Lesson Plan for the Semester Starting: 3February, 2025

Data and File Structure

BCA 2nd Sem

Name of Institute: DAV Institute of Management

Name of Teacher with designation: Ms.Pooja Gour(Assistant professor)

Department: BCA

Class Time: 1 Hour

Month	Class	Date of Class taken	Topic/Chapter Covered	Academic activity	Test/Assignment
Feb	**1**		Introduction of Data Structures		
	2		Introduction of arrays		
	3		array insertion, Deletion		
	4		Linear Search		
	5		Binary Search		
	6		, 2D arrays, Sparse Matrix, tridiagonal matrix		
	7		Practice of Arrays	Practical Implementation	Assignment of Arrays
	8		Introduction of Stack Push, Pop operation on Stack		
	9		Infix,postfix,prefix notations and conversion		
	10		Evaluation of Postfix expression		
	11		C implementation of Stack	Practical Implementation	Assignment of stacks
	12		Introduction of queses, insertion, deletion operation in simple queue	Practical Implementation	
March	13		Circular queues insertion, deletion operation in simple queue	Practical Implementation	
	14		Dequeues and Priority Queues	Practical Implementation	
	15		Practice of Queses and Revision	Practical Implementation	Assignment of Queues
	16		Linked list (singular) insertion	Practical Implementation	Assignment of Linked list
	17		Linked list (singular) deletion	Practical Implementation	
	18		Sorted linked list	Practical Implementation	
	19		Doubly Linked list insertion, Deletion	Practical Implementation	

	20		Polynominal addition and subtraction using header linked list		
	21		Circular linked list insertion and deletion	Practical Implementation	
	22		Threaded list, garbage collection and applications of linked list, Linked represention of Stack and Quesues.		
April	23		Practice of linked list	Practical Implementation	
	24		Introduction of Binary Tree		Assignment of trees
	25		Sequential representation of binary tree.		
	26		Binary Search tree Insertion and Seraching and Traversing	Practice Questions	
	27		Deletion in Binary Search Tree.	Practice Questions	
	28		Preorder and Inorder traversal Using stacks		
	29		Postorder traversal using stacks	Practice Questions	
	30		Revision and Doubts		
	31		Revision and Doubts	Practice Questions	
	32		Introduction of Graphs, Sequential Representation of Graph		Assignment of graphs
	33		Traversing of graph(Breadth First search and Depth First Search)		
	34		Linked Representation of Graphs		
May	35		Revision and Doubts		
	36		Sorting Techniques	Practical Implementation	
	37		Algorithm Complexity,Time space Complexity and Big O notations		
	38		Revision		
	39		Revision		
	40		Revision		
	41		Revison		

Lesson Plan for the Semester Starting: 3rdFebruary 2025

Name of the subject: Tourism & Hospitality: An introduction

Name of the Institution: DAV Institute of Management

Name of the teacher with designation: Dr. Parul Nagi, Asst. Professor

Department: BCA(NEP) 2nd SEM

Class Time: 1Hr.

Month	Class	Date of Class taken	Topic/Chapter Covered	Academic Activity	Test/Assignment	Deviation if any
			UNIT 1			
	1		Meaning of Tourism	Lecture &Discussion		
	2		The Tourism Industry	Lecture & Discussion		
	3		Significance of Tourism	Lecture & Discussion		
	4		The Tourism System	Discussion		
	5		A's of Tourism	Case Study		
			UNIT 2			
	6		Purpose of Tourism (Domestic & International)	Discussion		
	7		Types of Tourism (Domestic & International)	Group Discussion		
	8		Travel Motivation	Lecture & Discussion		
	9		Leisure or Holiday	Lecture & Discussion		
	10		VFR	Presentation		
	11		Cultural Tourism	Group Discussion		
	12		Spiritual Tourism	Lecture &		

				Discussion		
	13		Religious Tourism	Group Discussion		
	14		Adventure Tourism	Lecture &Discussion		
	15		Sports Tourism	Lecture & Discussion		
	16		Other form of Tourism	Lecture & Discussion		
			UNIT 3			
	17		The Meaning of Hospitality	Lecture & Discussion		
	18		Types of Hotels	Lecture & Discussion		
	19		Meal Plans	Discussion		
	20		Various Departments in Hotel	Discussion		
	21		Food Outlets in Hospitality Business	Lecture & Discussion		
	22		Food Outlets in Hospitality Business	Lecture & Discussion		
			UNIT 4			
	23		Tourism & Hospitality Education in India-Introduction	Lecture & Discussion		
	24		Ministry of Tourism, Government of India(Tasks & Functions)	Lecture & Discussion		
	25		Organization and Association -UNWTO	Lecture & Discussion		
	26		IATA	Lecture & Discussion		
	27		FHRAI	Lecture & Discussion		

	28		IATO(5)	Lecture & Discussion		
	29		Taj Group of Hotels	Lecture & Discussion		
	30		Lalit Group of Hotels	Lecture & Discussion		
	31		ITC Hotels	Lecture & Discussion		
	32		Oberoi Hotels	Lecture & Discussion		
	33		Service Provider- Intro Make my trip	Lecture & Discussion		
	34		Yatra-Introduction	Lecture & Discussion		
	35		Balmer-introduction	Lecture & Discussion		
	36		Lawrie-Introduction	Lecture & Discussion		
	37		Revision	Revision		
	38		Revision	Revision		
	39		Revision	Revision		
	40		Revision	Revision		

Lesson Plan for the Semester Starting:5th Feb' 2025

Name of the subject: Travel & Tourism Management

Subject Code:24 HTMX02MD01

Name of the Institution: DAV Institute of Management

Name of the teacher with designation: Dr. Dhrity Ahuja

Department: BBA (II)

Class Time: 1Hr. (3 Hrs/Week)

