Lesson Plan for the Semester Starting:16th January 2023

Name of theSubject: ADA

Subject Code: B.Sc.-203

Name of the institution: DAV Institute of Management

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

Department: BSc. H CS

Class Time: 1 Hr

Month	Class	Date of Class Taken	Topic /Chapter Covered	Academic Activity	Test/ Assignment	Deviation (if any)
Jan	1		Unit – 3: Tree Data structure Definition and its terminologies: Leaf node, Sibling, Degree of the Node, Degree of the Tree	Lecture		
	2		Level of the Node, Path, Binary Tree, Difference Between Binary Tree and Complete Binary Tree, Strictly Binary Tree, Complete Binary Tree, Extended Binary Tree	Lecture		
	3		Tree Traversal Algorithms: Preorder, Post order and In-order Algorithms with examples	Lecture		
	4		Memory Representation of Binary tree :Sequential Representation and Linked List Representation	Lecture		
	5		Binary Search Tree :Definition, Insertion and Searching Algorithms with example	Lecture		
	6		Binary Search Tree :Deletion Algorithm	Lecture		
	7		AVL Search Tree: Definition, Insertion and Searching Algorithms with examples	Lecture		

	8		AVL Search Tree: Deletion algorithm with example	Lecture		
	9		m-way search Tree: Definition and Insertion Algorithm	Lecture		
	10		m-way search tree Deletion with example	Lecture		
Feb	1		B tree Definition, Insertion and Searching Algorithm	Lecture		
	2		B Tree Deletion Algorithm with example	Lecture		
	3		B+ Tree and Huffman's Algorithm with example	Lecture		
	4		General Trees	Lecture		
	5		Unit 4 : Graph Data Structure: Definition, Tree Vs Graph, Importance of Graph	Lecture		
	6		Representation of Graph in memory	Lecture		
	7		Operations on Graph : Searching of a node and edge	Lecture		
	8		Insertion of a node and an edge	Lecture		
	9		Deletion of a node and an edge	Lecture		
	10		Warshells algorithm for shortest Path	Lecture		
	11		Dijkstra algorithm for shortest Path	Lecture		
March	1		Graph Traversal Algorithms :DFS and BFS	Lecture		
	2		Topological Sorting with example	Lecture		

	3		Minimum spanning Tree : Prim and Kruskal's Algorithms	Lecture		
	4		Graph Component Algorithm with example	Lecture		
	5		String Introduction :How to input and print string with various I/O Functions	Lecture/Lab activity		
	6		Practical Implementation of various string related functions	Lecture/Lab activity		
	7		String matching algorithm: KMP	Lecture		
	8		Boyer Moore Algorithm	Lecture		
	9		Unit- 1: Sorting and Types of Sorting, Complexity of an algorithm in terms of Time and Space Complexity	Lecture		
	10		Finding Complexity of various algorithms like sum of 'N; numbers, GCD	Lecture		
	11		Radix Sort: Introduction, algorithm and its complexity	Lecture		
	12		Practical Implementation of Radix Sort	Lecture/Lab activity		
	13		Quick Sort: Introduction, algorithm and its complexity	Lecture		
	14		Practical Implementation of Quick Sort	Lecture/Lab activity		
	15		Heap Sort: Introduction, algorithm and its complexity	Lecture		
April	1		Practical Implementation of Heap Sort	Lecture/Lab activity		
	2		Merge Sort: Introduction, algorithm and its complexity	Lecture		
	3		Practical Implementation of Merge Sort	Lecture/Lab activity		

	4		**Shell Sort: Introduction, algorithm and its complexity**	**Lecture**		
	5		**External sort**	**Lecture**		
	6		**Searching: Linear Search: Implementation**	**Lecture/Lab activity**		
	7		**Binary Search: implementation and its complexity**	**Lecture/Lab activity**		
	8		**Unit – 2: Dynamic Programming Introduction, its application in matrix multiplication**	**Lecture**		
	9		**Optical Binary Search Tree**	**Lecture**		
	10		**NP Complete Problem Introduction**	**Lecture**		
	11		**Examples of problems in the NP Class**	**Lecture**		
	12		**Complexity classes P and NP**	**Lecture**		
	13		**Parallel algorithms: Parallelism**	**Lecture**		
	14		**PARAM and other Models**	**Lecture**		
	15		**Finding maximum element in a list, Merging and Sorting**	**Lecture**		

Lesson Plan for the Semester Starting : 16th January 2023

Name of the subject: System Analysis & Design

Subject Code: Bsc 201, Semester : 2nd

Name of the Institution: DAV Institute of Management

Name of the teacher with designation: Dr. Shobha Bhatia

Department:B.Sc Hons. CS

Class Time: 1Hr.

