SESSION 2020-2021

Weekly Lesson Plan (Even Semester) UG Name of the Paper:-Advanced Data Structures Name of the Teachers :- Ashwani Gupta ( 4th Semester) Class: BCA-II

WEEK	DATE	TOPICS
	April	
1	(19-20) ,	Sorting: Internal & external sorting,
	(22-24)	
	HOID	AY - 21.04.2021 (Ram Navami)
	SUNDAY &	Holiday (Mahavir Jayanti) 25.04.2021
	April	
-	(26 -30)	Radix sort, Quick sort, Heap sort,
2		Merge sort, Tournament sort,
	May (Ist)	
	1	SUNDAY - 02.05.2021
	May (03 - 08 )	Comparison of various sorting and
		searching algorithms on the basis of their complexity.
3		
		SUNDAY - 09.05.2021
4	May (10-13 ) (15)	Files: Introduction Attributes of a file,
		Classification of files, Fileoperations,
	HOLIDAY - 14.	05.2021 (Id-ul-Fitr / Parshuram Jayanti)
		SUNDAY - 16.05.2021
		Comparison of various types of files,
5	May (17-22)	Sequential, Indexed-sequential, Random-access file.

		SUNDAY - 23.05.2021
		Hashing: Introduction, Collision resolution
	Мау	
6	(24-29)	
	, , ,	
		SUNDAY - 30.05.2021
	May (31)	
	, , ,	Graph: Introduction, Graph theory terminology,
	June (1 - 5)	Sequential and linkedrepresentation of graphs,
7		operations on graphs
		SUNDAY - 06.06.2021
		traversal algorithms in
8	June (7-12)	graphs and their implementation,
		First & Second Assignment
		les (Maharana Droton lesanti) 12.00.2021
	SUNDAY & Holio	lay uyianarana Pratan Jayantu 13.06.2021
	SUNDAY & Holic	day (Maharana Pratap Jayanti) 13.06.2021
	SUNDAY & Holid	
	SUNDAY & Holic	Warshall's algorithm for shortest
9	SUNDAY & Holic	
9		Warshall's algorithm for shortest
9		Warshall's algorithm for shortest
9		Warshall's algorithm for shortest path, Dijkstra algorithm for shortest path.
9		Warshall's algorithm for shortest
9		Warshall's algorithm for shortest path, Dijkstra algorithm for shortest path. SUNDAY - 20.06.2021
9	June (14 -19) June (21-23)	Warshall's algorithm for shortest path, Dijkstra algorithm for shortest path. SUNDAY - 20.06.2021 Tree: Introduction, Definition,
	June (14 -19)	Warshall's algorithm for shortest path, Dijkstra algorithm for shortest path. SUNDAY - 20.06.2021 Tree: Introduction, Definition, Traversing binary trees,
	June (14 -19) June (21-23)	Warshall's algorithm for shortest path, Dijkstra algorithm for shortest path. SUNDAY - 20.06.2021 Tree: Introduction, Definition,
	June (14 -19) June (21-23) (25 - 26)	Warshall's algorithm for shortest path, Dijkstra algorithm for shortest path. SUNDAY - 20.06.2021 Tree: Introduction, Definition, Traversing binary trees, Representing Binary tree in memory,
	June (14 -19) June (21-23) (25 - 26)	Warshall's algorithm for shortest path, Dijkstra algorithm for shortest path. SUNDAY - 20.06.2021 Tree: Introduction, Definition, Traversing binary trees, Representing Binary tree in memory, Y - 24.06.2021 (Sant Kabir Jayanti)
	June (14 -19) June (21-23) (25 - 26)	Warshall's algorithm for shortest path, Dijkstra algorithm for shortest path. SUNDAY - 20.06.2021 Tree: Introduction, Definition, Traversing binary trees, Representing Binary tree in memory,
	June (14 -19) June (21-23) (25 - 26)	Warshall's algorithm for shortest path, Dijkstra algorithm for shortest path. SUNDAY - 20.06.2021 Tree: Introduction, Definition, Traversing binary trees, Representing Binary tree in memory, Y - 24.06.2021 (Sant Kabir Jayanti) SUNDAY - 27.06.2021
	June (14 -19) June (21-23) (25 - 26)	Warshall's algorithm for shortest path, Dijkstra algorithm for shortest path. SUNDAY - 20.06.2021 Tree: Introduction, Definition, Traversing binary trees, Representing Binary tree in memory, Y - 24.06.2021 (Sant Kabir Jayanti) SUNDAY - 27.06.2021 Traversal algorithms using stacks,
	June (14 -19) June (21-23) (25 - 26) HOLIDA June (28-30)	Warshall's algorithm for shortest path, Dijkstra algorithm for shortest path. SUNDAY - 20.06.2021 Tree: Introduction, Definition, Traversing binary trees, Representing Binary tree in memory, Y - 24.06.2021 (Sant Kabir Jayanti) SUNDAY - 27.06.2021 Traversal algorithms using stacks, Searching, Insertion and deletion in
10	June (14 -19) June (21-23) (25 - 26) HOLIDA	Warshall's algorithm for shortest path, Dijkstra algorithm for shortest path. SUNDAY - 20.06.2021 Tree: Introduction, Definition, Traversing binary trees, Representing Binary tree in memory, Y - 24.06.2021 (Sant Kabir Jayanti) SUNDAY - 27.06.2021 Traversal algorithms using stacks,
10	June (14 -19) June (21-23) (25 - 26) HOLIDA June (28-30)	Warshall's algorithm for shortest path, Dijkstra algorithm for shortest path. SUNDAY - 20.06.2021 Tree: Introduction, Definition, Traversing binary trees, Representing Binary tree in memory, Y - 24.06.2021 (Sant Kabir Jayanti) SUNDAY - 27.06.2021 Traversal algorithms using stacks, Searching, Insertion and deletion in