Month	Class	Date of Class taken	Topic/Chapter Covered	Academic Activity	Test/Assignment	Deviation if any
February	1	3rd Feb	Overview of Syllabus	Lecture		
	2	4th Feb	Meaning of Tourism	Lecture &ppt		
	3	5th Feb	Objectives of Tourism	Lecture &ppt		
	4	6th Feb	Concept of Tourism Industry	Lecture &ppt		
	5	10th Feb	Origin of Tourism	Lecture &ppt		
	6	11th Feb	Significance of Tourism	Lecture &ppt	Assignment 1	
	7	17th Feb	Tourism System	Lecture &ppt		
	8	18th Feb	A's of Tourism	Lecture &ppt		
	9	20th Feb	A's of Tourism (Contd.)	Lecture &ppt		
	10	24th Feb	Concept of Ecotourism & Excursionist	Lecture &ppt		
	11	25th Feb	Benefits of Tourism	Lecture &ppt		
	12	26th Feb	Purpose of Tourism	Lecture &ppt		
	13	3rd March	General types of tourism	Lecture &ppt		
	14	4th March	Travel Motivations	Lecture &ppt		
	15	5th March	Leisure or Holidays	Lecture &ppt		
	16	6th March	VFR	Lecture &ppt		
	17	17th March	Cultural tourism	Lecture &ppt	Assignment	
	18	18th march	Spiritual tourism	Lecture &ppt		

	19	19th March	Religious tourism	Lecture &ppt		
	20	20th March	Adventure tourism	Lecture &ppt	Assignment	
	21	24th March	Sports tourism	Lecture &ppt		
	22	25th March	Other forms of tourism	Lecture &ppt		
	23	26th March	Role of tourism	Lecture &ppt		
	24	27th March	Concept of Hospitality	Lecture &ppt		
	25	1st April	Hospitality & Tourism	Lecture &ppt		
	26	2nd April	Types of Hotels	Lecture &ppt		
	27	3rd April	Types of Hotels (contd.)	Lecture &ppt		
	28	7th April	Meal Plans in hotels	Lecture &ppt		
	29	8th April	Various departments in hotels	Lecture &ppt		
	30	9th April	Departments (contd.)	Lecture &ppt		
	31	15th April	Food outlets in hospitality business	Lecture &ppt		
	32	16th April	Assignment discussion	Lecture &ppt		
	33	17th April	Tourism education in India	Lecture &ppt		
	34	21st April	Hospitality education in India	Lecture &ppt		
	35	22nd April	Ministry of Tourism-tasks	Lecture &ppt		
	36	23rd April	Ministry of Tourism-functions	Lecture &ppt		
	37	24th April	Contd.	Lecture &ppt		
	38	28th April	UNWTO	Lecture &ppt		

	39	1st May	IATA	Lecture &ppt		
	40	5th May	FHRAI	Lecture &ppt		
	41	6th May	Assignment Discussion	Lecture &ppt		
	42	7th May	IATO	Lecture &ppt		
	43	8th May	Taj Group of Hotels	Lecture &ppt		
	44	13th May	Lalit Group of Hotels	Lecture &ppt		
	45	14th May	ITC Hotels	Lecture &ppt		
	46	15th May	Oberoi Hotels	Lecture &ppt		
	47	19th May	Make my Trip	Lecture &ppt		
	48	20th May	Yatra.com	Lecture &ppt		
	49	21st May	Balmer&Lawrie	Lecture &ppt		
	50	22nd May	Important question discussion	Lecture &ppt		

Lesson Plan
Course – BCA
Semester:2nd
Subject:Corporate Leadership
Starting Date:1st February 2025

Month	Class	Date of Class taken	Topic	Test/Assignment
February	1		Concept of Leadership	
	2		Leadership vs Management	
	3		Trait Theory	
	4		Behavioural Theory -Ohio State studies,Michigan Studies,	
	5		Leadership Styles	
	6		Contingency Approcah--Fiedler's Contingency theory,Situational Leadership theory	
	7		Contingency Approcah--Path Goal Theory,Leader Member Exchange Theory	
	8		Charcteristics of Leader	
	9		InteractiveFramework for Analyzing Leadership	Assignment No-1
	10		Leader as an individual -Personality Traits	
	11		Leader as an individual --Essence of Individual Leadership	
	12		Types of Power	
	13		Influence	
March	1		Values in Leaderhip	
	2		Role of Values in Leaderhip	
	3		Emotional Leadership	
	4		Spectrum of Leadership Behaviours	
	5		Impact of Leadership Behaviours	
	6		Understanding Courageous Leadership	
	7		Role of Moral Leadership	
	8		Focus on Leaders	Assignment No-2
	9		Motivation Content Theory	
	10		Motivation Process Thory	
	11		Empowerment	
	12		Leadership Diversity	
	13		Leadership Diversity	
April	1		Leader as Champion	
	2		Communication	
	3		Leading Teams	

	4		Leading Teams	
	5		Leader as relationship builder	Assignmnet No-3
	6		Creating Vision and Strategic Decision	
	7		Process of creating vision and strategic decision	
	8		Define Culture & values	
	9		Significance of Shaping Cuture& Values	
	10		Defination of Learning Organization,Charateristics	
May	1		Steps of Leading Change in Organization,Key Challenges of Managing Change	
	2		Relationship between Corporate Leadership & Change Mangement,Steps of Sustaining Change	
	3		Revision of Unit-1	
	4		Revision of Unit-1	
	5		Revision of Unit-2	
	6		Revision of Unit-2	
	7		Revision of Unit-3	
	8		Revision of Unit-3	
	9		Revision of Unit-4	
	10		Revision of Unit-4	

DAV INSTITUTE OF MANAGEMENT
LESSON PLAN FOR THE SEMESTER STARTING : 2nd FEB. 2025

DEPT.

NAME OF SUBJECT : हिन्दी भाषा संवर्धन

SUBJECT CODE :

CLASS TIME :1HR

FACULTY NAME & DESIGNATION : DEVDUTT - ASST.PROF.