Month	Class	Date of Class taken	Topic/Chapter Covered	Academic Activity	Test/Assignment	Deviation if any
	1		CONTEMPORARY SYSTEMS, SYSTEM			
	2		CHARACTERSTICS & TYPES OF SYSTEMS			
	3		SYSTEM COMPONENTS&ENVIORNMENT			
	4		CLASSIFICATION OF SYSTEMS			
	5		CONTD..CLASSIFICATION OF SYSTEM			
	6		INTRO TO CASE STUDIES			
	7		SYSTEM ANALYST, ROLE, QUALITIES			
	8				REVISION AND DOUBTS	
	9		SYSTEM PLANNING,DIMENSIONS			
	10		SYSTEMS FEASIBITY WITH EXAMPLE, PROCESS			
	11		PLANNING &EVALUATING ALTERNATIVES			
	12				TEST1	
	13		PROJECT MANAGEMENT &CONTROL			
	14		TYPES OF FEASIBILITY AND OBJECTIVES			
	15		COST BENEFIT ANALYSIS			
	16		SYSTEM ANALYSIS&TOOLS			
	17		PRIMARY V/S SECONDARY DATA			
	18		DATA COLLECTION & ANALYSIS			
	19		STRUCTURED ANALYSIS			
	20				REVISION & DOUBTS	
	21		SYSTEM DESIGN & ITS OBJECTIVES			

	22		**DESIGN APPROACHES**			
	23		**PHYSICAL & LOGICAL DESIGN**			
	24		**INPUT-OUTPUT,FORM DESIGN**			
	25		**FILE & DATABASE DESIGN**			
	26		**DBA &ITS ROLE**			
	27				**REVISION & DOUBTS**	
	28		**STRUCTURED DESIGN**			
	29		**MODULAR DESIGN & APPROACH**			
	30		**PROGRAM SPECIFICATION &CODING**			
	31		**REPORT DESIGN AND DESIGN ISSUES**			
	32		**SYSTEM TESTING & TESTING STRATEGIES**			
	33		**TYPES OF TESTING**			
	34		**TESTING PROCESS, ROLE OF SYSTEM TESTING ENGINEER**			
	35		**IMPLEMENTATION**			
	36		**USER TRAINING, STRUCTURED WALKTHROUGH**			
	37		**SYSTEM CONVERSIONS & METHODS**			
	38		**HARWARE SOFTWARE SELECTION**			
	39		**SYSTEM FOLLLOWUPS, SYSTEM MAINTENCE**			
	40		**SYSTEM RECOVERY, SYSTEMS BACKUPS**			
	41		**PREVIOUS YEARS QUESTION PAPER DISCUSSION**			
	42				**REVISION & DOUBTS**	
	43		**LAB 1**			
	44		**LAB2**			
	45		**LAB 3**			
	46		**LAB 4**			
	47		**LAB 5**			
	48		**LAB 6**			
	49					
	50					

*Above are the minimum number of classes to be scheduled for the subjects having classes 5 days per week. For subjects having classes 4 days per week and 3 days per week, the number of lectures are to be reduced i.e. 30 minimum number of classes for 3 days per week subject and 36 minimum number of classes for 4 days per week subject.

Lesson Plan For Semester Starting w.e.f16 jan2023

Name of the Subject:-Mathematices-2

Subject Code:- BSc . 202

Name of Institute:-DAV Institute of Management,FARIDABAD,

Name of teacher with designation:- Ms. Pooja Goyal, (ASSST. PROFESSOR)

Department:- BSc(hons) Comp. Sci

Class Time:- 1 Hr.

Month	Class	Date of class Taken	Topic/Chapter Covered	Academic activity	Test/Assignment	Deviation if any
Jan	1		Taylor Series(exponential)	Lecture		
	2		Taylor Series(exponential series)	Lecture		
	3		Macalurin test (exponential series)	Lecture		
	4		Macalurin test (xponential series)	Lecture		
	5		Taylor series(Logairthmetic)	Lecture		
	6		Macalurin test (logairthmetic series)	Lecture		
	7		Macalurin test (Sin x, Cos X)	Lecture		
	8		Real no. system as a Complete order field	Lecture		
	9		Real no. system as a Complete order field	Lecture		
	10		Neighbour hood	Lecture		
Feb	1		Neighbour hood practical question	Lecture		
	2		Open and closed set	Lecture		
	3		Open and closed set practical question	Lecture		
	4		Open and closed set theorem	Lecture		
	5		Limit point of a set	Lecture		
	6		Bolzwnoweierstrans theorem	Lecture		
	7		Concept of un and un++	Lecture		
	8		Concept of un and un++	Lecture		