SUNDAY - 04.07.2021			
12	July (5 - 10)	Huffman's algorithm, General trees. Revision & Test	
	SUNDAY - 11 .07.2021		
13	July (12)		

SESSION 2020-2021

Weekly Lesson Plan (Even Semester) UG Name of the Paper:- Advance Programming using C++

(4th Semester)

using C++ Class: BCA II Year

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

WEEK	DATE	TOPICS
		INTRODUCTION OF DYNAMIC POLYMORPHISM
	April (19-	Function Overriding, Virtual Function and its Need
1	20) ,	
	(22-24)	
	HOI	DAY - 21.04.2021 (Ram Navami)
	SUNDAY 8	Holiday (Mahavir Jayanti) 25.04.2021
		Pure Virtual Function, Abstract Class, Virtual Derivation
	April	Virtual Destructor
2	(26 -30)	
	May (let)	
	May (Ist)	
		SUNDAY - 02.05.2021
		Type Conversion: Basic Type Conversion,
		Conversion between objects and basic types,
3	May	
	(03 - 08 )	
	ſ	SUNDAY - 09.05.2021
	May (10-13 ) (15)	Conversion between objects of different classes, Inheritance
		Rules of Derivations – Private, Protected and Public Derivations
4		
	HOUDAY 1	1.05.2021 (Id-ul-Fitr / Parshuram Jayanti)
	HOLIDAT - 14	SUNDAY - 16.05.2021
		Single, Multiple, Multilevel, Hierarchical
		and Multipath Inheritance
5	May (17-22)	
5		

