	(27-28)	Update Anomalies	
5	March		
	(1-4)		
		SUNDAY - 05.03.2023	
	ŀ	Holi Vacations - 05.03.2023 to 12.03.2023	
		Functional December size. Full Functional December size	
		Functional Dependencies:-Full Functional Dependencies	
7	March	Transitive Functional Dependencies	
'	(13-18)	Characteristics of Functional Dependencies	
		SUNDAY - 19.03.2023	
3UNDAT - 13.U3.ZUZ3			

		Davised
		Revised
	March	Decomposition and Normal Forms
8	(20-25)	1NF, 2NF
	1	SUNDAY - 26.03.2023
	HOLIDA	AY 23.03.2023 Shaheedi Diwas
	Manak	3NF & BCNF
	March	
9	(27-31)	SQL: Data Definition and data types, SQL Operators
	April	Assignment-1
	(1)	
		HOUDAY 20.02.2022 (Ross Novemi)
		HOLIDAY - 30.03.2023 (Ram Navmi)
		SUNDAY - 02.04.2023
		Specifying Constraints in SQL
	April	Basic DDL, DML
9	(3-8)	
		HOUDAY Of Of 2022 (Moharita Jarranti)
		HOLIDAY - 04.04.2023 (Mahavir Jayanti)
ı		SUNDAY - 09.04.2023
		DCL commands in SQL
10	April	Revised
10	(10-15)	
		SUNDAY - 16.04.2023
	HOL	IDAY - 14.04.2023 (DR.B.R.Ambedkar Jayanti)
T	1101	Simple Queries, Nested Queries
		Tables, Views
11	April	Indexes, Aggregate Functions
	(17-21)	mexes) riggregate i anottonis
		SUNDAY - 23.04.2023
	Holi	day Id-Ul-Fitr/Parshuram Jayanti (Saturaday)
		Clauses,PL/SQL architecture
		PL/SQL and SQL*Plus
42	April	PL/SQL Basics, Advantages of PL/SQL
12	(24-29)	
		SUNDAY - 30.04.2023
		The Generic PL/SQL Block: PL/SQL Execution Environment
	May	PL/SQL Character set and Data Types
13	(1-6)	Assignment -2
	(1-0)	
		SUNDAY - 07.05.2023
		Control Structure in PL/SQL
		Cursors in PL/SQL, Triggers in PL/SQL
14	May	Programming using PL/SQL
	(8-13)	
		CUNDAY 44.05.2022
		SUNDAY - 14.05.2023
14	May	Queries on Problem
	(15-16)	Queries on Problem
		Examination 17.05.2023 Onwards.

LESSON PLAN

SESSION 2022-23 (01.02.2023 to 16.05.2023)

Weekly Lesson Plan Even Semester)

UG (II / IV / VI - Semester) : IV Semester

Name of the Paper:- COMPUTER-ORIENTED STATISTICAL METHODS Class: BCA-II

Name of the Teachers (Section Wise): Ashwani Gupta

WEEK	DATE	TOPICS
	February	Statistics: Preparing Frequency Distribution Table and
1	(1-4)	Cumulative frequency,
	SUN	NDAY - 05.02.2023 Holiday (Guru Ravidass Jayanti)
		Measure of Central Tendency, Types:
		Arithmetic mean, Geometric Mean, Harmonic Mean,
2	February	
-	(6-11)	Median, Mode.
	1	SUNDAY - 12.02.2023
		Measure of Central Tendency, Types:
_	February	Arithmetic mean, Geometric Mean, Harmonic Mean,
3	(13-17)	
	, ,	Median, Mode.
		HOUDAY 40 02 2022 (A4 h Cl.' ')
		HOLIDAY - 18.02.2023 (Maha Shivratri)
	1	SUNDAY - 19.02.2023
		Measure of Dispersion: Range, Quartile Deviation, Coefficient of mean Deviation, Standard Deviation
	February	mean deviation,
4	(20-25)	Measure of Dispersion: Range, Quartile Deviation,
	(20 25)	Coefficient of mean Deviation, Standard Deviation
		mean deviation,
		SUNDAY - 26.02.2023
		Moments : Moments About mean, Moments about any point, Moment
	February	about origin, Moment about mean in terms of moment about any point,
5	(27-28)	Moment about any point in terms of Moment about mean
3	March	
	(1-4)	
		SUNDAY - 05.03.2023
	1	Holi Vacations - 05.03.2023 to 12.03.2023
		Correlation: Introduction, Types, Properties, Methods of Correlation:
7	March	Karl Pearson's Coefficient of Correlation, Rank Correlation and
	(13-18)	Concurrent Deviation method, Probable error.
		CUNDAY 40.03.2022
		SUNDAY - 19.03.2023