	9		Dtest theorem	Lecture		
	10		D test practical question	Lecture		
	11				Test of D test	
	12		Rabees test	Lecture		
	13		Cauchy integral test	Lecture		
	14		Alternate series	Lecture		
	15		Absolute and conditional convergence	Lecture		
March	1		Absolute and conditional convergence	Lecture		
	2		Taylor series		Test	
	3		Rabees Test		Test	
	4		Macalurin test		Test	
	5		Previous year Question paper Discussion of unit 4 and unit 1			
	6		Mean value theorem	Lecture		
	7		Mean value theorem	Lecture		
	8		Monotonic sequence	Lecture		
	9		Monotonic sequence	Lecture		
	10		Sequence convergence	Lecture		
	11		Sequence convergence	Lecture		
	12		Cauchy sequence	Lecture		
April	1		Limit superior	Lecture		
	2		Limit inferior sequence	Lecture		
	3		Limit inferior sequence	Lecture		
	4		Infinite series basic	Lecture		
	5		Infinite series basic	Lecture		
	6		P test	Lecture		
	7		Geometric Series test	Lecture		
	8		Comparision test	Lecture		
	9		Limit continuity	Lecture		
	10		Limit continuity	Lecture		
	11		Sequential continuity	Lecture		
	12		Algebra of continuous function	Lecture		
	13		Continuity of complete function	Lecture		
	14		Intermediate value theorem	Lecture		
	15		Doubt Class	Lecture		

Lesson Plan For Semester Starting w.e.f16 jan2023

Name of the Subject:- **DIGITAL ELECTRONICS**

Subject Code:- BSc . 204

Name of Institute:-DAV Institute of Management, FARIDABAD,

Name of teacher with designation:- Ms. Jyoti Ahuja, (ASSST. PROFESSOR)

Department:- BSc(hons) Comp. Sci

Class Time:- 1 Hr.

Month	Class	Date of class Taken	Topic/Chapter Covered	Academic activity	Test/Assignment	Deviation if any
Jan	**1**		**Introduction to basic gates**			
	2		**Universal gates**			
	3		**Postulates of boolean algebra,Laws of Boolean algebra**			
	4		**Boolean operator & truth table**			
	5		**Boolean Expression, De-morgans theorem**			
	6		**Universal building blocks**			
	7		**Simplification of logic circuits: SOP,POS**			
	8		**Algebraic simplification**			
	9		**K-map minimization techniques using SOP**			
	10		**K-map minimization techniques using POS**			
Feb	**1**		**Q-M minimization**			
	2		**Q-M minimization**			
	3				**DOUTS OF UNIT-2**	
	4		**Introduction to basic gates**			
	5			**Lecture**		
	6		**INTRO TO LOGIC CIRCUITS**	**Lecture**		
	7		**INTRO toSequential circuits**	**Lecture**		
	8		**Combinational circuits**			
	9		**Half Adder**			
	10		**Full Adder**			
	11		**Half subtractor**			
	12		**Full subtractor**			

	13				Test of combinational circuits	
	14		Encoder			
	15		Decoder			
March	1		Multiplexer			
	2		demultiplexer		Douts of encoder,decoder	
	3		comparators			
	4		Intro to flip flop			
	5		S-R FLIP FLOP			
	6		STATE DIAGRAM AND CHARACTERSTIC EQUATION OF S-R			
	7		CLOCKED S-R FLIP FLOP			
	8		J-K FLIP FLOP			
	9		STATE DIAGRAM AND CHARACTERSTIC EQUATION			
	10		T-FLIP FLOP			
	11		MASTER SLAVE FLIP FLOP(RACE AROUND CONDITION)			
	12		MASTER SLAVE J-K FLIP FLOP			
April	1		INTRO TO COUNTER,RIPPLE OR SERIAL COUNTER			
	2		ASYNCHRONOUS DOWN COUNTER			
	3		UP-DOWN COUNTER			
	4		PARALLEL COUNTER(SYCHRONOUS COUNTER)			
	5		SECONDARY MEMORY	Lecture		
	6		TYPES OF SECONDARY MEMORY	Lecture		
	7		CACHE MEMORY,FLASH MEMORY	Lecture		
	8		DIODE AND TRANSISTOR CHARACTERSTICS	Lecture		
	9		LOGIC CIRCUITS(FAN IN, FAN OUT,PROPOGATION	Lecture		