SUNDAY - 23.05.2021			
		Assignment I	
		Roles of Constructors and Destructors in	
c.	May	Inheritance, Genericity in C++	
6	(24-29)	· · · · ·	
		SUNDAY - 30.05.2021	
	May (31)	Templates in C++, Function templates	
	June (1 - 5)		
7	June (1 - 5)		
		SUNDAY - 06.06.2021	
		Conditional Test	
		Class templates in C++	
8	June (7-12)		
	SUNDAY & Ho	liday (Maharana Pratap Jayanti) 13.06.2021	
		Assignment II	
		Exception Handling in C++: try, throw and	
9	luno (14, 10)	catch	
9	June (14 -19)		
	SUNDAY - 20.06.2021		
		Query Session	
	June (21-23)	Query Session Files I/O in C++: Class Hierarchy for Files I/O	
10	June (21-23) (25 - 26)		
10			
10	(25 - 26)	Files I/O in C++: Class Hierarchy for Files I/O	
10	(25 - 26)	Files I/O in C++: Class Hierarchy for Files I/O AY - 24.06.2021 (Sant Kabir Jayanti)	
10	(25 - 26)	Files I/O in C++: Class Hierarchy for Files I/O AY - 24.06.2021 (Sant Kabir Jayanti) SUNDAY - 27.06.2021	
10	(25 - 26) HOLID	Files I/O in C++: Class Hierarchy for Files I/O AY - 24.06.2021 (Sant Kabir Jayanti) SUNDAY - 27.06.2021 Text versus Binary Files,	
	(25 - 26)	Files I/O in C++: Class Hierarchy for Files I/O AY - 24.06.2021 (Sant Kabir Jayanti) SUNDAY - 27.06.2021	
10	(25 - 26) HOLID June (28-30)	Files I/O in C++: Class Hierarchy for Files I/O AY - 24.06.2021 (Sant Kabir Jayanti) SUNDAY - 27.06.2021 Text versus Binary Files,	
	(25 - 26) HOLID	Files I/O in C++: Class Hierarchy for Files I/O AY - 24.06.2021 (Sant Kabir Jayanti) SUNDAY - 27.06.2021 Text versus Binary Files,	
	(25 - 26) HOLID June (28-30)	Files I/O in C++: Class Hierarchy for Files I/O AY - 24.06.2021 (Sant Kabir Jayanti) SUNDAY - 27.06.2021 Text versus Binary Files,	

SUNDAY - 04.07.2021			
		File Pointers, Operation on files	
		Revision	
12	July (5 - 10)		
12			
	SUNDAY - 11 .07.2021		
13	July (12)	Revision	

SESSION 2020-2021

UG

Weekly Lesson Plan (Even Semester) Name of the Paper:-\_\_\_\_E-Commerce\_

Class: BCA II\_

(4th Semester)

Name of the Teachers (Section wise): \_\_GEETIKA NARANG\_\_\_\_\_\_

WEEK	DATE	TOPICS
		Introduction to E-Commerce:-Business operations
	April (19-	E-commerce practices vs. traditional business practices
1	20),	concepts of b2b, b2c
	(22-24)	c2c,b2g,g2h,g2c
		Features of E-Commerce
	HOIDAY	7 - 21.04.2021 (Ram Navami)
	SUNDAY & Ho	liday (Mahavir Jayanti) 25.04.2021
		Types of Ecommerce Systems, Elements of E-Commerce
	April	principles of E-Commerce
	(26 -30)	Benefits and Limitations of E-Commerce
2		Management Issues relating to e-commerce
		Operations of E-commerce: Credit card transaction
	May (Ist)	Secure Hypertext Transfer Protocol (SHTP) ; Electronic payment systems
	9	SUNDAY - 02.05.2021
		Secure electronic transaction (SET) ; SET's encryption
		Process; Cybercash
3	May	Smart cards; Indian payment models
	(03 - 08 )	Class Discussion
		Applications in governance: EDI in governance
		E-government; E-Governance applications of Internet
	5	SUNDAY - 09.05.2021
	May	concept of government –to- business, business-to-government citizen-to-government And Assignment 1
4	(10-13 ) (15)	E-governance models
		Continue
		Private sector interface in Egovernance
	HOLIDAY - 14.05	.2021 (Id-ul-Fitr / Parshuram Jayanti)
		SUNDAY - 16.05.2021
		Applications in B2C: Consumers shopping procedure on the Internet
	May	Impact on disinter mediation and re-intermediation
5	(17-22)	Global market
		Strategy of traditional department stores Conditional test
		Products in b2c model