	I				
8	March	Correlation: Introduction, Types, Properties, Methods of Correlation:			
	(20-25)	Karl Pearson's Coefficient of Correlation, Rank Correlation and			
	, ,	Concurrent Deviation method, Probable error.			
		SUNDAY - 26.03.2023			
	HOLI	DAY 23.03.2023 Shaheedi Diwas			
	March	Curve Fitting: Straight Line, Parabolic curve, Geometric Curve and			
9	(27-31)	Exponential Curve			
	April (1)	Baye's Theorem in Decision Making, Forecasting Techniques			
	(1)				
		HOLIDAY - 30.03.2023 (Ram Navmi)			
	T	SUNDAY - 02.04.2023			
		Constitution Brokeling on Constitution			
9	April	Curve Fitting: Straight Line, Parabolic curve, Geometric Curve and Exponential Curve			
	(3-8)	Baye's Theorem in Decision Making, Forecasting Techniques			
		Buye 3 Theorem in Beelston Muking, Forecasting Teeningues			
	<u> </u>	HOLIDAY - 04.04.2023 (Mahavir Jayanti)			
		SUNDAY - 09.04.2023			
	April	Types: Binomial, Poisson, Normal Distribution, Mean and Variance of			
10	(10-15)	Binomial, Poisson, and Normal Distribution			
	(10-15)				
		SUNDAY - 16.04.2023			
	Н	OLIDAY - 14.04.2023 (DR.B.R.Ambedkar Jayanti)			
		Turner Dinemial Deissen Nermal Distribution Many and Veriance of			
11	April (17-21)	Types: Binomial, Poisson, Normal Distribution, Mean and Variance of Binomial, Poisson, and Normal Distribution			
		Silionial) i cisson, and normal bischbacker			
		SUNDAY - 23.04.2023			
	H	Holiday Id-Ul-Fitr/Parshuram Jayanti (Saturaday)			
		Sample introduction, Sampling: Meaning, methods of Sampling,			
12	April	Statistical Inference: Test of Hypothesis, Types of hypothesis,			
	(24-29)	Procedure of hypothesis Testing, Type I and Type II error, One Tailed and two tailed Test,			
		and two taned rest,			
		SUNDAY - 30.04.2023			
		Types of test of Significance: Test of significance			
13	May	for Attribute-Test of No. of success and test of proportion of success,			
	(1-6)	Test of significance for large samples - Test of significance for single			
		mean and Difference of mean			
		CHNDAY 07 05 2022			
		SUNDAY - 07.05.2023			
		Test of significance for small samples			
	May	(t-test) – test the significance between the mean of a random sample,			
14	(8-13)	between the mean of two independent samples			
	(0 13)				
		SUNDAY - 14.05.2023			
14	May	Revision & Test			
	(15-16)	Revision & Test			
		Examination 17.05.2023 Onwards.			

LESSON PLAN

SESSION 2022-23 (01.02.2023 to 16.05.2023)

Weekly Lesson Plan Even Semester)

UG (IV - Semester)

Name of the Paper:- Management Information System Class: BCA

Name of the Teachers (Section Wise): Prof. Mohit

WEEK	DATE	TOPICS
VVLER	DAIL	Introduction to system and Basic System Concepts
	February	introduction to system and basic system concepts
1	(1-4)	
	(1-4)	
	SUNDAY	- 05.02.2023 Holiday (Guru Ravidass Jayanti)
		Types of Systems
		The Systems Approach
	February	Information System: Definition & Characteristics
2	(6-11)	,
		SUNDAY - 12.02.2023
		Types of information
	February	Role of Information in Decision- Making
3	(13-17)	Sub-Systems of an Information system
	(13-17)	
	H	OLIDAY - 18.02.2023 (Maha Shivratri)
		SUNDAY - 19.02.2023
		EDP and MIS management levels, EDP/MIS/DSS
		Revised
4	February	An overview of Management Information System
	(20-25)	
		SUNDAY - 26.02.2023
		Definition & Characteristics
	February	Components of MIS
_	(27-28)	Frame Work for Understanding MIS
5	March	<u> </u>
	(1-4)	
	, ,	
	•	SUNDAY - 05.03.2023
	Hol	i Vacations - 05.03.2023 to 12.03.2023
		Information requirements & Levels of Management
		Simon's Model of decision-Making
7	March	Revised
,	(13-18)	
		SUNDAY - 19.03.2023

		le	
		Structured Vs Un-structured decisions	
	March	Assignment-1	
8		Formal vs. Informal systems	
	(20-25)	·	
		SUNDAY - 26.03.2023	
	LIQUIDAY	23.03.2023 Shaheedi Diwas	
	HOLIDAY		
	March	Revised	
	(27-31)	Developing Information Systems	
9	April	Analysis & Design of Information Systems	
	(1)		
	Н	OLIDAY - 30.03.2023 (Ram Navmi)	
		SUNDAY - 02.04.2023	
		Revised	
	A	Implementation	
9	April		
	(3-8)		
	HOL	IDAY - 04.04.2023 (Mahavir Jayanti)	
	.102	SUNDAY - 09.04.2023	
		Evaluation	
		Pitfalls in MIS Development	
10	April		
10	(10-15)	Revised	
		CUNDAY 4C 04 2022	
		SUNDAY - 16.04.2023	
	HOLIDAY	/ - 14.04.2023 (DR.B.R.Ambedkar Jayanti)	
		Functional MIS	
	April	A Study of Personnel	
11	(17-21)	Financial and production MIS	
	, ,		
		CUNIDAY 22 04 2022	
		SUNDAY - 23.04.2023	
	Holiday	Id-UI-Fitr/Parshuram Jayanti (Saturaday)	
		Revised	
		Revised	
12	April	Introduction to e-business systems	
12	(24-29)		
		SUNDAY - 30.04.2023	
		ecommerce - technologies	
		applications	
4.0	May (1	Assignment-2	
13	6)	- Company of the Comp	
		SUNDAY - 07.05.2023	
		Decision support systems	
		support systems for planning	
	May	control and decision-making	
14	(8-13)	CONTROL AND DECISION-MAKING	
	(0-12)		
SUNDAY - 14.05.2023			
	Max	Revised	
14	May	Revised	
	(15-16)		
		xamination 17.05.2023 Onwards.	