			DELAY			
	10		**Doubt Class**	**Lecture**		
	11		**Doubt Class**	**Lecture**		
	12		**Doubt Class**	**Lecture**		
	13		**Doubt Class**	**Lecture**		
	14		**Doubt Class**	**Lecture**		
	15		**Doubt Class**	**Lecture**		

Lesson Plan for the Semester Starting: 16 January, 2023

Name of the subject: Data Base System

Subject Code: B.Sc-401

Name of the Institution: DAV Institute of Management

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

Department: B.SC.

Class Time: 1Hr.

Month	**Class**	**Date of Class taken**	**Topic/Chapter Covered**	**Academic Activity**	**Test/Assignment**	**Deviation if any**
January	1		Introduction to Subject			
	2		Introduction to Database			
	3		DBMS Components			
	4		Characteristics, objective & importance			
	5		File System Vs. DBMS, Advantage of DBMS			
	6		Disadvantage of DBMS, Data Security			
	7		Data Abstraction, Data Integration		Assignment	
	8		Data Consistency, Record & Files			
	9		DBA & its Role			
	10		Doubt Class			
	11		Test		Test	
	12		Architecture of Database System			
	13		3- Level			

			Architecture			
	14		Data Independence			
	15		Database Model			
	16		ER Model		Assignment	
	17		Relational Model		Assignment	
	18		Network Model			
	19		Hierarchical Model		Assignment	
	20		Advantage & Disadvantage of these model			
	21		RDBMS & OORDBMS			
	22		Doubt Class			
	23		Test		Test	
	24		Basic Concepts of RDBMS, Characteristics of RDBMS			
	25		Data Constraints		Assignment	
	26		Primary Key, Foreign Key, Candidate Key & secondary key			
	27		Relational Data Manipulation			
	28		Relational Functional Dependencies		Assignment	
	29		Partial Functional Dependency			
	30		Transitive Dependency & Join Dependency			
	31		Lossless decomposition, Finding keys			
	32		Normalization importance		Assignment	
	33		Normalization			
	34		SQL data types & components			
	35		DDL, DML, DCL, TCL,DQL			
	36		SQL Commands	Lab Activity		
	37		SQL commands			
	38		Savepoint, grant, revoke			
	39		Commit and rollback commands	Lab Activity	Assignment	
	40		Query Processing			
	41		Query			

			Optimization			
	42		Doubt Class			
	43		Test		Test	
	44		Revision			
	45		Revision			

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Lesson Plan for the Semester Starting: 16th January 2023

Name of theSubject:Operating System

Subject Code: B.Sc.-403

Name of the institution: DAV Institute of Management

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

Department: BSc. H CS

Class Time: 1 Hr

Month	Class	Date of Class Taken	Topic /Chapter Covered	Academic Activity	Test/ Assignment	Deviation (if any)
Jan	**1**		**Operating System Introduction**	**Lecture/ PPT**		
	2		**Operating System definition and functions/ Importance of OS**	**Lecture/ PPT**		
	3		**History of OS and OS as a Resource Manager**	**Lecture/ PPT**		
	4		**OS Types: Single user/ single Program OS, Batch Processing OS**	**Lecture/ PPT**		
	5		**Multi programming OS and Multitasking/ Time Sharing OS**	**Lecture/ PPT**		

	6		Multiprocessing and Real Time OS	Lecture/ PPT		
	7		System Calls and types	Lecture/ PPT		
	8		OS Architecture: Simple and Layered	Lecture/ PPT		
Feb	1		OS Architecture: Kernel and Microkernel	Lecture/ PPT		
	2		Process, Process Control Block, Process Transition Diagram	Lecture/ PPT		
	3		CPU Scheduling, Scheduling Criteria, Levels of Schedulers: Long Term, middle Term and Short-Term Scheduler	Lecture/ PPT		
	4		Process Scheduling: Types of Process Scheduling: Non-Pre-emptive and Pre-emptive, FCFS, SJFS	Lecture/ PPT		
	5		Round Robin Scheduling, Time Sharing Scheduling	Lecture/ PPT		
	6		Multiple-Processor Scheduling, Real-Time Scheduling	Lecture/ PPT		
	7		Memory Management Introduction: Logical versus Physical Address Space, MMU, Memory Management Techniques: Continuous and Non-Continuous Memory Techniques.	Lecture/ PPT		
	8		Internal and External Fragmentation, Compaction, Swapping,	Lecture/ PPT		

