

Lesson Plans

of

BCA

Session: 2022-23
(Even Semester)

K.L MEHTA DAYANAND COLLEGE FOR WOMEN, FARIDABAD
LESSON PLAN FOR THE SESSION 2022-23

Name of the professor: Ms. Poonam Ms. Rupinder kaur	
Class And Section : BCA IInd Sem	
Subject: BCA-106 : 'C' PROGRAMMING	
Day 1	Overview of C
Day 2	History of C
Day 3	Importance of C
Day 4	Elements of C
Day 5	C character set
Day 6	identifiers and keywords,
Day 7	Data Types
Day 8	Constants And Variables
Day 9	Assignment Statement
Day 10	Symbolic Constant
Day 11	Structure Of A C Program
Day 12	Printf(), Scanf() Functions
Day 13	Operators & Expression
Day 14	Arithmetic, Relational
Day 15	Logical, Bitwise, Unary, Assignment Operator
Day 16	Bitwise Operator
Day 17	Shorthand Assignment Operators
Day 18	Conditional Operators, Increment And Decrement Operators
Day 19	Test
Day 20	Arithmetic expressions, evaluation of arithmetic expression
Day 21	Type casting and conversion
Day 22	operator hierarchy & associativity
Day 23	Decision making & branching
Day 24	Decision making with IF statement
Day 25	IF-ELSE statement
Day 26	Nested IF statement
Day 27	Nested IF statement
Day 28	Nested IF statement
Day 29	ELSE-IF ladder
Day 30	ELSE-IF ladder
Day 31	switch statement
Day 32	switch statement
Day 33	Decision making & looping:
Day 34	while loop
Day 35	while loop
Day 36	do-while loop
Day 37	For Loop
Day 38	jumps in loops, break, continue statement
Day 39	Nested loops
Day 40	goto statement
Day 41	Break, continue
Day 42	Functions: Standard Mathematical functions
Day 43	Input/output: Unformatted & formatted I/O function in C
Day 44	Input/output: Unformatted & formatted I/O function in C
Day 45	Input functions viz. getch(), getche(), getchar(), gets(),
Day 46	output functions viz., putchar(), puts()
Day 47	String manipulation functions

Day 48	User defined functions: Introduction/Definition
Day 49	User defined functions
Day 50	User defined functions
Day 51	User defined functions
Day 52	prototype,Local and global variables,Local and global variables
Day 53	prototype,Local and global variables,Local and global variables
Day 54	passing parameters
Day 55	recursion.
Day 56	Doubt
Day 57	Array
Day 58	Arrays Definition,initialization
Day 59	Array types
Day 60	Array
Day 61	Test
Day 62	Doubt
Day 63	2D Array
Day 64	2D Array
Day 65	processing an array
Day 66	passing arrays to functions
Day 67	passing arrays to functions
Day 68	Declaration of String
Day 69	String
Day 70	String
Day 71	String Function
Day 72	String Function
Day 73	String Function
Day 74	Doubt
Day 75	Introduction to pointers
Day 76	Introduction to pointers
Day 77	Storage classes in C
Day 78	Storage classes in C
Day 79	Auto,extern,register
Day 80	Auto,extern,register
Day 81	Static storage class their scope storage, & lifetime
Day 82	Static storage class their scope storage, & lifetime
Day 83	Algorithm development
Day 84	Flow charting
Day 85	Development of efficient program in C
Day 86	Revision
Day 87	Revision
Day 88	Discuss Previous Year Question Paper
Day 89	Discuss Previous Year Question Paper
Day 90	Discuss Previous Year Question Paper

**K.L MEHTA DAYANAND COLLEGE FOR WOMEN,FARIDABAD
LESSON PLAN FOR THE SESSION 2022-23**

Name of the professor:Ms. Kritika Vaid and Ms. Ayesha	
Class And Section:BCA-IIInd Sem (Section-A and Section-B)	
Subject:LOC-II (BCA-107)	
Day 1	Introduction
Day 2	Sequential Logic
Day 3	Sequential Logic: Characteristics
Day 4	Flip-Flops
Day 5	Clocked RS
Day 6	Clocked RS
Day 7	JK Flip Flop
Day 8	JK Flip Flop
Day 9	Master- Slave flip-flops
Day 10	Master- Slave flip-flops
Day 11	T type flip flop
Day 12	D type
Day 13	Revision
Day 14	Test
Day 15	State table
Day 16	State diagram
Day 17	State equations
Day 18	Flip-flop excitation tables
Day 19	Revision
Day 20	Test
Day 21	Sequential Circuits
Day 22	Designing registers
Day 23	Serial Input Serial Output (SISO)
Day 24	Parallel Output (SIPO)
Day 25	Parallel Input Serial Output (PISO)
Day 26	Parallel Input Parallel Output (PIPO)
Day 27	shift registers
Day 28	Revision
Day 29	Test
Day 30	Designing counters
Day 31	Designing counters – Asynchronous and Synchronous Binary
Day 32	Designing counters – Asynchronous and Synchronous Binary
Day 33	Designing counters – Asynchronous and Synchronous Binary
Day 34	Modulo-N Counters
Day 35	Modulo-N Counters
Day 36	Up-Down Counters
Day 37	Up-Down Counters
Day 38	Revision
Day 39	Test
Day 40	Memory
Day 41	Memory & I/O Devices
Day 42	Memory & I/O Devices
Day 43	Memory Parameters
Day 44	Semiconductor RAM
Day 45	Semiconductor ROM
Day 46	Magnetic Storage devices