		SUNDAY - 23.05.2021	
		success factors of e-brokers; Broker-based services on-line	
		Online travel tourism services	
	May	Benefits and impact of e-commerce on travel industry	
6	(24-29)	Deal estate market; online stock trading and its benefits	
		online stock trading benefits	
		Online banking	
		SUNDAY - 30.05.2021	
	May (31)	Online banking benefits	
		Online financial services and their future	
_	June (1 - 5)	Assignment2 and Class Discussion	
7		E-auctions – benefits	
		implementation	
		impact	
		SUNDAY - 06.06.2021	
		Applications in B2B	
		Key technologies for b2b	
0	lune (7.12)	architectural models of b2b	
8	June (7-12)	Continue	
		characteristics of the supplier	
		oriented marketplace	
SUNDAY & Holiday (Maharana Pratap Jayanti) 13.06.2021			
		buyer-oriented marketplace	
	June (14 -19)	intermediary-oriented marketplace	
9		Just In Time delivery in b2b	
3	June (14 -13)	Internet-based EDI from traditional EDI	
		Marketing Issues in b2b	
		Emerging Business models: Retail model	
		SUNDAY - 20.06.2021	
		Media model	
	June (21-23)	advisory model	
10	(25 - 26)	made-to-order manufacturing model	
	( <b>/</b>	Do-it- yourself model	
		Information service model	
	HOLIDAY	- 24.06.2021 (Sant Kabir Jayanti)	
	HOLIDAY	- 24.06.2021 (Sant Kabir Jayanti) SUNDAY - 27.06.2021	
	HOLIDAY	SUNDAY - 27.06.2021 Emerging hybrid models	
		SUNDAY - 27.06.2021	
11	HOLIDAY June (28-30)	SUNDAY - 27.06.2021 Emerging hybrid models	
11		SUNDAY - 27.06.2021 Emerging hybrid models Class Discussion	
11	June (28-30)	SUNDAY - 27.06.2021 Emerging hybrid models Class Discussion Emerging models in India	

SUNDAY - 04.07.2021		
	July (5 - 10)	Class Discussion
		Internet security Issues
12		Legal aspects of E-commerce
		Revision
		Revision
		Revision
SUNDAY - 11 .07.2021		
13	July (12)	Revision

SESSION 2020-2021

Weekly Lesson Plan (Even Semester) UG (4th Semester)

Name of the Paper:- Relational Database Management System Class: BCA II Year

Name of the Teachers (Section wise): DEEPTY JUNEJA

WEEK	DATE	TOPICS	
		Relational Model Concepts	
	April (19-	Codd's Rule for Relational Model	
1	20),		
	(22-24)		
		HOIDAY - 21.04.2021 (Ram Navami)	
	SUND	DAY & Holiday (Mahavir Jayanti) 25.04.2021	
		Relational Algebra (Selection, Projection)	
	April (26 -30)	Relational Algebra (Set Operators)	
2	(20-30)	Renaming, Join & Division	
	Mov (let)		
	May (Ist)		
		SUNDAY - 02.05.2021	
	May 3 (03 - 08 )	Introduction Ralational Calculas	
		Tuple Relational Calculas	
3		Domain Relational Calculas	
5			
SUNDAY - 09.05.2021			
		Functional Dependencies & Introduction of Normal Forms	
4	May (10-13 ) (15)	Purpose of Normalization, Data Redundancy	
		Update Anomalies, Functional Dpendancy	
	HOLIDA	AY - 14.05.2021 (Id-ul-Fitr / Parshuram Jayanti)	
SUNDAY - 16.05.2021			

		Partial/ Fully Functional Dependency
		Transitive functional Dependency, Characteristics of Functional Dependency
5	May	Normal Forms(1NF)
	(17-22)	
	1	SUNDAY - 23.05.2021
		2NF
		3NF
6	May (24-29)	BCNF
	(24-25)	
	1	SUNDAY - 30.05.2021
	May (31)	Assignment I
	June (1 - 5)	Query Session
7	Julie (1 - 3)	Conditional Test
,		
	1	SUNDAY - 06.06.2021
		Introduction, definition& data types of SQL
		SQL Operators, Constraint in SQL
8	June (7-12)	DDI Commands
	SUNDAY	& Holiday (Maharana Pratap Jayanti) 13.06.2021
		DML Commands
		DCL Commands
9	June (14 -19)	Conditional Test
-		