	9		Paging, Page map table, Adv and disadvantage	Lecture/ PPT		
	10		Segmentation, Segmentation with Paging	Lecture/ PPT		
March	1		Demand Paging, Performance of Demanding Paging,	Lecture/ PPT		
	2		Page Replacement, Page Replacement Algorithm,	Lecture/ PPT		
	3		File Naming, types File Operations, Access methods	Lecture/ PPT		
	4		File Structure, File Operation	Lecture/ PPT		
	5		Directory Structure and Directory Operations	Lecture/ PPT		
	6		File Space Allocations, File sharing and File Locking	Lecture/ PPT		
	7		Symbolic Link, File Protection and Security, Distributes File Systems	Lecture/ PPT		
	8		Device Management Function, I/O Devices and Controller, Interrupt Handlers	Lecture/ PPT		
	9		Device Independent I/O, I/O Software	Lecture/ PPT		
	10		Disk Scheduling: Types of Disk Scheduling: FCFS, Shortest Seek Time Scheduling	Lecture/ PPT		
	11		SCAN, C-SCAN, LOOK and C-LOOK Scheduling	Lecture/ PPT		

	12		Concurrent Programming, Sequential and Concurrent Process, Producer Consumer Problem	Lecture/ PPT		
	13		Critical Section Problem, Bernstein's Condition	Lecture/ PPT		
	14		Semaphore and its types, Mutual Exclusion Problem	Lecture/ PPT		
	15		Classical Co-ordination Problem	Lecture/ PPT		
April	1		Inter Process Communication	Lecture/ PPT		
	2		System Model, Dead locks Characterization,	Lecture/ PPT		
	3		Methods for Handling Deadlocks Deadlock Prevention	Lecture/ PPT		
	4		Deadlock Avoidance, Deadlock Detection, Recovery from Deadlock	Lecture/ PPT		
	5		Shell Programming: Concept of shell, Types of shell	Lecture/ PPT		
	6		Editors for shell programming (e.g., vi)	Lecture/ PPT		
	7		basics of Shell programming: Introduction, Data Types	Lecture/ PPT		
	8		Control Structure, Developing Simple Shell programs in UNIX	Lecture/ PPT		
	9		Process Management in Unix	Laecture/ PPT		

	10		**Process Management in Unix**	**Lecture/ PPT**		
	11		**I/O Management in UNIX**	**Lecture/ PPT**		
	12		**I/O Management in UNIX**	**Lecture/ PPT**		
	13		**Unix File System**	**Lecture/ PPT**		
	14		**Unix File System**	**Lecture/ PPT**		

Lesson Plan for the Semester Starting: 16 January, 2023

Name of the subject: Microprocessor-1

Subject Code: B.Sc 404

Name of the Institution: DAV Institute of Management

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

Department: B.SC(H) Computer Science

Class Time: 1Hr.

Month	**Class**	**Date of Class taken**	**Topic/Chapter Covered**	**Academic Activity**	**Test/Assignment**	**Deviation if any**
January	1	1	Classification Of Computer,Concept Of Microprocessor		1	NA
	2	1	Evolution of Microprocessor		1	
	3	2	8085 MIcroprocesser Bus architecture			
	4	2	8085 pin Diagram			
	5	1	Introduction of ALU		1	
	6	1	Different Types Of Register			
	7	2	Introduction of 8086 Bus Architecture			

	8	1	Comparison of 8085 & 8086			
	9	2	8086 Pin Diagram			
	10	1	Intel Series of Microprocessor		1	
	11	1	Motorola series of microprocessor		1	
	12	2	8255 PPI			
	13	1	Pin Diagram of 8255			
	14	1	8255 PPI		Test	
	15	2	8279 programmable key board and Display			
	16	1	Pin Diagram 8279			
	17	1	DMA Controller & Types			
	18	3	8237/8257 DMA Controller			
	19	5	Interfacing with 8085 and 8086 different chips			
	20	3	Assembly Language of 8085 &8086			

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Lesson Planning for the semester January,2023

Name of Institute : DAVIM

Name Of Teacher With Designation :MS.JYOTI AHUJA

Department :B.SC(HONS.)