Day 47	Magnetic Storage devices
Day 48	Optical Storage devices
Day 49	Optical Storage devices
Day 50	Flash memory
Day 51	Revision
Day 52	Test
Day 53	Input Devices
Day 54	Output devices
Day 55	I/O Devices and their controllers.
Day 56	I/O Devices and their controllers.
Day 57	Revision
Day 58	Test
Day 59	Instruction Design & I/O Organization
Day 60	Instruction Design
Day 61	Instruction Design
Day 62	Machine instruction
Day 63	Machine instruction
Day 64	Instruction set selection
Day 65	Instruction set selection
Day 66	Instruction cycle
Day 67	Instruction cycle
Day 68	Instruction Format
Day 69	Instruction Format
Day 70	Addressing Modes
Day 71	Addressing Modes
Day 72	I/O Interface
Day 73	I/O Interface, Interrupt
Day 74	Interrupt structure
Day 75	Interrupt structure
Day 76	Program-controlled
Day 77	Program-controlled
Day 78	Interrupt-controlled
Day 79	Interrupt-controlled
Day 80	DMA transfer
Day 81	DMA transfer
Day 82	I/O Channels
Day 83	I/O Channels, .
Day 84	IOP
Day 85	Revision
Day 86	Test
Day 87	Revision of Previous Year Question Paper
Day 88	Revision of Previous Year Question Paper
Day 89	Revision of Previous Year Question Paper
Day 90	Revision

*As per number of periods /week

K.L MEHTA DAYANAND COLLEGE FOR WOMEN,FARIDABAD
LESSON PLAN FOR THE SESSION 2022-23

Name of the professor:Ms. Vishakha ,Ms. Garima

Class And Section:BCA IInd Sem, (Sec A, Sec B)

Subject:MATHEMATICAL FOUNDATIONS OF COMPUTER SCIENCE(BCA-108)

Day 1	Measure of Central Tendency
Day 2	Measure of Central Tendency
Day 3	Preparing frequency distribution table
Day 4	Preparing frequency distribution table
Day 5	Mean
Day 6	Mean
Day 7	Mean,Mode
Day 8	Mode
Day 9	Mode
Day 10	Median
Day 11	Median
Day 12	Median
Day 13	Measure of Dispersion: Range
Day 14	Measure of Dispersion: Range
Day 15	Variance
Day 16	Variance
Day 17	Standard Deviations
Day 18	Standard Deviations
Day 19	Correlation and Regression
Day 20	Correlation and Regression
Day 21	Correlation and Regression
Day 22	Correlation and Regression
Day 23	Algorithms
Day 24	Algorithms, merits and demerits
Day 25	Exponentiation
Day 26	Exponentiation
Day 27	Exponentiation
Day 28	How to compute fast exponentiation
Day 29	How to compute fast exponentiation
Day 30	How to compute fast exponentiation
Day 31	Linear Search
Day 32	Linear Search
Day 33	Linear Search
Day 34	Binary Search
Day 35	Binary Search
Day 36	Binary Search
Day 37	"Big Oh" notation
Day 38	"Big Oh" notation
Day 39	Worst case
Day 40	Worst case
Day 41	Worst case
Day 42	Advantage

Day 43	Graphs
Day 44	Graphs
Day 45	degree of vertex
Day 46	sub graph
Day 47	isomorphic
Day 48	homeomorphic graphs
Day 49	Adjacent and incidence matrices
Day 50	Adjacent and incidence matrices
Day 51	Path Circuit
Day 52	Eulerian,
Day 53	Hamiltonian path circuit
Day 54	Hamiltonian path circuit
Day 55	Trees
Day 56	Minimum distance trees
Day 57	Minimum weight
Day 58	Minimum distance
Day 59	spanning trees
Day 60	Recursion: Recursively defined function.
Day 61	Recursion: Recursively defined function.
Day 62	Merge sort
Day 63	Merge sort
Day 64	Insertion sort
Day 65	Insertion sort
Day 66	Bubble sort
Day 67	Bubble sort
Day 68	Decimal to Binary
Day 69	Decimal to Binary
Day 70	LHRR
Day 71	LHRRWCCs,
Day 72	LHRRWCCs,
Day 73	DCRR
Day 74	DCRR
Day 75	Recursive procedures.
Day 76	Recursive procedures.
Day 77	Principle of Mathematical induction
Day 78	Principle of Mathematical induction
Day 79	Principle of Mathematical induction
Day 80	GCD
Day 81	GCD
Day 82	Euclidean algorithm
Day 83	Euclidean algorithm
Day 84	Fibonacci numbers
Day 85	congruences
Day 86	equivalence relations
Day 87	public key encryption schemes.
Day 88	public key encryption schemes
Day 89	Revision
Day 90	Revision