		SUNDAY - 20.06.2021
10	June (21-23) (25 - 26)	Simple & Nested Queries Views Indexes
		HOLIDAY - 24.06.2021 (Sant Kabir Jayanti)
		SUNDAY - 27.06.2021
11	June (28-30) July (1-3)	Aggregate functions,Clauses Basics of PL/SQI ,PL/SQL Architecture,PL/SQL SQL*Plus Advantage of PL/SQL,PL/SQL Block,Execution Statement
		SUNDAY - 04.07.2021
12	July (5 - 10)	PL/SQL Character set ,Data types, Declaration of variable, assignment of variable Control Structure in PL/SQL Cursors
		SUNDAY - 11 .07.2021
13	July (12)	Triggers

#### I.B. (PG) COLLEGE, PANIPAT SESSION 2020-2021

Weekly Lesson Plan (Even Semester)UG( 4th Semester)Name of the Paper:-COMPUTER-ORIENTED STATISTICAL METHODSClass: BCA\_IIName of the Teachers : Ashwani Gupta

WEEK	DATE	TOPICS	
	April	Statistics: Preparing Frequency Distribution Table and	
1	(19-20) ,	Cumulative frequency,	
	(22-24)		
	H	OIDAY - 21.04.2021 (Ram Navami)	
SUNDAY & Holiday (Mahavir Jayanti) 25.04.2021			
	April	Measure of Central Tendency, Types:	
2	(26 -30)	Arithmetic mean, Geometric Mean, Harmonic Mean,	
2			
		Median, Mode.	
	May (Ist)		
		SUNDAY - 02.05.2021	
	May	Measure of Dispersion: Range, Quartile Deviation,	
3	May (03 - 08 )	Coefficient of mean Deviation, Standard Deviation	
		mean deviation,	
		SUNDAY - 09.05.2021	
		501541 - 05.05.2021	
	May (10-13 ) (15)	Nomente i Memente About mean Memente about anu neint	
4		Moments : Moments About mean, Moments about any point, Moment	
		about origin, Moment about mean in terms of moment about any	
		point,	
		Moment about any point in terms of Moment about mean	
	HOLIDAY -	14.05.2021 (Id-ul-Fitr / Parshuram Jayanti)	
		SUNDAY - 16.05.2021	
	May (17-22)		
		Correlation: Introduction, Types, Properties, Methods of	
5		Correlation:	
		Karl Pearson's Coefficient of Correlation, Rank Correlation and	
		Concurrent Deviation method, Probable error.	

SUNDAY - 23.05.2021				
		Regression: Introduction, Aim of Regression Analysis, Types of		
	<b>B4</b>			
6	May (24-29)	Regression Analysis, Lines of Regression, Properties of Regression		
		Coefficient and Regression Lines, Comparison with Correlation.		
SUNDAY - 30.05.2021 May (31)				
	(01)			
	June (1 - 5)	Curve Fitting: Straight Line, Parabolic curve, Geometric Curve and		
7		Exponential Curve		
		Baye's Theorem in Decision Making, Forecasting Techniques		
		First & Second Assignment		
		SUNDAY - 06.06.2021		
		Types: Binomial, Poisson, Normal Distribution, Mean and Variance		
8	June (7-12)	of		
		Binomial, Poisson, and Normal Distribution		
		aliday (Maharana Dratan Jayanti) 12.00 2021		
	SUNDAT & H	oliday (Maharana Pratap Jayanti) 13.06.2021		
		Sample introduction, Sampling: Meaning, methods of Sampling,		
9	June (14 -19)			
		Statistical Inference: Test of Hypothesis, Types of hypothesis, Procedure of hypothesis Testing, Type I and Type II error, One		
		Tailed		
		and two tailed Test,		
		SUNDAY - 20.06.2021		
		Types of test of Significance: Test of significance		
		for Attribute-Test of No. of success and test of proportion of		
10	June (21-23)	success, Test of significance for large samples - Test of significance for		
	(25 - 26)	single		
		mean and Difference of mean		
	HOLI	DAY - 24.06.2021 (Sant Kabir Jayanti)		
		SUNDAY - 27.06.2021		
	June (28-30)	Test of significance for small samples		
11	July (1-3)	(t-test) – test the significance between the mean of a random		
		sample,		
		between the mean of two independent samples		
	1			

SUNDAY - 04.07.2021		
12	July (5 - 10)	Revision & Test
SUNDAY - 11 .07.2021		
13	July (12)	

SESSION 2020-2021

Weekly Lesson Plan (Even Semester) UG

Name of the Paper:- Management Information System (MIS)

(4th Semester)

IIS) Class: BCA II

Name of the Teachers (Section wise): Mr. Ajmer Singh

WEEK	DATE	TOPICS	
	April (19-		
1	20),	Introduction to system and Basic System Concepts	
	(22-24)	Types of Systems	
		Information System: Definition	
	HOIDAY - 21.04.2021 (Ram Navami)		
	SUNDAY & Holiday (Mahavir Jayanti) 25.04.2021		
	April (26 -30)		
2		Characteristics, Types of information,	
		Role of Information in Decision- Making	
	May (Ist)	Continue	
		SUNDAY - 02.05.2021	
3	May (03 - 08 )	Sub-Systems of an Information system: EDP and MIS management levels EDP/MIS/DSS Continue	
		SUNDAY - 09.05.2021	
4	May (10-13 ) (15)	Frame Work for Understanding MIS Simon's Model of decision making Continue	
	HOLIDAY - 14	4.05.2021 (Id-ul-Fitr / Parshuram Jayanti)	
		SUNDAY - 16.05.2021	
5	May (17-22)	Structured Vs Un-structured decisions, Formal vs. Informal system Continue	

SUNDAY - 23.05.2021			
	May		
6	(24-29)		
	(24-29)	Developing Information Systems	
		Analysis & Design of Information Systems	
		Implementation & Evaluation	
SUNDAY - 30.05.2021			
	May (31)		
	June (1 - 5)		
7	Julie (1 - 5)		
		Pitfalls in MIS Development.	
		Functional MIS:	
		Continue	
		SUNDAY - 06.06.2021	
8	June (7-12)	later dustice to a business suctores	
		Introduction to e-business systems	
		ecommerce – technologies and applications	
		Decision support systems	
	SUNDAY & Ho	liday (Maharana Pratap Jayanti) 13.06.2021	
9	lune (14 -19)		
9	June (14 -19)	Support systems for planning,	
9	June (14 -19)	Support systems for planning, Support system for control and decision-making	
9	June (14 -19)		
9	June (14 -19)	Support system for control and decision-making	
9	June (14 -19)	Support system for control and decision-making Continue	
9		Support system for control and decision-making Continue	
	June (21-23)	Support system for control and decision-making Continue	
9		Support system for control and decision-making Continue	
	June (21-23)	Support system for control and decision-making Continue	
	June (21-23) (25 - 26)	Support system for control and decision-making Continue SUNDAY - 20.06.2021	
	June (21-23) (25 - 26)	Support system for control and decision-making Continue SUNDAY - 20.06.2021	
	June (21-23) (25 - 26)	Support system for control and decision-making Continue SUNDAY - 20.06.2021	
	June (21-23) (25 - 26)	Support system for control and decision-making Continue SUNDAY - 20.06.2021	
	June (21-23) (25 - 26) HOLID	Support system for control and decision-making Continue SUNDAY - 20.06.2021	
10	June (21-23) (25 - 26)	Support system for control and decision-making Continue SUNDAY - 20.06.2021	
	June (21-23) (25 - 26) HOLID June (28-30)	Support system for control and decision-making Continue SUNDAY - 20.06.2021	
10	June (21-23) (25 - 26) HOLID	Support system for control and decision-making Continue SUNDAY - 20.06.2021	
10	June (21-23) (25 - 26) HOLID June (28-30)	Support system for control and decision-making Continue SUNDAY - 20.06.2021	

SUNDAY - 04.07.2021		
12	July (5 - 10)	
		SUNDAY - 11 .07.2021
13	July (12)	