Subject Name : SCIENTIFIC AND STATISTICAL COMPUTING

Month	Class	Date of class taken	Topic/Chapter Covered	Academic Activity	Test /Assignment	Deviation If any
Jan	Lec1		ITERATIVE METHODS:BISECTION			
	Lec 2		FALSE POSITION			
	Lec3		NEWTON RAPHSON METHOD			
	Lec4		BAIRSTOWS METHOD			
	Lec 5		DIFFERENTIAL EQUATION:GAUSS ELIMINATION METHOD			
	Lec 6		PIVOTING,III-CONDITIONED EQUATIONS			
	Lec 7		GAUSS-SEIDAL ITERATIVE METHOD			
	Lec 8		EULER METHOD,EULER MODIFIED METHOD,PREDICTOR-CORRECTOR METHODS			
	Lec 9		EULER MODIFIED METHOD			
	Lec 10		PREDICTOR CORRECTOR METHODS			
Feb	Lec 11		TAYLOR SERIES METHOD			
	Lec 12		,RUNGE – KUTTA METHOD			
	Lec 13		INTERPOLATION :NEWTON			
	Lec 14		LAGRANGES AND DIFFERENCE			

			TABLES			
	Lec 15		**CHEBYSHEY POLYNOMIAL :FIRST KIND,SECOND KIND AND THEIR RELATIONS**			
	Lec 16		**ORTHOGONAL PROPERTIES**			
	Lec 17				**DOUTS OF UNIT-2 AND REVISION**	
	Lec 18		**BASIC STATISTICS:(FREQUENCY DISTRIBUTION:INCLUSIVE SERIES,EXCLUSIVE SERIES)**			
Month	**Class**		**Topic/Chapter Covered**	**Academic Activity**	**Test /Assignment**	
	LEC 19		**MEASURE OF CENTRAL TENDENCY (AIRTMETIC MEAN:,SHORT CUT METHOD,STEP DEVIATION METHOD**			
	LEC 20		**GEOMETRIC MEAN(INDIVIDUAL SERIES,COMBINED GROUP)**			
	LEC 21		**MEDIAN(FOR INDIVIDUAL SERIES,FOR FREQUENCY DISTRIBUTION**			
	LEC 22		**MODE(BY INSPECTION**			

			AND CONTINOUS)			
	LEC 23				**DOUTS AND REVISION**	
	LEC 24				**TEST OF CENTRAL TENDENCY**	
March	**LEC 25**		**MEASURE OF DISPERSION:RANGE**			
	LEC 26		**MEASURE OF DISPERSION:(VARIANCE AND STANDARD DEVIATION)**			
	LEC 27		**MEASURE OF DISPERSION:(VARIANCE AND STANDARD DEVIATION)**			
	LEC 28				**REVISION OF MEASURE OF DISPERSION**	
	LEC 29		**MOMENTS**			
	LEC 30		**MOMENTS GENERATING FUNCTION**			
Month	**Class**		**Topic/Chapter Covered**	**Academic Activity**	**Test /Assignment**	
	LEC 31		**CORRELATION:DEGREE OF CORRELATION**			
	LEC 32		**KARL-PEARSON'S COEFFICIENT OF CORRELATION**			
	LEC 33			**PRACTICE EXAMPLE**		

	LEC 34		**SPEARMAN'S RANK CORRELATION**			
	LEC 35			**PRACTICE EXAMPLE**		
	LEC 36		**REGRESSION, LINES OF REGRESSION**			
	LEC 37		**LEAST SQUARE METHOD**			
	LEC 38			**PRACTICE QUESTION**		
April	**LEC 39**			**PRACTICE QUESTION**		
	LEC 40		**Z-TEST**			
	LEC 41			**PRACTICE EXAMPLE**		
	LEC 42		**STUDENT T-TEST**			
	LEC -43			**PRACTICE EXAMPLE**		
	LEC 44		**CHI-SQUARE TEST**			
	LEC 45			**PRACTICAL EXAMPLE**		
	LEC 46		**CURVE FITTING:METHOD OF LEAST SQUARES**			
	LEC 47		**POLYNOMIAL FIT**			
	LEC 48		**FLOATING POINT NUMBERS,REPRESENTATION**			
	LEC 49		**AIRTHMETIC OPERATION WITH NORMALIZED FLOATING POINT NUMBERS**			
	LEC 50		**ERROR IN NUMBER REPRESENTATION-INHERENT ERROR**			

	LEC 51			**PRACTICE EXAMPLE**		
	LEC 52		**TRUNCATION ABSOLUTE,RELATIVE,PERCENTAGE AND ROUND OFF ERROR**			

Lesson Plan for semester starting w.e.f16th Jan, 2023

Name of the Subject- