

BCA-Ist Year

K.L MEHTA DAYANAND COLLEGE FOR WOMEN, FARIDABAD

LESSON PLAN FOR THE SESSION 2022-23

Name of the professor: Ms. Rupinder kaur Class And Section : BCA 1st Subject: BCA-101 : COMPUTER & PROGRAMMING FUNDAMENTALS	
Day 1	Computer Fundamentals: Generations of Computers
Day 2	Generations of Computers
Day 3	Generations of Computers
Day 4	Definition,
Day 5	Block Diagram along with its components
Day 6	characteristics of computers
Day 7	classification of computers
Day 8	Limitations of Computers
Day 9	Human-Being VS Computer
Day 10	Applications of computers in various fields.
Day 11	Memory: Concept of primary & secondary memory
Day 12	RAM, ROM, types of ROM
Day 13	Cache Memory, flash memory
Day 14	Secondary storage devices:
Day 15	Sequential & direct access devices viz
Day 16	magnetic tape,
Day 17	magnetic disk,
Day 18	optical disks i.e. CD, DVD, virtual memory
Day 19	Assignment 1
Day 20	Test Unit 1
Day 21	Computer hardware & software: I/O devices
Day 22	Computer hardware & software: I/O devices
Day 23	definition of software
Day 24	relationship between hardware and software,
Day 25	types of software
Day 26	Overview of operating system: Definition
Day 27	functions of operating system
Day 28	concept of multiprogramming
Day 29	multitasking
Day 30	multithreading
Day 31	multiprocessing
Day 32	time-sharing
Day 33	real time
Day 34	single-user & multi-user operating system
Day 35	Computer Virus: Definition
Day 36	types of viruses
Day 37	Characteristics of viruses, anti-virus software
Day 38	Assignment unit 2
Day 39	Revision unit 2
Day 40	Test unit 2

Day 41	Revision unit 1
Day 42	Computer Languages: Analogy with natural language
Day 43	machine language
Day 44	assembly language
Day 45	high-level languages, forth generation languages
Day 46	compiler
Day 47	interpreter
Day 48	assembler
Day 49	Linker
Day 50	Loader
Day 51	characteristics of a good programming language
Day 52	Planning the Computer Program
Day 53	Concept of problem solving
Day 54	Problem definition
Day 55	Program design
Day 56	Debugging
Day 57	Types of errors in programming, Documentation
Day 58	Structured programming concepts
Day 59	Programming methodologies viz. top-down and bottom up programming
Day 60	Programming methodologies viz. top-down and bottom up programming
Day 61	Advantages and disadvantages of Structured programming
Day 62	Revision unit 3
Day 63	Revision unit 3
Day 64	Test unit 3
Day 65	Test unit 2
Day 66	Test unit 1
Day 67	Overview of Networking: An introduction to computer networking
Day 68	Network types (LAN, WAN, MAN)
Day 69	Network topologies
Day 70	Modes of data transmission
Day 71	Modes of data transmission
Day 72	Modes of data transmission
Day 73	Forms of data transmission
Day 74	Transmission channels(media
Day 75	Transmission channels(media
Day 76	Transmission channels(media)
Day 77	Introduction to internet
Day 78	Introduction to internet
Day 79	internet and its uses
Day 80	internet and its uses
Day 81	Applications of internet
Day 82	Applications of internet
Day 83	Hardware and Software requirements for internet
Day 84	Hardware and Software requirements for internet
Day 85	Hardware and Software requirements for internet
Day 86	Intranet
Day 87	Applications of intranet
Day 88	Revision unit 4
Day 89	Revision full syllabus
Day 90	Test unit

Name of the professor: Ms. Poonam and Ms.Ekta
Class And Section: BCA 1st year, Sec – B and A
Subject: BCA-102: PC SOFTWARE

Day 1	Introduction of MS-Windows
Day 2	Windows and it's type
Day 3	Operating system-Definition & functions
Day 4	Operating system-Definition & functions
Day 5	Basics of Windows
Day 6	Basic components of windows
Day 7	icons, types of icons
Day 8	taskbar, activating windows, title bar
Day 9	using desktop
Day 10	running applications
Day 11	exploring computer
Day 12	Doubt Session
Day 13	managing files and folders
Day 14	copying and moving files and folders
Day 15	Control panel
Day 16	Control panel
Day 17	display properties
Day 18	adding and removing software and hardware
Day 19	adding and removing software and hardware
Day 20	Doubt
Day 21	screensaver
Day 22	appearance
Day 23	Using windows accessories.
Day 24	Using windows accessories.
Day 25	Test
Day 26	Introduction of Documentation Using MS-Word
Day 27	Introduction to word processing interface
Day 28	Toolbars
Day 29	Menus
Day 30	Creating & Editing Document
Day 31	Formatting Document
Day 32	Finding and replacing text
Day 33	Format painter
Day 34	Header and footer
Day 35	Header and footer
Day 36	Drop cap
Day 37	Auto-text
Day 38	Autocorrect
Day 39	Spelling and Grammar Tool
Day 40	Document Dictionary
Day 41	Doubt
Day 42	Page Formatting
Day 43	Bookmark
Day 44	Previewing and printing document

Day 45	Previewing and printing document
Day 46	Advance Features of MS-Word-Mail Merge
Day 47	Advance Features of MS-Word-Mail Merge, Macro
Day 48	Tables
Day 49	File Management
Day 50	Printing
Day 51	Styles
Day 52	linking and embedding object
Day 53	Template and Doubt session
Day 54	Test
Day 55	Introduction Electronic Spread Sheet using MS-Excel
Day 56	MS-Excel, Cell, cell address
Day 57	Creating & Editing Worksheet
Day 58	Header and footer
Day 59	Formatting and Essential Operations
Day 60	Moving and copying data in excel
Day 61	Formulas and Functions
Day 62	Formulas and Functions
Day 63	Doubt
Day 64	Conditional formatting.
Day 65	What if analysis with Goal Seek
Day 66	Cell referencing
Day 67	Page setup
Day 68	Macros
Day 69	Advance features of MS-Excel-Pivot table
Day 70	Pivot Chart
Day 71	Linking and Consolidation
Day 72	Database Management using Excel-Sorting
Day 73	Filtering, Validation
Day 74	Doubt
Day 75	Test
Day 76	Presentation using MS-PowerPoint
Day 77	Presentations, Creating
Day 78	Manipulating & Enhancing Slides
Day 79	Organizational Charts
Day 80	Excel Charts, Word Art
Day 81	Layering art Objects
Day 82	Animations and Sounds
Day 83	Inserting Animated Pictures or Accessing through Object
Day 84	Animations and Sounds
Day 85	Inserting Recorded Sound Effect or In-Built Sound Effect
Day 86	Doubt
Day 87	Test
Day 88	Discussion of Previous Year Question Paper
Day 89	Discussion of Previous Year Question Paper
Day 90	Discussion of Previous Year Question Paper

Name of the professor: Ms. SHIVANI GUPTA
Class and Section: BCA-1st Year Section-A
Subject: MATHEMEATICS

Day 1	Introduction
Day 2	Sets
Day 3	Subsets
Day 4	Equal Sets Universal Sets, Finite and Infinite Sets
Day 5	Operation on Sets
Day 6	Union, Intersection and Complements of Sets
Day 7	Union, Intersection and Complements of Sets
Day 8	Cartesian Product
Day 9	Cardinality of Set
Day 10	Simple Applications.
Day 11	Simple Applications.
Day 12	DETERMINANTS: Definition
Day 13	Minors
Day 14	Cofactors
Day 15	Doubt Class
Day 16	Properties of Determinants
Day 17	Properties of Determinants-Excercise
Day 18	Properties of Determinants-Excercise
Day 19	Applications of determinants in finding area of triangle
Day 20	Solving a system of linear equations
Day 21	MATRICES: Definition,
Day 22	Types of Matrices
Day 23	Addition
Day 24	Subtraction
Day 25	Scalar Multiplication
Day 26	Multiplication of Matrices
Day 27	Adjoint
Day 28	Inverse
Day 29	Solving system of linear equation Cramer's rule
Day 30	Class Test-1
Day 31	RELATIONS AND FUNCTIONS
Day 32	Properties of Relations
Day 33	Equivalence Relation
Day 34	Partial Order Relation Function
Day 35	Domain and Range
Day 36	Onto
Day 37	Into
Day 38	One to One Functions
Day 39	Composite and Inverse Functions
Day 40	LIMITS & CONTINUITY
Day 41	Limit at a Point
Day 42	Properties of Limit
Day 43	Computation of Limits of Various Types of Functions
Day 44	Continuity of a function at a Point

Day 45	Continuity Over an Interval
Day 46	Sum, product and quotient of continuous functions
Day 47	Intermediate Value Theorem
Day 48	Type of Discontinuities
Day 49	DIFFERENTIATION
Day 50	Derivative of a function
Day 51	Derivatives of Sum
Day 52	Differences
Day 53	Product
Day 54	Quotient of functions
Day 55	Derivatives of polynomial
Day 56	trigonometric
Day 57	exponential
Day 58	logarithmic
Day 59	inverse trigonometric
Day 60	implicit functions
Day 61	Logarithmic Differentiation
Day 62	Chain Rule
Day 63	differentiation by substitution.
Day 64	Doubt Class
Day 65	Class Test
Day 66	INTEGRATION
Day 67	Indefinite Integrals
Day 68	Methods of Integration by Substitution
Day 69	By Parts, Partial Fractions
Day 70	Integration of Algebraic
Day 71	Transcendental Functions
Day 72	Reduction Formulae for simple
Day 73	Trigonometric Functions
Day 74	Definite Integral as Limit of Sum
Day 75	Definite Integral as Limit of Sum
Day 76	Fundamental Theorem of Integral Calculus
Day 77	Evaluation of definite integrals by substitution, using properties of definite integral
Day 78	using properties of definite integral
Day 79	Transcendental Functions
Day 80	INTEGRATION
Day 81	INTEGRATION
Day 82	Revision
Day 83	Class Test-1
Day 84	Previous Questions
Day 85	Previous Questions
Day 86	Previous Questions
Day 87	Revision
Day 88	Revision
Day 89	Full Syllabus Test
Day 90	Full Syllabus Test

Name of the professor: Ms. Kritika Vaid and Ms. Ekta Soni
Class And Section: BCA 1st year Sec-A and Sec- B
Subject: LOC-I

Day 1	Information Representation: Number Systems
Day 2	Information Representation: Number Systems
Day 3	Information Representation: Number Systems
Day 4	Information Representation: Number Systems
Day 5	Binary Arithmetic
Day 6	Binary Arithmetic
Day 7	Binary Arithmetic
Day 8	Binary Arithmetic
Day 9	Fixed-point and Floating point representation of numbers
Day 10	Fixed-point and Floating point representation of numbers
Day 11	Fixed-point and Floating point representation of numbers
Day 12	BCD Codes
Day 13	BCD Codes
Day 14	BCD Codes
Day 15	Error detecting and correcting codes
Day 16	Error detecting and correcting codes
Day 17	Class Test
Day 18	Character Representation – ASCII
Day 19	Character Representation – ASCII
Day 20	EBCDIC, Unicode
Day 21	Binary Logic
Day 22	Binary Logic
Day 23	Boolean Algebra
Day 24	Boolean Algebra
Day 25	Boolean Algebra
Day 26	Boolean Theorems
Day 27	Boolean Theorems
Day 28	Boolean Functions and Truth Tables
Day 29	Boolean Functions and Truth Tables
Day 30	Boolean Functions and Truth Tables
Day 31	Canonical and Standard forms of Boolean function
Day 32	Canonical and Standard forms of Boolean function
Day 33	Simplification of Boolean Functions
Day 34	Simplification of Boolean Functions
Day 35	Simplification of Boolean Functions
Day 36	Simplification of Boolean Functions
Day 37	Venn Diagram
Day 38	Venn Diagram
Day 39	Venn Diagram
Day 40	Karnaugh Maps
Day 41	Karnaugh Maps
Day 42	Karnaugh Maps
Day 43	Karnaugh Maps
Day 44	Class Test
Day 45	Digital Logic
Day 46	Introduction to digital signals

Day 47	Introduction to digital signals
Day 48	Basic Gates
Day 49	Basic Gates
Day 50	AND
Day 51	OR, NOT
Day 52	Universal Gates and their implementation – NAND
Day 53	NAND
Day 54	NOR
Day 55	NOR
Day 56	Other Gates – XOR,
Day 57	Other Gates – XOR
Day 58	XNOR
Day 59	XNOR
Day 60	AND-OR-INVERT
Day 61	AND-OR-INVERT
Day 62	OR-AND-INVERT implementations of digital circuits
Day 63	OR-AND-INVERT implementations of digital circuits
Day 64	Combinational Logic
Day 65	Combinational Logic
Day 66	Combinational Logic – Characteristics
Day 67	Design Procedures
Day 68	Design Procedures
Day 69	analysis procedures
Day 70	analysis procedures
Day 71	Multilevel NAND and NOR circuits.
Day 72	Class Test
Day 73	Multilevel NAND and NOR circuits.
Day 74	Combinational Circuits: Half-Adder
Day 75	Full-Adder
Day 76	Full-Adder
Day 77	Half-Subtractor
Day 78	Full-Subtractor
Day 79	Parallel binary adder/subtractor
Day 80	Parallel binary adder/subtractor
Day 81	Revision
Day 82	Encoders
Day 83	Decoders
Day 84	Multiplexers
Day 85	Demultiplexers
Day 86	Comparators
Day 87	Code Converters
Day 88	Code Converters
Day 89	BCD to Seven-Segment Decoder
Day 90	Revision

Name of the professor: Ms. Sandhya Chaudhary
Class And Section: BCA 2nd year section A
Subject: Introduction to Operating system

Day 1	Fundamentals of Operating system: Introduction to Operating System,
Day 2	Fundamentals of Operating system: Introduction to Operating System,
Day 3	Operating System need and operating System services,
Day 4	Operating System need and operating System services,
Day 5	Early systems, Structures - Simple Batch,
Day 6	Early systems, Structures - Simple Batch,
Day 7	Multi programmed,timeshared, Personal Computer,
Day 8	Multi programmed,timeshared, Personal Computer,
Day 9	Parallel, Distributed Systems, Real-Time Systems.
Day 10	Parallel, Distributed Systems, Real-Time Systems.
Day 11	Process Management: Process concept, Operation on processes
Day 12	Process Management: Process concept, Operation on processes
Day 13	Cooperating Processes,Threads,
Day 14	Cooperating Processes,Threads,
Day 15	Inter-process Communication
Day 16	Inter-process Communication
Day 17	Inter-process Communication
Day 18	CPU Scheduling: Basic concepts,
Day 19	CPU Scheduling: Basic concepts,
Day 20	Scheduling criteria,
Day 21	Scheduling algorithms : FCFS, SJF, Round Robin & Queue Algorithms.
Day 22	Scheduling algorithms : FCFS, SJF, Round Robin & Queue Algorithms.
Day 23	Scheduling algorithms : FCFS, SJF, Round Robin & Queue Algorithms.
Day 24	Deadlocks: Deadlock characterization, Methods for handling deadlocks,
Day 25	Deadlocks: Deadlock characterization, Methods for handling deadlocks,
Day 26	Deadlocks: Deadlock characterization, Methods for handling deadlocks,
Day 27	Banker's Algorithm
Day 28	Banker's Algorithm
Day 29	Memory Management: Logical versus Physical address space.
Day 30	Memory Management: Logical versus Physical address space.
Day 31	Memory Management: Logical versus Physical address space.
Day 32	Swapping, Contiguous allocation, Paging, Segmentation.
Day 33	Swapping, Contiguous allocation, Paging, Segmentation.
Day 34	Swapping, Contiguous allocation, Paging, Segmentation.
Day 35	Virtual Memory: Demand paging,
Day 36	Virtual Memory: Demand paging,
Day 37	Performance of demand paging, Page replacement
Day 38	Performance of demand paging, Page replacement
Day 39	Page replacement algorithms, Thrashing.
Day 40	Page replacement algorithms, Thrashing.
Day 41	Thrashing.
Day 42	Thrashing.
Day 43	File management: File system Structure,
Day 44	File management: File system Structure,

Day 45	Allocation methods: Contiguous allocation,
Day 46	Allocation methods: Contiguous allocation,
Day 47	Linked allocation, Indexed allocation
Day 48	Linked allocation, Indexed allocation
Day 49	Free space management: Bit vector,
Day 50	Free space management: Bit vector,
Day 51	Linked list, Grouping, Counting.
Day 52	Linked list, Grouping, Counting.
Day 53	Device Management: Disk structure,
Day 54	Device Management: Disk structure,
Day 55	Disk scheduling: FCFS, SSTF, SCAN, C-SCAN,LOOK, C-LOOK.
Day 56	Disk scheduling: FCFS, SSTF, SCAN, C-SCAN,LOOK, C-LOOK.
Day 57	Disk scheduling: FCFS, SSTF, SCAN, C-SCAN,LOOK, C-LOOK.
Day 58	Page replacement
Day 59	Page replacement
Day 60	Bit vector
Day 61	Bit vector
Day 62	Virtual Memory
Day 63	Virtual Memory
Day 64	Deadlock characterization
Day 65	Deadlock characterization
Day 66	SCAN, C-SCAN
Day 67	SCAN, C-SCAN
Day 68	SCAN, C-SCAN
Day 69	demand paging
Day 70	demand paging
Day 71	CPU Scheduling
Day 72	CPU Scheduling
Day 73	CPU Scheduling
Day 74	Physical address space
Day 75	Physical address space
Day 76	Physical address space
Day 77	Real-Time Systems
Day 78	Real-Time Systems
Day 79	Real-Time Systems
Day 80	Segmentation.
Day 81	Segmentation.
Day 82	Segmentation.
Day 83	Round Robin
Day 84	Round Robin
Day 85	Paging,
Day 86	Paging,
Day 87	Revision
Day 88	Revision
Day 89	Revision
Day 90	Revision

Name of the professor: Ms. Gurpreet Kaur/ Ms.Poonam	
Class and Section: BCA-2nd Year Section-A and Section- B	
Subject: Data Structure-I	
Day 1	Introduction
Day 2	Elementary data organization
Day 3	Data Structure definition
Day 4	Data type vs. data structure
Day 5	Categories of data structures
Day 6	Categories of data structures
Day 7	Data structure operations
Day 8	Data structure operations
Day 9	Applications of data structures
Day 10	Applications of data structures
Day 11	Algorithms complexity
Day 12	time-space tradeoff
Day 13	Big-O notation
Day 14	Big-O notation
Day 15	Strings: Introduction
Day 16	Storing strings
Day 17	Storing strings
Day 18	String operations
Day 19	Pattern matching algorithms
Day 20	Pattern matching algorithms
Day 21	Pattern matching algorithms
Day 22	Pattern matching algorithms
Day 23	Arrays: Introduction
Day 24	Linear arrays
Day 25	Linear arrays
Day 26	Representation of linear array in memory
Day 27	address calculations
Day 28	address calculations
Day 29	Traversal
Day 30	Insertions
Day 31	Insertions
Day 32	Deletion in an array
Day 33	Deletion in an array
Day 34	Multidimensional arrays
Day 35	Multidimensional arrays
Day 36	Parallel arrays
Day 37	Parallel arrays
Day 38	Sparse arrays
Day 39	Revision Test
Day 40	Linked List: Introduction
Day 41	Array vs. linked list
Day 42	Representation of linked lists in memory
Day 43	Representation of linked lists in memory
Day 44	Traversal
Day 45	Insertion

Day 46	Insertion
Day 47	Insertion
Day 48	Deletion
Day 49	Deletion
Day 50	Deletion
Day 51	Revision Test
Day 52	Searching in a linked list
Day 53	Searching in a linked list
Day 54	Header linked list
Day 55	Header linked list
Day 56	Circular linked list
Day 57	Circular linked list
Day 58	Two-way linked list,
Day 59	Threaded lists
Day 60	Garbage collection
Day 61	Applications of linked lists.
Day 62	Stack: Introduction, , Operations on stacks,
Day 63	Array and linked representation of stacks
Day 64	Applications of stacks
Day 65	Polish notation, Recursion
Day 66	Polish notation, Recursion
Day 67	Queues: Introduction
Day 68	Array and linked representation of queues
Day 69	Array and linked representation of queues
Day 70	Operations on queues
Day 71	Deque
Day 72	Priority Queues
Day 73	Applications of queues
Day 74	Tree: Introduction
Day 75	Representing Binary tree in memory
Day 76	Traversing binary trees
Day 77	Traversal algorithms using stacks
Day 78	Revision Test
Day 79	Graph: Introduction
Day 80	Definition Graph theory terminology
Day 81	Sequential and linked representation of graphs.
Day 82	Sequential and linked representation of graphs.
Day 83	Doubt Class
Day 84	Revision Test
Day 85	Discussion of Previous Year Question Paper
Day 86	Discussion of Previous Year Question Paper
Day 87	Discussion of Previous Year Question Paper
Day 88	Discussion of Previous Year Question Paper
Day 89	Full Syllabus Test
Day 90	Full Syllabus Test

Name of the professor:- Ms.Neetu, Ms. Kamiya Chugh
Class And Section:-BCA-2ND YR (A+B)
Subject: INTRODUCTION TO DATABASE SYSTEM (BCA – 203)