Month	Class	Date	Topic/Chapter Covered	Aca. Act.	Test/Assign.	Deviation if any
	1		लिपि परिचय			
	2		लिपि का मानांकिकरण एवं प्रक्रिया			
	3		देवनागरी लिपि के गुण-दोष व मानकीकरण			
	4		मानक वर्णमाला के तत्व व लाभ एवं चुनौतियाँ			
	5		देवनागरी अंकमाला			
	6		अनुस्वार,अनुनासिक व विसर्ग			
	7		वर्तनी शुद्धि से अभिप्राय			
	8		वर्तनी अशुद्धियों के कारण			
	9		वर्तनी अशुद्धियों के निवारण के उपाय			
	10		सृजनात्मक साहित्य का अर्थ एवं स्वरूप			
	11		आलोचनात्मक साहित्य का अर्थ एवं स्वरूप			

	12		सृजनात्मक साहित्य का भाषा के विकास में योगदान			
	13		निबंध का अर्थ एवं स्वरूप			
	14		निबंध एवं उसके प्रकार			
	15		कहानी का स्वरूप एवं तत्व			
	16		कविता की परिभाषा एवं विशेषताएँ			
	17		कविता लेखन कौशल का विकास			
	18		अनुवाद का अर्थ एवं स्वरूप			
	19		21 वीं सदी में अनुवाद की उपयोगिता			
	20		अनुवादक के गुण और विस्तार			
	21		अनुवाद का अर्थ और प्रकार			
	22		अनुवाद में कम्प्युटर का योगदान			
	23		धारावाहिकों का हिन्दी रूपांतरण और प्रभाव			
	24		बैंकिंग साहित्य में हिन्दी प्रयोग और अनुवाद की आवश्यकता			
	25		डुबिंग के क्षेत्र में अनुवाद की प्रक्रिया			
	26		लिप्यंतरण की परिभाषा एवं स्वरूप			
	27		हिन्दी साहित्य की रचनाओं का अनुवाद			

	28		अनुवाद के क्षेत्रों में रोजगार के अवसर			
	29		शोध-पत्र प्रस्तुतीकरण अर्थ एवं नियम			
	30		शोध-पत्र लेखन व प्रस्तुतीकरण की प्रक्रिया			
	31		पत्र-प्रस्तुतीकरण और नवीन शोधात्मक वैचारिकता			
	32		पत्र-प्रस्तुतीकरण में शोध-निर्देशक की भूमिका			
	33		शोध-पत्र प्रस्तोता के मनोबल वृद्धि के कारक			
	34		पत्र प्रस्तुतीकरण में वक्तृत्व कला के विकास के विभिन्न पहलू			
	35		शोध अभिरुचि का महत्व व प्रक्रिया			

**** Note:2 Lectures per Week***

Lesson Plan for the Semester Starting: 3rd February, 2025

Digital Design

BCA 2nd Sem

Name of Institute: DAV Institute of Management

Name of Teacher with designation: Ms.Poonam (Assistant professor)

Department: BCA

Class Time: 1 Hour

Month	Class	Date of Class taken	Topic/Chapter Covered	Academic activity	Test/Assignment	Deviation if any
Feb	**1**		Digital systems, Digital Signals, Digital Waveforms			
	2		Digital Computer & Digital Integrated Circuits			
	3		Binary, Octal Number System			
	4		Decimal & Hexadecimal Number System			
	5		Number base Conversions			
	6		Complement, Signed Binary numbers and Binary codes			
	7		Error Detection & Correction Codes			
	8		Boolean Algebra Axioms Definition			
	9		Boolean Algebra theorems & Properties			
	10		Boolean Functions			
	11		Sop & Pos forms			
	12		Canonical Standard forms			

March	13		Digital Logic Basic gates- AND, OR, NOT			
	14		Universal NAND, NOR and XOR, XNOR			
	15		Universal Gates and their Implementation			
	16		K Map Method Simplification			
	17		Algebra Postulates and Canonical Forms			
	18		Prime Implicants Types			
	19		Determination and Selection of Prime implicants			
	20		Don’t Care Condition			
	21		NAND & NOR implementation			
	22		Combinational Circuits Introduction			
April	23		Characteristics & Designing Principles of Combinational circuits			
	24		Binary Adder- Half Adder			
	25		Full Adder			
	26		Half Subtractor			
	27		Full Subtractor			
	28		Parallel Binary Adder-Subtractor			
	29		Binary Multiplier			
	30		Comparator			
	31		Multiplexer			
	32		De-Multiplexer			
	33		Encoder			
	34		Decoder			

May	35		Sequential Circuits-Latches			
	36		Flip Flops Introduction			
	37		SR Flip Flop			
	38		JK Flip Flop			
	39		D & T Flip Flop			
	40		Master Slave Flip Flop			
	41		Shift Registers-SISO, SIPO			
	42		PISO, PIPO			
	43		Applications of Registers			
	44		Asynchronous Counters			
	45		Synchronous Counters			
	46		Modulo N Counter			
	47		Up-Down Counter			
	48		Revision			
	49		Revision			
	50		Revision			

Lesson Plan for the Semester Starting: 15th Jan 2024

Name of the Subject: WEB DESGNING

Subject Code: BCA-206

Name of the institution: DAV Institute of Management

Name of the teacher with designation: Ms. Poonam (Assistant Professor)

Department: BCA

Class Time: 1 Hr

Month	Class	Date of Class Taken	Topic /Chapter Covered	Academic Activity	Test/ Assignment	Deviation (if any)
Jan	1		Introduction to Internet	Lecture		
	2		World wide web detail	Lecture		
	3		History of internet and www	Lecture		
	4		Web browser	Lecture		
	5		Web Server	Lecture		
	6		Protocols	Lecture		
	7		TCP/IP services	Lecture		
	8		TCP/IP services	Lecture		
	9		OSI Model	Lab		
	10		URL details	Lecture		
	11		Search engines and tools	Lecture		

	12		**Hosting the site**	**Lab**		
	13		**ISP**	**Lecture**	**Assignment**	
Feb	**14**		**Web terminologies**	**Lecture**		
	15		**Web site planning phases**	**Lecture**		
	16		**Designing web site**	**Lecture**		
	17		**Steps for developing the site**	**Lecture**		
	18		**how to choose contents**	**Lecture**		
	19		**detail of home page**	**Lecture**		
	20		**Domain names**	**Lecture**		
	21		**Front page views**	**Lecture**		
	22		**Picture editing**	**Lab**	**Assignment**	
	23		**Links**	**Lab**		
	24		**HTML introduction**	**Lecture**		
	25		**Features of HTML**	**Lecture**		
	26		**HTML command tags**	**Lab**		
	27		**HTML tags**	**Lab**		
	28		**HTML tags**	**Lab**		
	29		**HTML tags**	**Lab**		
March	**30**		**HTML linking**	**Lab**		
	31		**Image tag**	**Lab**		
	32		**Ordered List**	**Lab**		