K.L MEHTA DAYANAND COLLEGE FOR WOMEN, FARIDABAD
LESSON PLAN FOR THE SESSION 2022-23

Name of the professor: Ms. Poonam & Ms. Gurpreet kaur	
Class And Section: BCA 1 year ,2nd Sem	
Subject: - BCA-109 Structured System Analysis and Design	
Day 1	Introduction to system
Day 2	Definition and characteristics of a system
Day 3	Elements of system
Day 4	Elements of system
Day 5	Type of systems
Day 6	System development life cycle
Day 7	System development life cycle
Day 8	System development life cycle
Day 9	Role of system analyst
Day 10	Role of system analyst
Day 11	Analyst/user interface
Day 12	System planning and initial investigation
Day 13	Bases for planning in system analysis
Day 14	Sources of project requests
Day 15	Sources of project requests
Day 16	Initial investigation
Day 17	Fact finding
Day 18	Fact finding
Day 19	Information gathering
Day 20	information gathering tools
Day 21	information gathering tools
Day 22	information gathering tools
Day 23	information gathering tools
Day 24	Fact analysis
Day 25	Determination of feasibility
Day 26	Feasibility
Day 27	Introduction Structured analysis
Day 28	Tools of structured analysis
Day 29	Flow charts
Day 30	DFD
Day 31	DFD
Day 32	Data dictionary
Day 33	Gantt charts
Day 34	decision tree
Day 35	decision table
Day 36	structured English
Day 37	Pros and cons of each tool
Day 38	Test
Day 39	Feasibility study
Day 40	Feasibility study -Objective, Types
Day 41	Steps in feasibility analysis

Day 42	Feasibility report
Day 43	Oral presentation
Day 44	Cost and benefit analysis:
Day 45	Identification of costs and benefits
Day 46	classification of costs and benefits
Day 47	Methods of determining costs and benefits
Day 48	Interpret results of analysis and take final action
Day 49	Test
Day 50	System Design
Day 51	System design objective
Day 52	Design Methodologies
Day 53	Design Methodologies
Day 54	Logical and physical design
Day 55	structured design
Day 56	structured design
Day 57	Form-Driven methodology(IPO charts)
Day 58	Form-Driven methodology(IPO charts)
Day 59	structured walkthrough
Day 60	structured walkthrough
Day 61	Input/Output and form design
Day 62	Input design, Objectives of input design
Day 63	Output design, Objectives of output design
Day 64	Form design
Day 65	Classification of forms
Day 66	requirements of form design
Day 67	Types of forms
Day 68	Layout considerations
Day 69	Form control
Day 70	System testing: Introduction
Day 71	Objectives of testing
Day 72	Test plan
Day 73	testing techniques
Day 74	testing techniques
Day 75	Types of system tests
Day 76	Types of system tests
Day 77	Quality assurance goals in system life cycle
Day 78	System implementation
Day 79	Process of implementation
Day 80	System evaluation
Day 81	System maintenance and its types
Day 82	System documentation
Day 83	Forms of documentation
Day 84	Doubt

Day 85	Test
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	Discussion of Previous Year Question Paper
Day 90	Discussion of Previous Year Question Paper

**K.L MEHTA DAYANAND COLLEGE FOR WOMEN,FARIDABAD
LESSON PLAN FOR THE SESSION 2022-23**

Name of the professor: Ms. Kamiya Chugh and Ms. Ayeesha	
Class And Section: BCA 4th Sem (Section-A and Section -B)	
Subject:Web Designing(BCA – 206)	
Day 1	Introduction Class
Day 2	Introduction to Internet
Day 3	World Wide Web
Day 4	Evolution and History of World Wide Web
Day 5	Evolution and History of World Wide Web
Day 6	Web Browsers
Day 7	Web Servers
Day 8	Hypertext Transfer Protocol
Day 9	Revision class
Day 10	Revision class
Day 11	Overview of TCP/IP
Day 12	TCP/IP and its services
Day 13	URLs
Day 14	Searching
Day 15	Web-Casting Techniques
Day 16	Searching and Web-Casting Techniques
Day 17	Search Engines
Day 18	Revision class
Day 19	Search Tools
Day 20	Revision class
Day 21	Test Unit-1
Day 22	Web Publishing
Day 23	Hosting your Site
Day 24	Internet Service Provider
Day 25	Web terminologies
Day 26	Phases of Planning
Day 27	Phases of Planning and designing your Web Site
Day 28	Phases of Planning and designing your Web Site
Day 29	Steps for developing your Site
Day 30	Steps for developing your Site
Day 31	Revision class
Day 32	Choosing the contents
Day 33	Choosing the contents
Day 34	Home Page
Day 35	Revision class
Day 36	Domain Names
Day 37	Domain Names
Day 38	Front page views
Day 39	Front page views
Day 40	Adding pictures
Day 41	Adding pictures
Day 42	Links
Day 43	Backgrounds
Day 44	Relating Front Page to DHTML
Day 45	Relating Front Page to DHTML
Day 46	Creating a Website and the Markup Languages (HTML, DHTML)

Day 47	Revision class
Day 48	Revision class
Day 49	Test Unit-2
Day 50	Introduction of Web Development
Day 51	Introduction to HTML
Day 52	Hypertext and HTML
Day 53	HTML Document
Day 54	HTML features
Day 55	HTML command Tags
Day 56	HTML command Tags
Day 57	Creating Links
Day 58	Creating Links
Day 59	Headers
Day 60	Text styles
Day 61	Text Structuring
Day 62	Text colors
Day 63	Text colors and Background
Day 64	Formatting text
Day 65	Page layouts
Day 66	Images
Day 67	Ordered list
Day 68	Unordered lists
Day 69	Inserting Graphics
Day 70	Table Creation
Day 71	Layouts
Day 72	Table Creation and Layouts
Day 73	Frame Creation
Day 74	Frame Creation and Layouts
Day 75	Working with Forms
Day 76	Working with Menus
Day 77	Working with Radio Button
Day 78	Check Boxes & Text Boxes
Day 79	Test Unit-3
Day 80	DHTML: Dynamic HTML, Features of DHTML
Day 81	CSSP(cascading style sheet positioning)
Day 82	JSSS(JavaScript assisted style sheet)
Day 83	JSSS(JavaScript assisted style sheet)
Day 84	Layers of netscape
Day 85	The ID attributes
Day 86	DHTML events.
Day 87	Test Unit-4
Day 88	Revision Previous year question paper
Day 89	Revision Previous year question paper
Day 90	Revision Previous year question paper

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LESSON PLAN FOR THE SESSION 2022-23

Name of the professor: Ms. Gurpreet Kaur , Ms. Poonam	
Class and Section: BCA-4th Sem, Section- A & B	
Subject: Data Structure-II(BCA-207)	
Day 1	Introduction
Day 2	Tree: Header nodes
Day 3	Tree: Header nodes, Threads
Day 4	Binary search trees, Searching
Day 5	Binary search trees, Insertion
Day 6	Binary search trees, Deletion
Day 7	AVL search trees Introduction
Day 8	AVL search trees Insertion
Day 9	AVL search trees Insertion
Day 10	AVL search trees Deletion
Day 11	m-way search tree Introduction
Day 12	m-way search tree Introduction
Day 13	m-way search tree Insertion
Day 14	m-way search tree Deletion
Day 15	Doubt Class
Day 16	Revision Test
Day 17	B-trees
Day 18	B-trees Insertion
Day 19	B-trees Deletion
Day 20	B+ tree Introduction
Day 21	B+tree Insertion
Day 22	B+tree Deletion
Day 23	Doubt Class
Day 24	Huffman's algorithm
Day 25	Huffman's algorithm
Day 26	General trees
Day 27	Doubt Class
Day 28	Revision Test
Day 29	Graphs: Warshall's algorithm for shortest path
Day 30	Graphs: Warshall's algorithm for shortest path
Day 31	Dijkstra algorithm for shortest path
Day 32	Operations on graphs
Day 33	Operations on graphs
Day 34	Operations on graphs
Day 35	Doubt Class
Day 36	Revision Test
Day 37	Traversal of graph
Day 38	Traversal of graph
Day 39	Topological sorting.
Day 40	Topological sorting.
Day 41	Doubt Class
Day 42	Revision Test
Day 43	Sorting: Internal & external sorting
Day 44	Radix sort
Day 45	Quick sort
Day 46	Quick sort

Day 47	Heap sort
Day 48	Heap sort
Day 49	Doubt Class
Day 50	Revision Test
Day 51	Merge sort
Day 52	Merge sort
Day 53	Tournament sort
Day 54	Searching: Linear search
Day 55	Binary search
Day 56	Doubt Class
Day 57	Revision Test
Day 58	merging
Day 59	merging
Day 60	Comparison of various sorting and searching algorithms on the basis of their complexity.
Day 61	Comparison of various sorting and searching algorithms on the basis of their complexity.
Day 62	Doubt Class
Day 63	Revision Test
Day 64	Files: Physical storage devices and their characteristics
Day 65	Attributes of a file viz fields, records
Day 66	Fixed and variable length records
Day 67	Primary and secondary keys
Day 68	Classification of files
Day 69	File operations
Day 70	File operations
Day 71	Comparison of various types of files
Day 72	File organization: Serial
Day 73	File organization: Sequential
Day 74	File organization: Indexed- Sequential
Day 75	Doubt Class
Day 76	Revision Test
Day 77	Random-access/Direct
Day 78	Inverted
Day 79	Multi-list file organization
Day 80	Multilist file organization
Day 81	Hashing: Introduction, Hashing functions
Day 82	Collision resolution methods .
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

K.L MEHTA DAYANAND COLLEGE FOR WOMEN,FARIDABAD
LESSON PLAN FOR THE SESSION 2022-23

Name of the professor: Ms. Neetu & Ms. Shivani Gupta	
Class And Section: BCA 4th Sem (Section-A and Section -B)	
Subject: Object Oriented Programming Using C++(BCA-208)	
Day 1	Introduction to Oops
Day 2	Object Oriented Programming Concepts
Day 3	Procedural Language and Object Oriented approach
Day 4	Procedural Language and Object Oriented approach
Day 5	Procedural Language and Object Oriented approach
Day 6	Characteristics of OOP, user defined types
Day 7	Characteristics of OOP, user defined types
Day 8	polymorphism
Day 9	encapsulation
Day 10	Getting started with C++ syntax
Day 11	Getting started with C++ syntax
Day 12	data types, variables, string, function, namespace and exception
Day 13	data types, variables, string, function, namespace and exception
Day 14	data types, variables, string, function, namespace and exception
Day 15	operators
Day 16	flow control
Day 17	recursion
Day 18	array and pointer
Day 19	array and pointer
Day 20	structure
Day 21	structure
Day 22	Test
Day 23	Abstracting Mechanism
Day 24	Abstracting Mechanism
Day 25	classes, private and public
Day 26	classes, private and public
Day 27	Revision
Day 28	Constructor and Destructor
Day 29	Constructor and Destructor
Day 30	member function, static members, references
Day 31	member function, static members, references
Day 32	Revision
Day 33	new, delete operator
Day 34	new, delete operator
Day 35	object copying
Day 36	copy constructor
Day 37	assignment operator
Day 38	this input/output
Day 39	assignment operator
Day 40	Test of unit – 2
Day 41	this input/output
Day 42	this input/output
Day 43	Oral test
Day 44	Inheritance
Day 45	Inheritance
Day 46	Inheritance

Day 47	Inheritance
Day 48	Inheritance
Day 49	Polymorphism
Day 50	Polymorphism
Day 51	Derived Class and Base Class
Day 52	Derived Class and Base Class
Day 53	Different types of Inheritance
Day 54	Different types of Inheritance
Day 55	Revision
Day 56	Test
Day 57	Overriding member function
Day 58	Overriding member function
Day 59	Abstract Class
Day 60	Abstract Class
Day 61	Public and Private Inheritance
Day 62	Public and Private Inheritance
Day 63	Ambiguity in Multiple inheritance
Day 64	Virtual function
Day 65	Friend function
Day 66	Static function.
Day 67	Exception Handling
Day 68	Exception and derived class
Day 69	template functions
Day 70	template functions
Day 71	function exception declaration, unexpected exception
Day 72	exception when handling exception,
Day 73	resource capture and release
Day 74	Template and Standard Template Library
Day 75	iterators, hashes, iostreams and other types
Day 76	iterators, hashes, iostreams and other types
Day 77	Template classes, declaration
Day 78	Template classes, declaration
Day 79	namespace, string
Day 80	namespace, string
Day 81	Revision
Day 82	Revision
Day 83	Revision
Day 84	Previous Year Question Paper
Day 85	Previous Year Question Paper
Day 86	Previous Year Question Paper
Day 87	Revision
Day 88	Revision
Day 89	Revision
Day 90	Revision

*As per number of periods /week

K.L MEHTA DAYANAND COLLEGE FOR WOMEN,FARIDABAD
LESSON PLAN FOR THE SESSION 2022-23

Name of the professor: Ms. Shivani Gupta and Kritika Vaid	
Class And Section: BCA 4th Sem (Section-A and Section -B)	
Subject: Software Engineering (BCA-209)	
Day 1	Introduction of Syllabus
Day 2	Introduction to Software Crisis
Day 3	Introduction to Software Processes & Characteristics
Day 4	Introduction to Software life cycle models
Day 5	Waterfall Model
Day 6	Prototype Model
Day 7	Evolutionary Model
Day 8	Spiral Model.
Day 9	Introduction to Software Requirements Analysis & Specifications
Day 10	Requirement engineering
Day 11	Requirement elicitation techniques like FAST, QFD
Day 12	Requirements analysis using DFD
Day 13	Data dictionaries
Day 14	ER Diagrams
Day 15	Requirements documentation
Day 16	Nature of SRS, Characteristics & organization of SRS
Day 17	Revision of Unit-1
Day 18	Test of Unit-1
Day 19	Introduction to Software Project Management Concept
Day 20	The Management spectrum
Day 21	The People The Problem
Day 22	The Process
Day 23	The Project
Day 24	Introduction to Software Project Planning
Day 25	Size Estimation
Day 26	Lines of Code
Day 27	Function Count
Day 28	Cost Estimation Models
Day 29	Introduction to COCOMO model
Day 30	Basic COCOMO model
Day 31	Intermediate COCOMO model
Day 32	Detailed COCOMO model
Day 33	Risk Management
Day 34	Risk Management(Continue...)
Day 35	Risk Management(Continue...)
Day 36	Revision of Project management
Day 37	Revision of Software Project Planning
Day 38	Revision of COCOMO model
Day 39	Revision of Risk Management
Day 40	Revision of Line of Codes and Functional Count
Day 41	Revision of Full Unit-2
Day 42	Test of Unit-2