Day 1	Data, Information, Records and files
Day 2	Data, Information, Records and files
Day 3	Traditional file –based Systems-File Based Approach-Limitations of File Based Approach
Day 4	Traditional file –based Systems-File Based Approach-Limitations of File Based Approach
Day 5	Traditional file –based Systems-File Based Approach-Limitations of File Based Approach
Day 6	Database Approach-Characteristics of Database Approach, advantages and disadvantages of database system
Day 7	Database Approach-Characteristics of Database Approach, advantages and disadvantages of database system
Day 8	Database Approach-Characteristics of Database Approach, advantages and disadvantages of database system
Day 9	Components of database system, Database Management System (DBMS)
Day 10	Components of database system, Database Management System (DBMS)
Day 11	Components of DBMS Environment, DBMS Functions and Components
Day 12	Components of DBMS Environment, DBMS Functions and Components
Day 13	DBMS users, Advantages and Disadvantages of DBMS
Day 14	DBMS users, Advantages and Disadvantages of DBMS
Day 15	DBMS languages
Day 16	DBMS languages
Day 17	Roles in the Database Environment
Day 18	Roles in the Database Environment
Day 19	Data and Database Administrator
Day 20	Data and Database Administrator
Day 21	Database Designers, Applications Developers and Users
Day 22	Database Designers, Applications Developers and Users
Day 23	Database System Architecture
Day 24	Database System Architecture
Day 25	Three Levels of Architecture, External, Conceptual and Internal Levels, Schemas, Mappings and Instances
Day 26	Three Levels of Architecture, External, Conceptual and Internal Levels, Schemas, Mappings and Instances
Day 27	Three Levels of Architecture, External, Conceptual and Internal Levels, Schemas, Mappings and Instances
Day 28	Data Independence – Logical and Physical Data Independence .
Day 29	Data Independence – Logical and Physical Data Independence .
Day 30	Classification of Database Management System, Centralized and Client Server architecture to DBMS
Day 31	Classification of Database Management System, Centralized and Client Server architecture to DBMS
Day 32	Classification of Database Management System, Centralized and Client Server architecture to DBMS
Day 33	Classification of Database Management System, Centralized and Client Server architecture to DBMS

Day 34	Classification of Database Management System, Centralized and Client Server architecture to DBMS
Day 35	Data Models: Records- based Data Models
Day 36	Data Models: Records- based Data Models
Day 37	Data Models: Records- based Data Models
Day 38	Object-based Data Models
Day 39	Object-based Data Models
Day 40	Physical Data Models and Conceptual Modeling
Day 41	Physical Data Models and Conceptual Modeling
Day 42	Physical Data Models and Conceptual Modeling
Day 43	Entity-Relationship Model
Day 44	Entity-Relationship Model
Day 45	Entity Types, Entity Sets, Attributes Relationship Types
Day 46	Entity Types, Entity Sets, Attributes Relationship Types
Day 47	Relationship Instances and ER Diagrams, abstraction and integration.
Day 48	Relationship Instances and ER Diagrams, abstraction and integration.
Day 49	Basic Concepts of Hierarchical and Network Data Model, Relational Data Model
Day 50	Basic Concepts of Hierarchical and Network Data Model, Relational Data Model
Day 51	Basic Concepts of Hierarchical and Network Data Model, Relational Data Model
Day 52	Relational Model Terminology
Day 53	Relational Model Terminology
Day 54	Relational Data Structure, Database Relations, Properties of Relations, Keys, Domains, Integrity Constraints over Relations
Day 55	Relational Data Structure, Database Relations, Properties of Relations, Keys, Domains, Integrity Constraints over Relations
Day 56	Relational Data Structure, Database Relations, Properties of Relations, Keys, Domains, Integrity Constraints over Relations
Day 57	Relational Data Structure, Database Relations, Properties of Relations, Keys, Domains, Integrity Constraints over Relations
Day 58	Relational algebra, Relational calculus
Day 59	Relational algebra, Relational calculus
Day 60	Relational algebra, Relational calculus
Day 61	Relational database design
Day 62	Relational database design
Day 63	Functional dependencies
Day 64	Functional dependencies
Day 65	Modification anomalies
Day 66	Modification anomalies
Day 67	1st to 3rd NFs, BCNF, 4th and 5th NFs
Day 68	1st to 3rd NFs, BCNF, 4th and 5th NFs
Day 69	1st to 3rd NFs, BCNF, 4th and 5th NFs
Day 70	1st to 3rd NFs, BCNF, 4th and 5th NFs
Day 71	1st to 3rd NFs, BCNF, 4th and 5th NFs
Day 72	computing closures of set FDs
Day 73	computing closures of set FDs
Day 74	SQL
Day 75	Data types
Day 76	Basic Queries in SQL, Insert, Delete and Update Statements, Views
Day 77	Basic Queries in SQL, Insert, Delete and Update Statements, Views
Day 78	Basic Queries in SQL, Insert, Delete and Update Statements, Views

Day 79	Query processing
Day 80	Query processing
Day 81	General strategies of query processing
Day 82	General strategies of query processing
Day 83	query optimization
Day 84	query optimization
Day 85	query processor
Day 86	query processor
Day 87	concept of security
Day 88	concept of security
Day 89	Concurrency and recovery.
Day 90	Concurrency and recovery.

Name of the professor: Ms. Ekta Soni and Ms. Kritika Vaid
Class And Section: BCA 2nd year Sec-A and Sec-B
Subject: Communication Skills(English)

Day 1	Introduction to Basics of Communication
Day 2	Communication and its various definition
Day 3	Communication and its various definition
Day 4	features/characteristics of the communication
Day 5	features/characteristics of the communication
Day 6	process of communication
Day 7	process of communication
Day 8	communication model and theories
Day 9	communication model and theories
Day 10	communication model and theories
Day 11	communication model and theories
Day 12	barrier to effective communication
Day 13	barrier to effective communication
Day 14	barrier to effective communication
Day 15	Improving LSRW
Day 16	Improving LSRW
Day 17	introduction
Day 18	verbal and nonverbal communication
Day 19	verbal and nonverbal communication
Day 20	verbal and nonverbal communication
Day 21	listening process
Day 22	listening process
Day 23	group discussion
Day 24	Class Test
Day 25	group discussion
Day 26	forms of oral presentation
Day 27	forms of oral presentation
Day 28	self-presentation
Day 29	self-presentation
Day 30	dyadic communication,
Day 31	dyadic communication,
Day 32	dyadic communication,
Day 33	5C's of communication
Day 34	5C's of communication
Day 35	5C's of communication
Day 36	Developing dialogues
Day 37	Developing dialogues
Day 38	soft skill
Day 39	soft skill
Day 40	soft skill
Day 41	Basic vocabulary
Day 42	Basic vocabulary
Day 43	how to improve vocabulary
Day 44	how to improve vocabulary
Day 45	prefix/suffix
Day 46	prefix/suffix

Day 47	prefix/suffix
Day 48	synonyms/antonyms
Day 49	synonyms/antonyms
Day 50	synonyms/antonyms
Day 51	synonyms/antonyms
Day 52	one word substitution
Day 53	one word substitution
Day 54	one word substitution
Day 55	one word substitution
Day 56	spellings
Day 57	spellings
Day 58	spellings
Day 59	spellings
Day 60	Developing fluency:
Day 61	Developing fluency:
Day 62	grammar -conjunction
Day 63	grammar -conjunction
Day 64	auxiliaries
Day 65	auxiliaries
Day 66	auxiliaries
Day 67	auxiliaries
Day 68	prepositions, articles
Day 69	prepositions, articles
Day 70	Class Test
Day 71	prepositions, articles
Day 72	language games
Day 73	language games
Day 74	language games
Day 75	Proper use of Language
Day 76	Proper use of Language
Day 77	The Communication Skills
Day 78	The Communication Skills
Day 79	The effective Speech.
Day 80	The effective Speech.
Day 81	The effective Speech.
Day 82	Effective self-presentation & facing interview
Day 83	Effective self-presentation & facing interview
Day 84	The interview process & preparing for it
Day 85	The interview process & preparing for it
Day 86	The presentation skills.
Day 87	The presentation skills.
Day 88	Revision
Day 89	Revision
Day 90	Revision

Name of the professor: Ms. Gurpreet Kaur/Ms. Vishakha	
Class and Section: BCA-3RD Year, Section-A and Section-B	
Subject: MIS	
Day 1	Introduction to system and Basic System Concepts
Day 2	Introduction to system and Basic System Concepts
Day 3	Types of Systems
Day 4	Types of Systems
Day 5	The Systems Approach
Day 6	The Systems Approach
Day 7	Information System
Day 8	Definition & Characteristics
Day 9	Definition & Characteristics
Day 10	Types of information
Day 11	Types of information
Day 12	Role of Information in: Decision-Making
Day 13	Role of Information in: Decision-Making
Day 14	Sub-Systems of an Information system
Day 15	Sub-Systems of an Information system
Day 16	Revision Test
Day 17	EDP and MIS
Day 18	EDP and MIS
Day 19	management levels
Day 20	management levels
Day 21	EDP/MIS/DSS.
Day 22	EDP/MIS/DSS.
Day 23	Doubt Class
Day 24	Revision Test
Day 25	An overview of Management Information System: Definition & Characteristics
Day 26	An overview of Management Information System: Definition & Characteristics
Day 27	Components of MIS
Day 28	Components of MIS
Day 29	Frame Work for Understanding MIS
Day 30	Frame Work for Understanding MIS
Day 31	Information requirements & Levels of Management
Day 32	Information requirements & Levels of Management
Day 33	Information requirements & Levels of Management
Day 34	Simon's Model of decision-Making
Day 35	Simon's Model of decision-Making
Day 36	Simon's Model of decision-Making
Day 37	Doubt Class
Day 38	Revision Test
Day 39	Structured Vs Un-structured decisions
Day 40	Structured Vs Un-structured decisions
Day 41	Structured Vs Un-structured decisions
Day 42	Formal vs. Informal systems
Day 43	Formal vs. Informal systems
Day 44	Developing Information Systems: Analysis & Design of Information Systems:.,.
Day 45	Developing Information Systems: Analysis & Design of Information Systems:
Day 46	Developing Information Systems: Analysis & Design of Information Systems:

Day 47	Implementation & Evaluation
Day 48	Implementation & Evaluation
Day 49	Doubt Class
Day 50	Revision Test
Day 51	Pitfalls in MIS Development
Day 52	Pitfalls in MIS Development
Day 53	Pitfalls in MIS Development
Day 54	Functional MIS
Day 55	Functional MIS
Day 56	A Study of Personnel, Financial and production MIS
Day 57	A Study of Personnel, Financial and production MIS
Day 58	A Study of Personnel, Financial and production MIS
Day 59	Doubt Class
Day 60	Revision Test
Day 61	Introduction to e-business systems
Day 62	Introduction to e-business systems
Day 63	ecommerce – technologies
Day 64	ecommerce – technologies
Day 65	applications
Day 66	applications
Day 67	Decision support systems
Day 68	Decision support systems
Day 69	Decision support systems
Day 70	support systems for planning
Day 71	support systems for planning
Day 72	support systems for planning
Day 73	Doubt Class
Day 74	Revision Test
Day 75	control and decision-making
Day 76	control and decision-making
Day 77	control and decision-making
Day 78	Revision Class
Day 79	Revision Class
Day 80	Doubt Class
Day 81	Revision Test
Day 82	Discussion of previous Year Question Papers
Day 83	Discussion of previous Year Question Papers
Day 84	Discussion of previous Year Question Papers
Day 85	Discussion of previous Year Question Papers
Day 86	Discussion of previous Year Question Papers
Day 87	Discussion of previous Year Question Papers
Day 88	Discussion of previous Year Question Papers
Day 89	Doubt Class
Day 90	Full Syllabus Test

Name of the professor: Ms. Kritika Vaid and Ms. Shivani Gupta
Class and Section: BCA-3rd Year Section-A and Section-B
Subject: Computer Graphics

Day 1	Introduction to computer graphics
Day 2	Basics of Graphics systems
Day 3	Application areas of Computer Graphics
Day 4	overview of graphics systems
Day 5	overview of graphics systems
Day 6	video-display devices
Day 7	video-display devices
Day 8	raster-scan systems
Day 9	raster-scan systems
Day 10	random scan systems
Day 11	graphics monitors and workstations
Day 12	graphics monitors and workstations
Day 13	input devices
Day 14	Points and lines
Day 15	line drawing algorithms
Day 16	mid-point circle
Day 17	mid-point circle
Day 18	Ellipse algorithms
Day 19	Filled area primitives
Day 20	Scan line polygon fill algorithm
Day 21	boundary fill
Day 22	Flood-fill algorithm
Day 23	2-D Geometrical Transforms
Day 24	Translation
Day 25	Class Test-1
Day 26	scaling
Day 27	scaling
Day 28	rotation
Day 29	reflection
Day 30	Shear transformations,
Day 31	matrix representations
Day 32	homogeneous coordinates
Day 33	composite transforms
Day 34	transformations between coordinate systems
Day 35	transformations between coordinate systems
Day 36	The viewing pipeline,
Day 37	viewing coordinate reference frame
Day 38	window to view- viewport coordinate transformation
Day 39	viewing functions
Day 40	viewing functions
Day 41	Cohen-Sutherland
Day 42	Cyrus-beck line clipping algorithms,
Day 43	Sutherland –Hodgeman polygon clipping algorithm
Day 44	Revision

Day 45	3-D Object Representation
Day 46	Polygon surfaces
Day 47	quadric surfaces
Day 48	spline representation
Day 49	Hermite curve, Bezier curve and B-Spline curves
Day 50	Bezier curve
Day 51	Bezier curve
Day 52	B-Spline curves
Day 53	B-Spline curves
Day 54	Basic illumination models, polygon-rendering methods
Day 55	Basic illumination models, polygon-rendering methods
Day 56	Class Test
Day 57	3-D Geometric Transformations
Day 58	Translation
Day 59	rotation
Day 60	scaling
Day 61	reflection
Day 62	Shear transformations
Day 63	composite transformations
Day 64	3-D Viewing
Day 65	Viewing pipeline
Day 66	viewing coordinates
Day 67	view volume and general projection
Day 68	view volume and general projection
Day 69	transforms
Day 70	transforms
Day 71	clipping
Day 72	clipping
Day 73	Shear transformations
Day 74	composite transformations
Day 75	Revision
Day 76	Revision
Day 77	Revision
Day 78	Revision
Day 79	Revision
Day 80	Revision
Day 81	Revision
Day 82	Revision
Day 83	Class Test-1
Day 84	Previous Questions
Day 85	Previous Questions
Day 86	Previous Questions
Day 87	Revision
Day 88	Revision
Day 89	Full Syllabus Test
Day 90	Full Syllabus Test

Name of the professor: Ms. Kamiya Chugh
Class And Section: BCA 3rd year (A+B)
Subject: Data Communication & Networking (BCA- 303)

Day 1	Introduction Of The Syllabus
Day 2	Unit wise introduction
Day 3	Introduction to Computer Communications
Day 4	Networking technologies
Day 5	Uses of Computer Networks
Day 6	Network Devices Nodes, and Hosts
Day 7	Nodes, and Hosts
Day 8	Types of Computer Networks
Day 9	Topologies
Day 10	Design Network Software: Network issues
Day 11	Protocols
Day 12	Connection-Oriented and Connectionless Services
Day 13	Network Applications
Day 14	Application Protocols
Day 15	Computer Communications and Networking Models
Day 16	Decentralized and Centralized Systems
Day 17	Distributed Systems, Client/Server Model
Day 18	Peer-to-Peer Model, Web-Based Model
Day 19	Network Architecture and the OSI Reference Model
Day 20	TCP/IP reference model
Day 21	X.25, Frame Relay, ATM.
Day 22	Doubt class of unit 1
Day 23	Analog Communications Concepts
Day 24	Analog Communications Concepts
Day 25	Digital Communications Concepts
Day 26	Digital Communications Concepts
Day 27	Concept of data, signal, channel, bid-rate
Day 28	maximum data-rate of channel
Day 29	Representing Data as Analog Signals
Day 30	Representing Data as Digital Signals
Day 31	Data Rate and Bandwidth
Day 32	Capacity, Baud Rate
Day 33	Asynchronous and synchronous transmission
Day 34	Modulation techniques, Digital Carrier Systems
Day 35	Guided and Wireless Transmission Media
Day 36	Class test of unit 1
Day 37	Communication Satellites
Day 38	Switching Techniques
Day 39	Circuit Switching
Day 40	Packet Switching
Day 41	Message Switching
Day 42	Multiplexing

Day 43	Multiplexing
Day 44	Dialup Networking
Day 45	Analog Modem Concepts, DSL Service.
Day 46	Doubt class of unit 2
Day 47	Framing
Day 48	Framing
Day 49	Flow Control
Day 50	Error Control with numerical
Day 51	Error Control with numerical
Day 52	Error Detection and Correction(including numerical)
Day 53	Error Detection and Correction(including numerical)
Day 54	Sliding Window Protocols
Day 55	Class test of Unit 2
Day 56	Sliding Window Protocols
Day 57	Media Access Control: Random Access Protocols,
Day 58	Token Passing protocols, Token Ring
Day 59	Introduction to LAN technologies: Ethernet, switched Ethernet
Day 60	Doubt class
Day 61	VLAN, fast Ethernet, gigabit Ethernet, token ring
Day 62	FDDI, Wireless LANs
Day 63	Bluetooth
Day 64	Network Hardware Components: Connectors, Transceivers, Repeaters, Hubs, Network
Day 65	Network Hardware Components: Connectors, Transceivers, Repeaters, Hubs, Network
Day 66	Interface Cards and PC Cards, Bridges, Switches, Routers, Gateways
Day 67	Interface Cards and PC Cards, Bridges, Switches, Routers, Gateways
Day 68	Doubt class
Day 69	Network Layer and Routing Concepts: Virtual Circuits and datagram
Day 70	Routing Algorithms: Flooding
Day 71	Routing Algorithms: Flooding
Day 72	Shortest Path Routing
Day 73	Shortest Path Routing
Day 74	Class test of unit 3
Day 75	Distance Vector Routing
Day 76	Link State Routing
Day 77	Hierarchical Routing
Day 78	Congestion Control Algorithms
Day 79	Congestion Control Algorithms
Day 80	Internetworking
Day 81	Internetworking with examples
Day 82	Internetworking
Day 83	Network Security Issues: Security threats
Day 84	Encryption Methods
Day 85	Security Principles
Day 86	Symmetric Key algorithm with examples

Day 87	Asymmetric Key algorithm with examples
Day 88	Previous year paper discussion
Day 89	Previous year paper discussion
Day 90	Previous year paper discussion

Name of the professor: Dr. Neha Jain/ Ms.Vishakha Class And Section: BCA Final year Sec-(A+B) Subject: Visual Basics	
Day 1	Introduction to VB: Visual & non-visual programming, Procedural
Day 2	Object-oriented and Event driven programming languages
Day 3	The VB environment: Menu bar, Toolbar, Project explorer
Day 4	The VB environment: Menu bar, Toolbar, Project explorer
Day 5	Project explorer , Toolbox, Properties window
Day 6	Toolbox, Properties window
Day 7	Properties window , Form designer
Day 8	Form layout
Day 9	Immediate window
Day 10	Visual Development and Event Driven programming
Day 11	Visual Development and Event Driven programming
Day 12	Basics of Programming: Variables: Declaring variables
Day 13	Revision of unit 1
Day 14	Test of unit 1
Day 15	Unit -2 Types of variables
Day 16	Converting variables types
Day 17	Converting variables types
Day 18	User-defined data types
Day 19	User-defined data types
Day 20	User-defined data types
Day 21	Forcing variable declaration
Day 22	Scope & lifetime of variables.
Day 23	Scope & lifetime of variables. Constants: Named & intrinsic
Day 24	Operators: Arithmetic, Relational & Logical operators.
Day 25	Operators: Arithmetic, Relational & Logical operators
Day 26	Operators: Arithmetic, Relational & Logical operators
Day 27	Operators: Arithmetic, Relational & Logical operators
Day 28	I/O in VB: Various controls for I/O in VB
Day 29	I/O in VB: Various controls for I/O in VB, Message box
Day 30	Message box, Input Box
Day 31	Print statement.
Day 32	Revision of unit 2
Day 33	Revision of unit 2

Day 34	Test of unit 2
Day 35	Programming with VB: Decisions and conditions: If statement, If-then-else
Day 36	Programming with VB: Decisions and conditions: Select-case
Day 37	Looping statements: Do-loops
Day 38	For-next, While-wend
Day 39	Exit statement
Day 40	Nested control structures
Day 41	Nested control structures
Day 42	Arrays: Declaring and using arrays, one-dimensional array
Day 43	one-dimensional array
Day 44	multi-dimensional arrays
Day 45	multi-dimensional arrays
Day 46	multi-dimensional arrays
Day 47	Static & dynamic arrays
Day 48	Static & dynamic arrays
Day 49	Arrays of array
Day 50	Arrays of array
Day 51	Collections: Adding
Day 52	Collections: Removing
Day 53	Collection: Counting,
Day 54	Collection: Returning items in a collection
Day 55	Collection: Processing a collection
Day 56	Revision of unit 3
Day 57	Revision of unit 3
Day 58	Programming with VB: Procedures: General
Day 59	Programming with VB: Procedures: General & event procedures
Day 60	Programming with VB: Procedures:, Subroutines, Functions
Day 61	Calling procedures
Day 62	Arguments- passing mechanisms
Day 63	Optional arguments
Day 64	Named arguments
Day 65	Functions returning custom data types
Day 66	Functions returning arrays
Day 67	Working with forms and menus : Adding multiple forms in VB
Day 68	Working with forms and menus : Hiding & showing forms
Day 69	Hiding & showing forms
Day 70	Load & unload statements
Day 71	creating menu
Day 72	submenu, popup menus
Day 73	Activate & deactivate events.
Day 74	Form-load event
Day 75	Form-load event
Day 76	menu designing in VB
Day 77	menu designing in VB
Day 78	menu designing in VB
Day 79	menu designing in VB
Day 80	menu designing in VB
Day 81	Simple programs in VB
Day 82	Simple programs in VB
Day 83	Simple programs in VB

Day 84	Simple programs in VB
Day 85	Revision full syllabus
Day 86	Revision full syllabus
Day 87	Revision full syllabus
Day 88	Revision full syllabus
Day 89	Revision full syllabus
Day 90	Revision full syllabus