	33		**Unordered List**	**Lab**		
	34		**Tables**	**Lab**		
	35		**Tables**	**Lab**		
	36		**Frames**	**Lab**		
	37		**Frames**	**Lab**		
	38		**Frames**	**Lab**		
	39		**Forms(Buttons)**	**Lab**		
	40		**HTML website**	**Lab**		
	41		**HTML website**	**Lab**		
April	**42**		**HTML website**	**Lab**		
	43		**DHTML**	**Lecture**		
	44		**Features of DHTML**	**Lecture**	**Assignment**	
	45		**DHTML Tags, DIV tags**	**Lecture**		
	46		**DHTML Tags**	**Lab**		
	47		**DHTML Tags**	**Lab**		
	48		**CSSP**	**Lecture**		
	49		**JSSS**	**Lecture**		
	50		**Revision and Doubts**	**Lecture**		
	51		**Revision and Doubts**	**Lab**		
	52		**Revision and Doubts**	**Lecture**		

Lesson Plan for the Semester Starting: 15th Jan 2024

Name of the Subject: WEB DESGNING

Subject Code: BCA-206

Name of the institution: DAV Institute of Management

Name of the teacher with designation: Ms. Deepika Kamboj (Assistant Professor)

Department: BBA

Class Time: 1 Hr

Month	Class	Date of Class Taken	Topic /Chapter Covered	Academic Activity	Test/ Assignment	Deviation (if any)
Jan	1		Introduction to Internet	Lecture		
	2		World wide web detail	Lecture		
	3		History of internet and www	Lecture		
	4		Web browser	Lecture		
	5		Web Server	Lecture		
	6		Protocols	Lecture		
	7		TCP/IP services	Lecture		
	8		TCP/IP services	Lecture		
	9		OSI Model	Lab		
	10		URL details	Lecture		
	11		Search engines and tools	Lecture		
	12		Hosting the site	Lab		
	13		ISP	Lecture	Assignment	
Feb	14		Web terminologies	Lecture		
	15		Web site planning phases	Lecture		
	16		Designing web site	Lecture		
	17		Steps for developing the site	Lecture		
	18		how to choose contents	Lecture		
	19		detail of home page	Lecture		
	20		Domain names	Lecture		

	21		Front page views	Lecture		
	22		Picture editing	Lecture	Assignment	
	23		Links	Lecture		
	24		HTML introduction	Lecture		
	25		Features of HTML	Lecture		
	26		HTML command tags	Lecture		
	27		HTML tags	Lecture		
	28		HTML tags	Lecture		
	29		HTML tags	Lecture		
March	30		HTML linking	Lecture		
	31		Image tag	Lecture		
	32		Listing	Lecture		
	33		Listing	Lecture		
	34		Tables	Lecture		
	35		Tables	Lecture		
	36		Frames	Lecture		
	37		Frames	Lecture		
	38		Frames	Lecture		
	39		Forms(Buttons)	Lecture		
	40		HTML website	Lecture		
	41		HTML website	Lecture		
April	42		HTML website	Lecture		
	43		DHTML	Lecture		
	44		Features of DHTML	Lecture	Assignment	
	45		DHTML Tags, DIV tags	Lecture		
	46		DHTML Tags	Lecture		
	47		DHTML Tags	Lecture		
	48		CSSP	Lecture		
	49		JSSS	Lecture		
	50		Revision and Doubts	Lecture		
	51		Revision and Doubts	Lecture		
	52		Revision and Doubts	Lecture		

Lesson Plan for the Semester Starting: 15 January, 2025

Object Oriented Programming using C++-

BCA 4thSem

Paper Code: BCA-208

Name of Institute: DAV Institute of Management

Name of Teacher with designation: Ms. Pooja Gour (Assistant professor)

Department: BCA

Class Time: 1 Hour

Month	Class	Date of Class taken	Topic/Chapter Covered	Academic activity	Test/Assignment
Jan	**1**	**15/01/25**	Introduction to computer languages, Generations of languages	Theory	
	2	16/01/25	**Unit-I :** Introduction to object orientedprogramming ,Difference between Procedural and Object oriented languages	theory	
	3	17/01/25	Characteristics of OOP: Objects, classes, Encapsulation, Data Abstraction, Inheritance, Polymorphism, Dynamic Binding, and Message Passing.	Theory	
	4	20/01/25	Structure of C++ program: Syntax,Data-types, Variables, Static Variables,string,namespace,exception	Theory+Demo using LCD+LAB	
	5	21/01/25	Operators in C++,flow Control	Theory+Demo using LCD+LAB	Lab Assignment-I on the topic of conditional constructs and looping constructs(5 days)
	6	22/01/25	Arrays , pointer	Theory+Demo using LCD+LAB	
	7	23/01/25	Structure	Theory+Demo using LCD+LAB	
	8	24/01/25	Functions, Recursion	Theory+Demo using LCD+LAB	Lab Assignment-II on the topic of Arrays,Strings,Structure and Functions(Four days)
	9	27/01/25	Revision of Unit-I	Discussion	Assignment-I: Prepare answers to question based on topics of UNIT-I Time given: One week
	10	28/01/25	**Unit-II**: Abstracting mechanism**:** Classes, Private,	Theory+Demo using LCD+LAB	