Day 43	Introduction to Software Design
Day 44	Cohesion
Day 45	Classification of Cohesiveness
Day 46	Coupling
Day 47	Classification of Coupling
Day 48	Function Oriented Design
Day 49	Object Oriented Design
Day 50	Software Metrics
Day 51	Software measurements
Day 52	Token Count
Day 53	Halstead Software Science Measures
Day 54	Design Metrics
Day 55	Data Structure Metrics
Day 56	Introduction to Software Implementation
Day 57	Relationship between design and implementation
Day 58	Implementation issues and programming support environment
Day 59	Coding the procedural design
Day 60	Good coding style
Day 61	Revision of Cohesion and Coupling
Day 62	Revision of Object oriented Design
Day 63	Revision of Function Oriented Design
Day 64	Revision of Unit-3
Day 65	Test of Unit-3
Day 66	Introduction to Software Testing
Day 67	Testing Process
Day 68	Design of Test Cases
Day 69	Types of Testing
Day 70	Functional Testing
Day 71	Structural Testing
Day 72	Test Activities
Day 73	Unit Testing
Day 74	Integration Testing
Day 75	System Testing
Day 76	Debugging Activities.
Day 77	Introduction to Software Maintenance
Day 78	Management of Maintenance
Day 79	Maintenance Process
Day 80	Reverse Engineering
Day 81	Software Re-engineering
Day 82	Configuration Management, Documentation
Day 83	Test of Unit-4
Day 84	Previous Year Question Papers
Day 85	Previous Year Question Papers
Day 86	Revision of Full Syllabus
Day 87	Revision of Full Syllabus
Day 88	Revision of Full Syllabus
Day 89	Revision of Full Syllabus
Day 90	Revision of Full Syllabus

K.L MEHTA DAYANAND COLLEGE FOR WOMEN,FARIDABAD
LESSON PLAN FOR THE SESSION 2022-23

Name of the professor: Ms. Rupinder kaur and Ms. Ayeesha	
Class And Section : BCA 6th Sem(Section-A and Section-B)	
Subject: E-Commerce(BCA – 306)	
Day 1	Electronic Commerce
Day 2	Overview of Electronic Commerce
Day 3	Scope of Electronic Commerce,
Day 4	Traditional Commerce vs. Electronic Commerce
Day 5	Traditional Commerce vs. Electronic Commerce
Day 6	Impact of E-Commerce
Day 7	Impact of E-Commerce
Day 8	Electronic Markets,
Day 9	Electronic Markets,
Day 10	Electronic Markets,
Day 11	Internet Commerce,
Day 12	E-commerce in perspective
Day 13	E-commerce in perspective
Day 14	Application of E Commerce
Day 15	Application of E Commerce in Direct Marketing and Selling
Day 16	Application of E Commerce in Direct Marketing and Selling
Day 17	Obstacles in adopting E-Commerce Applications
Day 18	Obstacles in adopting E-Commerce Applications
Day 19	Future of E Commerce
Day 20	Value Chains in electronic Commerce
Day 21	Supply chain
Day 22	Supply chain
Day 23	Revision class
Day 24	Porter's value chain Model
Day 25	Porter's value chain Model
Day 26	Test Unit -1
Day 27	Inter Organizational value chains
Day 28	Inter Organizational value chains
Day 29	Strategic Business unit chains
Day 30	Industry value chains
Day 31	Security Threats to E-commerce
Day 32	Computer Security
Day 33	Copyright
Day 34	Copyright
Day 35	Intellectual Property rights
Day 36	Intellectual Property rights
Day 37	security Policy and Integrated Security,
Day 38	Revision class
Day 39	Electronic Commerce Threats
Day 40	Clients Threats
Day 41	Communication Channel Threats
Day 42	server Threats
Day 43	Revision class
Day 44	Revision class
Day 45	Assignment 2
Day 46	Implementing security for E-Commerce
Day 47	Implementing security for E-Commerce

Day 48	Protecting E-Commerce Assets,
Day 49	Protecting E-Commerce Assets,
Day 50	Revision class
Day 51	Test unit-2
Day 52	Protecting Client Computers
Day 53	Protecting Client Computers
Day 54	Protecting E-commerce Channels
Day 55	Insuring Transaction Integrity
Day 56	Insuring Transaction Integrity
Day 57	Electronic Payment System
Day 58	Electronic Cash,
Day 59	Electronic Wallets
Day 60	Smart Card
Day 61	Credit and Charge Card
Day 62	Implementing security for E-Commerce
Day 63	Protecting E-Commerce Assets,
Day 64	Revision class
Day 65	Protecting Client Computers
Day 66	Implementing security for E-Commerce
Day 67	Protecting E-Commerce Assets,
Day 68	Revision unit 3
Day 69	Test unit-3
Day 70	Assignment 3
Day 71	Business to Business E-Commerce
Day 72	Business to Business E-Commerce
Day 73	Inter-organizational Transitions
Day 74	Credit Transaction
Day 75	Trade Cycle and variety of transactions.
Day 76	Trade Cycle and variety of transactions.
Day 77	Revision class
Day 78	Introduction of EDI
Day 79	Benefits of EDI
Day 80	EDI Technology
Day 81	EDI standards
Day 82	EDI Communication
Day 83	EDI Implementation,
Day 84	EDI agreement
Day 85	EDI security.
Day 86	Revision class
Day 87	Test unit-4
Day 88	Discuss previous year question papers
Day 89	Discuss previous year question papers
Day 90	Discuss previous year question papers