			Public and Protected		
	11	29/01/25	Constructor and Destructor	Theory+Demo using LCD+LAB	
	12	31/01/25	Member functions,static members ,references	Theory+Demo using LCD+LAB	
Feb	13		Memory Management: new,delete,objectcopying,copyconstructor,assignment operator	Theory+Demo using LCD+LAB	Lab assignment-III based on the topics:classes and objects,memberfunctions,constructor and destructor,copy constructor(5 days)
	14		Assignment operator,this input/output	Theory+Demo using LCD+LAB	
	15		Revision of Unit-II	Theory+Demo using LCD+LAB	
	16		**Unit III:** Inheritance and Polymorphism: Derived class and Base class,Different types of inheritance	Theory+Demo using LCD+LAB	
	17		Overriding member function,Abstractclass,Public and private inheritance	Theory	
	18		Ambigity in multiple inheritance,Virtual function	Theory+Demo using LCD+LAB	Lab assignment IV based on topics: Inheritance(4 days)
	19		friend function ,static function	Theory+Demo using LCD+LAB	Assignment II: Prepare answers to questions based on topics of UNIT-III Time given: Four days
	20		Revision of Unit-III	Theory+Demo using LCD+LAB	
	21		**Unit-IV:** Exception Handling: Exception and derived class	Theory+Demo using LCD+LAB	Lab assignment V based on topics:Friendfunction,operatoroverloading,memory management(5 days)
March & April	22		Function exception declaration,unexpected exception	Theory+Demo using LCD+LAB	
	23		Exception when handling exception,resource capture and relaease	Theory+Demo using LCD+LAB	
	24		Template and Standard Template Library: Template classes,declaration	Theory+Demo using LCD+LAB	Assignment III: Prepare answers to questions based

					on UNIT-III Time given: Four days
	25		Template functions,namespace	Theory+Demo using LCD+LAB	
	26		String,iterators, Hashes,iostreams and other types	Theory+Demo using LCD+LAB	Lab Assignment Vi:Programs based on topics of Unit IV
	27		Revision of Unit-IV	Theory+Demo using LCD+LAB	Assignment IV: Prepare answers to questions based on unit IV Time given:Three days
	28		Doubt clearing/Remedial/Meritorius classes		

Lesson Plan for the Semester Starting: 15th Jan 2024
Name of the Subject: ADVANCE DATA STRUCTURE
Subject Code: BCA-207
Name of the institution: DAV Institute of Management
Name of the teacher with designation: Dr. Anamika Bhargava (Associate Professor)
Department: MCA

Class Time: 1 Hr

Month	Class	Date of Class Taken	Topic /Chapter Covered	Academic Activity	Test/ Assignment	Deviation
Jan	**1**		Files: Physical storage devices and their characteristics, Attributes of a file.	Lecture		
	2		Records, Fixed and variable length records	Lecture		
	3		Primary and secondary keys, Classification of files	Lecture		
	4		File operations,	Lecture		
	5		Comparison of various types of files	Lecture		
	6		File organization:	Lecture		
	7		Serial, Sequential,	Lecture		
	8		Indexed-sequential, Random-access/Direct,	Lecture		
	9		Inverted, Multi-list file organization	Lecture		
	10		Hashing: Introduction	Lecture		
	11		Hashing functions and Collision resolution methods	Lecture	**Assignment -1**	
	12		Graphs:	Lecture		
Feb	**13**		Warshall's algorithm	Lecture		
	14		Warshall's algorithm for shortest path	Lecture		
		15	Dijkstra algorithm	Lecture		
		16	Dijkstra algorithm for shortest	Lecture		

			path,			
		17	Operations on graphs,	Lecture		
		18	Traversal of graph,	Lecture		
		19	Topological sorting.	Lecture		
		20	Topological sorting.	Lecture	**Assignment -2**	
		21	Tree:	Lecture		
		22	Header nodes, Threads,	Lecture		
		23	Binary search trees,	Lecture		
March		**24**	Searching, Insertion and deletion in a Binary search tree,	Lecture		
		25	AVL search trees	Lecture		
		26	Insertion and deletion in AVL search tree,	Lecture		
		27	m-way search tree,	Lecture		
		28	Searching, Insertion and deletion in an m-way search tree,	Lecture		
		29	B-trees,	Lecture		
		30	Searching, Insertion and deletion in a B-tree	Lecture		
		31	B+tree	Lecture		
		32	Huffman's algorithm,	Lecture		
		33	Huffman's algorithm,	Lecture		
		34	General trees	Lecture		
		35	Sorting:	Lecture	**Assignment -3**	
		36	Internal & external sorting,	Lecture		

		37	Radix sort	Lecture		
		38	Dry Run of Radix sort	Lecture		
	April	**39**	Quick sort	Lecture		
		40	Dry Run of Quick sort	Lecture		
		41	Heap sort	Lecture		
		42	Dry Run of Heap sort	Lecture		
		43	Merge sort,	Lecture		
		44	Dry Run of Merge sort	Lecture		
		45	Tournament sort,	Lecture		
		46	Dry Run of Tournament sort,	Lecture		
		47	Searching: Liner search	Lecture		
		48	Binary search,	Lecture		
		49	Compression between linear and binary Search	Lecture		
		50	Merging,	Lecture		
		51	Dry Run of Merging	Lecture		
	May	**52**	Comparison of various sorting and searching algorithms on the basis of their complexity	Lecture	**Assignment -4**	
		53- 54	Comparison of various sorting and searching algorithms on the basis of their complexity	Lecture		

Lesson Plan for the Semester Starting: 15th Jan 2024

Name of the Subject: Software Engineering

Subject Code: BCA-209

Name of the institution: DAV Institute of Management

Name of the teacher with designation: Ms. Preeti Goswami (Assistant Professor)

Department: BCA

Class Time: 1 Hr

Month	Class	Date of Class Taken	Topic /Chapter Covered	Academic Activity	Test/ Assignment	Deviation (if any)
Jan	1		Introduction to Software Engineering	Lecture		
	2		Software Processes	Lecture		
	3		SDLC	Lecture		
	4		Waterfall model, Prototype	Lecture		
	5		Evolutionary & Spiral Model	Lecture		
	6		Elicitation Techniques	Lecture		
	7		FAST QFD	Lecture		
	8		Nature of SRS	Lecture	Assignment	
	9		Data Dictionary	Lab		
	10		The Management Spectrum	Lecture		
	11		The People and the Problem	Lecture	Assignment	
	12		Project Management	Lab		
	13		Lines Of Code	Lecture	Assignment	
Feb	14		Function Point	Lecture		
	15		COCOMO Model	Lecture		
	16		Types Importance	Lecture		
	17		Advantage Disadvantage	Lecture		
	18		Need of COCOMO Model	Lecture		
	19		Coupling Types and Importance	Lecture		
	20		Cohesion	Lecture		
	21		Function Oriented	Lecture		
	22		Object Oriented	Lecture	Assignment	
	23		Test	Lecture		
	24		Software Measurement & Metrics Types	Lecture		

	25		Halstead Software Metrics	Lecture		
	26		Numerical	Lecture		
	27		Data Structure Metrics	Lecture		
	28		Test	Lecture		
	29		Programming Support Environment	Lecture		
March	30		Good Coding Style	Lecture		
	31		Relation Between Design and Implementation	Lecture		
	32		Procedural Design	Lecture		
	33		Implementation Issues	Lecture		
	34		Test	Lecture		
	35		Software Testing	Lecture		
	36		White Box Testing	Lecture		
	37		Types automated and Manual Testing	Lecture		
	38		Management Of Maintenance	Lecture		
	39		Process	Lecture		
	40		Reverse Engineering	Lecture		
	41		Software RE-Engineering	Lecture		
April	42		Configuration Management	Lecture		
	43		Documentation	Lecture		
	44		Revision	Lecture	Assignment	
	45		Revision	Lecture		
	46		Revision	Lecture		
	47		Revision	Lecture		
	48		Revision	Lecture		
	49		Revision	Lecture		
	50		Revision and Doubts	Lecture		
	51		Revision and Doubts	Lecture		
	52		Revision and Doubts	Lecture		

Lecture Plan for the semester starting (Jan 2025 –June 2025)

E.Commerce – BCA6th Sem

Name of the Institute: DAV Institute of Management,Faridabad

Name of teacher with designation: Dr.Ashima Tandon(Assistant Professor)

Department: MBA

Class Time: 1Hr.

Month	**Class**	**Date of Class taken**	**Topic/Chapter Covered**	**Academic Activity**	**Test/Assignment**	**Deviation if any**
UNIT 1	1		Intro to subject and Use& Overview of Electronic Commerce			
	2		Scope of Electronic Commerce,Traditional Commerce vs. Electronic Commerce			
	3		Impact of E-Commerce			
	4		Electronic Markets			
	5		Internet Commerce			
	6		E-Commerce in Perspective& Application of E-Commerce in Direct Marketing & Selling			
	7		Obstacles in adopting E-Commerce applications			
	8		Future of E-Commerce		Assignment 1	
	9		Doubt Class of Unit-1			
	10		Test		Test	
UNIT 2	11		Value Chains in Electronic Commerce			
	12		Supply Chain			
	13		Porter's Value Chain Model			
	14		Inter Organizational			

			Value Chains			
	15		Strategic Business Unit Chains			
	16		Industry Value Chains			
	17		Security Threats to E-Commerce: Security Overview			
	18		Computer Security Classification & Copyright and Intellectual Property			
	19		Security Policy and Integrated Security			
	20		Intellectual Property Threats & Client Threats			
	21		Electronic Commerce Threats		Assignment 2	
	22		Communication Channel Threats & Server Threats			
	23		Test		Test	
UNIT 3	24		Implementing security for E-Commerce: Protecting E-Commerce Assets			
	25		Protecting Intellectual Property & Protecting Client Computers			
	26		Protecting E-Commerce Channels			
	27		Insuring Transaction Integrity & Protecting the Commerce Server			
	28		Electronic Payment System: Electronic Cash			
	29		Electronic Wallets			
	30		Smart Card			
	31		Smart Card		Assignment 3	

	32		Credit and Charge Card			
	33		Revision and Doubt Class of Unit-3			
	34		Test		Test	
UNIT 4	35		B2B E-Commerce: Inter-Organizational Transitions			
	36		Credit Transaction Trade Cycle			
	37		Variety of transactions			
	38		Introduction to Electronic Data Interchange (EDI)			
	39		Benefits of EDI & EDI Technology			
	40		EDI Standards & EDI Communication			
	41		EDI Implementation		Assignment 4	
	42		EDI Agreement & EDI Security			
	43		EDI Agreement & EDI Security			
	44		Doubt Class of Unit 4			
	45		Test		Test	

NOTE: Classes might increase depending on students' doubts. The above schedule does not include the presentations which will be conducted time to time. The dates will be updated

The above schedule does not include the presentations which will be conducted time to time. The dates will be updated

Lecture Plan for the semester starting w.e.fJanuary 2025

Object Technologies & Programming using JAVA – BCA 6thSem Paper Code: BCA-307

Name of the Institute: DAV Institute of Management,Faridabad

Name of teacher with designation: Dr. Sarita Kaushik(Associate Professor)

Department: MCA

Month	Class	Topic/Chapter Covered	Academic activity	Test/Assignment
January	1	**UNIT-I:** **Object Oriented Methodology-1:** Paradigms of Programming Languages,Evolution of OO Methodology,Basic concepts of OO approaches	Theory	
	2	Benefits of OOPs,Introduction of common OO Language,Applications of OOPs	Theory	
	3	**Object Oriented Methodology-2 :**Classes and Objects,Abstraction and Encapsulation,Inheritace , Method overriding and Polymorphism	Theory+ Demo using LCD	
	4	**UNIT-II** **Java Language Basics: I**ntroduction to Java,Basic features of Java	Theory +Demo using LCD	
	5	Java Vertual Machine concepts,Primitive Data Types and variables	Theory+ Demo using LCD	1) Questions for Assignment related to UNIT-I 2) Lab Assignment for topics of Unit-I
	6	Java Operators,Expressions	Theory +Demo using LCD	
	7	Java Statements and Arrays	Theory +Demo using LCD	
	8	Arrays continued	Theory +Demo using LCD	
Feb	9	Arrays Continued	Theory +Demo using LCD	
	10	Object Oriented Concepts : Class and Object,classfundamentals,Creatingobjects,Assigning object reference variables	Theory +Demo using LCD	
	11	Introducing Methods,Static members and Static	Theory +Demo	

		methods	using LCD	
	12	Constructors,Overloading Constructors	Theory +Demo using LCD	
	13	This keyword,Using Objects as parameters,Argumentspassing,Returning objects	Theory +Demo using LCD	
	14	Method overloading,Garbagecollection,TheFinalize() method	Theory +Demo using LCD	
	15	Inheritance and Polymorphism :Inheritance basics,Accesscontrol,MultilevelInheritance,Method Overriding	Theory +Demo using LCD	
	16	Abstract classes,Polymorphism,Final keyword	Theory +Demo using LCD	
	17	Unit-III Packages: Defining Package,CLASSPATH,Packagenaming,Accessbility of Packages using Package Members	Theory +Demo using LCD	1) Questions for Assignment related to UNIT-II 2) Lab Assignment for topics of Unit-II
	18	Interfaces : Implementing interfaces,Interface and abstract classes,Extends and implements together	Theory +Demo using LCD	
	19-20	Interfaces continued..	Theory +Demo using LCD	
March	21-23	Exception Handling : Exception, Handling of exception,Using try-catch	Theory +Demo using LCD	
	24-27	Catching multiple exceptions,using finally clause	Theory +Demo using LCD	
	28-30	Types of Exception,ThrowingExceptions,Writing Exception subclasses	Theory +Demo using LCD	
	31	Unit-IV Multithreading: Introduction,The Main	Theory +Demo using LCD	

		thread,Thread Priorities		
	32	Synchronization in Java,Inter thread communication	Theory +Demo using LCD	
April	33	I/O in Java: I/O basics	Theory +Demo using LCD	
	34	Stream and Stram classes,The predefined Streams	Theory +Demo using LCD	
	35	Reading from and andWritingto ,Console Reading and Writing files	Theory +Demo using LCD	1) Questions for Assignment related to UNIT-III 2) Lab Assignment for topics of Unit-III
	36	The transient and volatile modifiers,Using Instance of Native methods	Theory +Demo using LCD	
	37	Strings and Characters: Fundamentals of characters and Strings	Theory +Demo using LCD	
	38	The String class,Stringoperations,Data conversion using Value Of() methods,	Theory +Demo using LCD	
	39	String Buffer class and methods.	Discussion	1) Questions for Assignment related to UNIT-IV 2) Lab Assignment for topics of Unit-IV
	40	Revision of UNIT-I	Discussion	
	41	Revision of UNIT-II	Discussion	
	42	Revision of UNIT-III	Discussion	
	43	Revision of Unit-IV	Discussion	

Lesson Plan for semester starting w.e.f 15th Jan, 2025

Name of the Subject- Object Technologies and Programming using Java

Subject code-307

Name of Institute: D. A. V Institute of Management

Name of teacher with designation: Deepika Kamboj, Assistant Professor

Department: BBA(G)

Class time:1 hr.

Month	S. No.	Date of class taken	Topic/ Chapter covered	Academic activity	Test/ Assignment	Deviation, if any
Jan	1		Paradigms of programming Languages, Evolution of OO Methodology, Basic concepts of OO Approach, Comparison of object oriented and procedure oriented approaches	Lecture, Group Discussion		
	2		Introduction to common OO Language, applications and benefits of OOPS	Lecture		
	3		Object oriented methodology 2, classes and objects, Abstraction, Encapsulation, Inheritance, Method Overriding and polymorphism	Lecture		
	4		Introduction to java, Java's History, Creation, basic features	Lecture		
	5		JVM and platform Independence, Byte code, difference between JVM, JDK and JRE	Lecture		

	6		Program structure of Java, First Java Program, Expression Statements	Lab, Demonstration		
	7		Java class Library, Basic Programs for practice	Lab		
	8		Java: Data Types, Variables and Operators, operator precedence	Lecture		
	9		Control Structure (Statements)in Java, Programs	Lab, Demonstration		
	10		Defining Classes & Methods-syntax and programs, Assigning object reference variables	Lecture		
	11		C++ vs Java	Lecture		
	12		Arrays, syntax in java, types and programs	Lecture		
	13		2 D and 3D Arrays	Lab, implementation	Assignment	
Feb	14		Revision unit 1	Test		
	15		Constructors-Importance, Why required, Types	Lecture		

	16		Constructor Overloading	Lecture, Demonstration		
	17		Constructors Lab Programs	Implementation-Lab		
	18		Keywords in Java-New operator, this reference, static methods, finalize()	Lecture		
	19		Final Keyword in Java	Lecture, Demonstration		
	20		Using objects as parameters, argument passing returning objects- Garbage collection	Lecture, Demonstration		
	21		Implementation-Keywords, Arrays and vectors	Lab Implementation		
	22		Revision unit 2	Test		
	23		Strings in Java- String class, String Handling using String class, string operations	Lecture, Demonstration		
	24		SrtingBuffer class and methods, Difference between StringBuffer and String class, value of method	Lecture, Demonstration		

	25		Strings programs	Lab, Implementation		
	26		Inheritance- Reusability, class inheritance, basis, access control- Syntax	Lecture		
	27		Types of Inheritance- single level, super keyword	Lecture, Demonstration	Assignment	
	28		Multilevel, hierarchal Inheritance	Lab Implementation		
	29		Abstract classes	Lecture		
	30		Concept of Interface, Multiple Inheritance	Lecture, Demonstration		
March	31		Polymorphism, Function Overloading, method overriding.	Lecture, Demonstration		
	32		Interfaces, function overloading, Dynamic Binding	Lab, Implementation		
	33		Exception handling, Concept, Types of Exceptions, Try- Catch keywords, catching multiple exceptions	Lecture, Demonstration		
	34		Finally, Throw and Throws keywords	Lecture, Demonstration		

	35		Creating own exceptions, writing exception subclass programs	Lab, Implementation		
	36		Packages, Defining and creating packages	Lecture, Demonstration		
	37		Package naming, accessibility of packages, classpath	Lecture, Demonstration		
	38		Using package members, Packages programs	Lab, Implementation	Assignment	
	39		Multithreading Programming: The Java Thread Model , The Main Thread	Lecture		
	40		Creating Multiple Thread- 2 methods, Programs	Lecture, Demonstration		
	41		Thread Priorities, synchronization, interthread communication	Lecture, Demonstration		
	42		Thread programs, Runnable Interface and Thread Class, Setting Priorities.	Lab, Implementation		
	43		Input/ Output in java, stream and stream classes, Predefined streams	Lecture		

	44		I/O classes, reading console input, writing console output	Lecture, Demonstration		
	45		Reading and writing on Files	Lab, Implementation		
	46		The transient and volatile modifiers	Lecture		
	47		Using instance of native methods.	Lecture		
	48		Doubts& Revision	Revision		
	49		Revision- previous year question papers	Revision		
	50		Doubts	Revision		

Note- 5 Lectures per week

Lecture Plan for the semester starting (Jan 2025 –June 2025)

Introduction to .NET – BCA6th Sem

Name of the Institute: DAV Institute of Management,Faridabad

Name of teacher with designation: Ms. Deepika Pahuja (Assistant Professor)

Department: BCA

Class Time: 1Hr.

Month	Class	Date of Class taken	Topic/Chapter Covered	Academic Activity	Test/Assignment	Deviation if any
	1		Introduction to .net, Why .Net came into existence			
	2		Building Blocks of .Net platform (CLR,CTS and CLS)			
	3		Features of .NET			
	4		Deploying .NET Runtime			
	5		Architecture of .net			
	6		(CLR, CLS, and CTS)			
	7		Demo Lab with input and output parameters			
	8		Evolution of Web Development			
	9		Class libraries in .NET, Introduction to Assemblies and Manifest in .NET			

	10		Metadata and attributes			
	11		Characteristicsof C#, Input and Output, Data types: Value type vs Reference Type, Default value, constants			
	12			Unit-1 Test		
	13		Variables, Scope of Variables, Boxing and Unboxing			
	14		Operators and expressions, Operator precedence and associativity			
	15		If, if-else, else-if ladder in C#			
	16		Switch statement in C#			
	17		For, for each loop statement in C#			
	18		While, do-while in C#			
	19		Classes and Methods			
	20		Constructors, types of constructors			
	21		Destructors		Assignment 2	

	22		Operator overloading			
	23		Function Overloading			
	24				Test	
	25		Inheritance, Types of Inheritance			
	26		Overriding			
	27		Interfaces			
	28		Abstract Class and methods			
	29		Sealed Classes and methods		Assignment 3	
	30		Delegates and events			
	31		Exceptional Handling			
	32		Automatic Memory Management			
	33		Introduction to ADO.Net		Assignment 4	
	34		Demo Lab showing connectivity with SQL		Test	
	35		Revision			
	36		Revision			
	37		Revision			
	38		Revision			

	39		Revision			
	40		Doubts			
	41		Previous year Question Paper		Assignment 4	
	42		Practical file Doubts			
	43		Revision			
	44		Revision			
	45		Revision			

Lesson Plan for the Semester starting w.e.f 15 January, 2025

Artificial Intelligence, BCA 6th Sem

Name of Institute: DAV Institute of Management

Name of Teacher with designation: Ms.Pooja Goyal(Assistant professor)

Department: BCA

Class Time: 1 Hour

Month	Hours	Date	Topic/Chapter Covered	Academic activity	Test/Assignment	Deviation (if any)
Jan	Lecture 1		Turing Test and Criticism faced by Turing Test	Theory		
	Lecture 2		Intelligence and AI definition, Reasons behind vast development in AI, Importance of AI	theory		
	Lecture 3		Difference between Conventional and AI Problems,	Theory		
	Lecture 4		AI Applications	THEORY		
	Lecture 5-7		AI and its related field	THEORY		
	Lecture 8-9		Criteria for Success	THEORY		
	Lecture 10		Problem and AI Problem Characteristics	THEORY		
	Lecture 11-12		Problem Representation methods: State space representation	THEORY		
	Lecture 13		Problem Reduction	Discussion	Assignment-I:	

					Prepare answers to question based on topics of UNIT-I Time given: One week	
	Lecture 14-15		Unit -II Production System and its components	THEORY		
	Lecture 16-17		Issues in the design of the search problem	THEORY		
	Lecture 18		Hill Climbing Algorithm: Simple Hill Climbing	THEORY		
	Lecture 19-21		Steepest Ascent Hill Climbing Algorithm Problems in Hill Climbing Algorithm and their Solutions	THEORY		
	Lecture 22-23		Problems in Hill Climbing Algorithm and their Solutions, A* Algorithm	THEORY		
	Lecture 24		Constraint Satisfaction, Knowledge Representation: Definition, Importance of Knowledge	THEORY		
	Lecture 25		Level of knowledge, Types of Knowledge	THEORY		
	Lecture 26-28		Knowledge Representation Schemes : Semantic Net and its Reasoning Process	THEORY		
	Lecture 29		Frames and its Reasoning	THEORY	)	

			Process			
	Lecture 30-31		Script, Representing Simple facts in logic, Representing instances and is_a relationship, Computable function and predicate	THEORY	Assignment II: Prepare answers to questions based on topics of UNIT-III Time given: Four days	
	Lecture 32		Unit-3 : Natural Language Processing: Introduction, syntactic processing, Semantic Processing	THEORY		
	Lecture 33		Discourse and pragmatic processing, Learning by taking advice, Learning in Problem solving	THEORY		
	Lecture 34		Learning from example-induction, Explanation based learning	THEORY		
	Lecture 35		Unit-4: Expert system : introduction and characteristics of Expert System	THEORY		
	Lecture 36-37		Examples of Expert System, Applications of Expert System	THEORY	Assignment III: Prepare answers to questions based on UNIT-III Time given: Four days	
	Lecture 38		Benefits and Limitation of Expert System	THEORY		

	Lecture 39-40		Components of ExpertSystem : User interface, Knowledge Base and Inference Engine	THEORY		
	Lecture 41-42		Expert System Architecture	THEORY	Assignment IV: Prepare answers to questions based on unit IV Time given:Three days	
	Lecture 43-45		Expert System shells	THEORY		
	Lecture 46-50		Unit-4	Discussion		