K.L MEHTA DAYANAND COLLEGE FOR WOMEN, FARIDABAD
LESSON PLAN FOR THE SESSION 2022-23

Name of the professor: Ms. Sandhya, Ms Vishakha Garg	
Class And Section: 6th Sem (Sec B, Sec A)	
Subject: Object Technologies & Programming using Java (BCA-307)	
Day 1	Paradigms of Programming Languages
Day 2	Paradigms of Programming Languages
Day 3	Evolution of OO Methodology, Basic Concepts of OO Approach, Comparison of Object Oriented and Procedure Oriented Approaches
Day 4	Evolution of OO Methodology, Basic Concepts of OO Approach, Comparison of Object Oriented and Procedure Oriented Approaches
Day 5	Evolution of OO Methodology, Basic Concepts of OO Approach, Comparison of Object Oriented and Procedure Oriented Approaches
Day 6	Benefits of OOPs, Introduction to Common OO Language,
Day 7	Applications of OOPs .
Day 8	Applications of OOPs .
Day 9	Classes and Objects
Day 10	Classes and Objects
Day 11	Abstraction and Encapsulation
Day 12	Inheritance
Day 13	Method Overriding and Polymorphism
Day 14	Method Overriding and Polymorphism
Day 15	Method Overriding and Polymorphism
Day 16	Introduction To Java
Day 17	Basic Features
Day 18	Java Virtual Machine Concepts
Day 19	Java Virtual Machine Concepts,
Day 20	Primitive Data Type And Variables
Day 21	Primitive Data Type And Variables
Day 22	Java Operators
Day 23	Expressions
Day 24	Statements and Arrays
Day 25	Statements and Arrays
Day 26	Class and Objects-- Class Fundamentals
Day 27	Creating objects , Assigning object reference variables;
Day 28	Creating objects , Assigning object reference variables;
Day 29	Introducing Methods, Static methods
Day 30	Introducing Methods, Static methods
Day 31	Constructors
Day 32	Constructors
Day 33	Overloading constructors
Day 34	Overloading constructors
Day 35	This Keyword
Day 36	Using Objects as Parameters
Day 37	Argument passing
Day 38	Argument passing
Day 39	Returning objects
Day 40	Method overloading

Day 41	Garbage Collection,
Day 42	The Finalize () Method
Day 43	The Finalize () Method
Day 44	Inheritance Basics
Day 45	Access Control
Day 46	Multilevel Inheritance,
Day 47	Method Overriding,Abstract Classes
Day 48	Polymorphism, Final Keyword.
Day 49	Inheritance Basics
Day 50	Access Control
Day 51	Multilevel Inheritance
Day 52	Method Overriding
Day 53	Abstract Classes
Day 54	Polymorphism
Day 55	Final Keyword
Day 56	Defining Package
Day 57	CLASSPATH ,Package naming
Day 58	Accessibility of Packages ,using Package Members
Day 59	Accessibility of Packages ,using Package Members
Day 60	Revision
Day 61	Revision
Day 62	Test
Day 63	Test
Day 64	Implementing Interfaces
Day 65	Interface and Abstract Classes
Day 66	Extends and Implements together
Day 67	Exception , Handling of Exception
Day 68	Exception , Handling of Exception
Day 69	Using try-catch , Catching Multiple Exceptions
Day 70	Catching Multiple Exceptions
Day 71	Using finally clause
Day 72	Types of Exceptions
Day 73	Throwing Exceptions
Day 74	Throwing Exceptions
Day 75	Writing Exception Subclasses
Day 76	Introduction , The Main Thread
Day 77	Java Thread Model, Thread Priorities
Day 78	Java Thread Model, Thread Priorities
Day 79	I/O Basics, Streams and Stream Classes
Day 80	I/O Basics, Streams and Stream Classes
Day 81	The Predefined Streams
Day 82	Reading from and Writing to console
Day 83	Reading and Writing Files
Day 84	The Transient and Volatile Modifiers
Day 85	Using Instance of Native Methods.
Day 86	Fundamentals of Characters and Strings, The String Class
Day 87	String Operations , Data Conversion using Value Of () Methods
Day 88	String Buffer Class and Methods
Day 89	Revision
Day 90	Revision

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LESSON PLAN FOR THE SESSION 2022-23

Name of the professor: Dr. Neha Jain Ms. Gurpreet Kaur	
Class and Section: BCA-6th Sem (Section- A & B)	
Subject: Introduction to .NET (BCA-308)	
Day 1	Introduction
Day 2	The Framework of .Net
Day 3	Building blocks of .Net Platform (the CLR, CTS and CLS)
Day 4	Building blocks of .Net Platform (the CLR, CTS and CLS)
Day 5	Features of .Net
Day 6	Features of .Net
Day 7	Revision
Day 8	Deploying the .Net Runtime
Day 9	Deploying the .Net Runtime
Day 10	Architecture of .Net platform
Day 11	Architecture of .Net platform
Day 12	Introduction to namespaces & type distinction
Day 13	Introduction to namespaces & type distinction
Day 14	Revision
Day 15	Doubt Class
Day 16	Types & Object in .Net
Day 17	Types & Object in .Net
Day 18	The evolution of Web development
Day 19	The evolution of Web development
Day 20	Revision
Day 21	Doubt Class
Day 22	Test
Day 23	Class Libraries in .Net
Day 24	Class Libraries in .Net
Day 25	Introduction to Assemblies & Manifest in .Net,
Day 26	Introduction to Assemblies & Manifest in .Net,
Day 27	Revision
Day 28	Metadata & attributes
Day 29	Metadata & attributes
Day 30	Introduction to C#
Day 31	Characteristics of C#
Day 32	Data types: Value types, reference types
Day 33	Data types: Value types, reference types
Day 34	Revision
Day 35	Doubt Class
Day 36	default value
Day 37	constants, variables
Day 38	constants, variables
Day 39	scope of variables
Day 40	scope of variables
Day 41	boxing and unboxing
Day 42	Operators and expressions: Arithmetic, relational
Day 43	logical, bitwise
Day 44	special operators
Day 45	Revision

Day 46	Doubt Class
Day 47	evolution of expressions
Day 48	evolution of expressions
Day 49	operator precedence & associativity
Day 50	operator precedence & associativity
Day 51	Control constructs in C#:
Day 52	Control constructs in C#:
Day 53	Decision making
Day 54	Decision making, loops
Day 55	Revision
Day 56	Classes & methods: Class, methods
Day 57	Classes & methods: Class, methods
Day 58	constructors, destructors
Day 59	constructors, destructors
Day 60	constructors, destructors
Day 61	overloading of operators & functions
Day 62	overloading of operators & functions
Day 63	Revision
Day 64	Doubt Class
Day 65	Inheritance & polymorphism: visibility control
Day 66	Inheritance & polymorphism: visibility control
Day 67	overriding
Day 68	overriding
Day 69	abstract class & methods
Day 70	abstract class & methods
Day 71	Revision
Day 72	Sealed classes & methods
Day 73	Sealed classes & methods
Day 74	interfaces
Day 75	interfaces
Day 76	Advanced features of C#: Exception handling & error handling
Day 77	Advanced features of C#: Exception handling & error handling
Day 78	Advanced features of C#: Exception handling & error handling
Day 79	automatic memory management
Day 80	automatic memory management
Day 81	Input and output (Directories, Files, and streams).
Day 82	Input and output (Directories, Files, and streams).
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

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LESSON PLAN FOR THE SESSION 2022-23

Name of the professor: Ms. Kritika Vaid and Ms. Kamiya Chugh	
Class And Section: BCA 6th Sem (Section-A and Section -B)	
Subject: Artificial Intelligence(BCA-308)	
Day 1	Introduction to AI
Day 2	Introduction to AI
Day 3	Importance of AI
Day 4	AI and its related field
Day 5	AI and its related field
Day 6	AI techniques
Day 7	AI techniques
Day 8	Applications of AI
Day 9	Programming Languages
Day 10	Test
Day 11	Problems, problem space and search
Day 12	Defining the problem as a state space search
Day 13	Production system and its characteristics
Day 14	Production system and its characteristics
Day 15	Issues in the design of the search problem
Day 16	Issues in the design of the search problem
Day 17	Test
Day 18	Heuristic search techniques
Day 19	Heuristic search techniques
Day 20	Generate and test
Day 21	Generate and test
Day 22	Hill climbing
Day 23	Hill climbing
Day 24	Best first search technique
Day 25	Best first search technique
Day 26	Problem reduction
Day 27	Problem reduction
Day 28	Constraint satisfaction
Day 29	Constraint satisfaction
Day 30	Test
Day 31	Definition and importance of knowledge
Day 32	Knowledge representation
Day 33	Various approaches used in knowledge representation
Day 34	Various approaches used in knowledge representation
Day 35	Issues in knowledge representation
Day 36	Issues in knowledge representation
Day 37	Test
Day 38	Using Predicate Logic

Day 39	Representing Simple Facts in logic
Day 40	Representing Simple Facts in logic
Day 41	Representing instances and is_a relationship
Day 42	Representing instances and is_a relationship
Day 43	Computable function and predicate
Day 44	Computable function and predicate
Day 45	Test
Day 46	Introduction to Natural Language Processing
Day 47	Introduction to Natural Language Processing
Day 48	Syntactic processing
Day 49	Syntactic processing
Day 50	Semantic processing
Day 51	Semantic processing
Day 52	Discourse and pragmatic processing.
Day 53	Discourse and pragmatic processing.
Day 54	Applications Of NLP
Day 55	Test
Day 56	Introduction learning
Day 57	Learning system model
Day 58	Rote Learning
Day 59	Learning by taking advice
Day 60	Learning in problem solving
Day 61	Learning in problem solving
Day 62	Learning from example-induction
Day 63	Learning from example-induction
Day 64	Explanation based learning
Day 65	Explanation based learning
Day 66	Test
Day 67	Introduction to Expert System
Day 68	Introduction to Expert System
Day 69	Representing using domain specific knowledge
Day 70	Representing using domain specific knowledge
Day 71	Expert system shells

Day 72	Expert system shells
Day 73	Test
Day 74	Revision of Unit - 1
Day 75	Revision of Unit - 1
Day 76	Test of Unit-1
Day 77	Revision of Unit - 2
Day 78	Revision of Unit - 2
Day 79	Test of Unit-2
Day 80	Revision of Unit - 3
Day 81	Revision of Unit - 3
Day 82	Test of Unit-3
Day 83	Revision of Unit - 4
Day 84	Revision of Unit - 4
Day 85	Test of Unit-4
Day 86	Revision of Previous Year Question Paper
Day 87	Revision of Previous Year Question Paper
Day 88	Revision of Previous Year Question Paper
Day 89	Revision of Previous Year Question Paper
Day 90	Revision

*As per number of periods /week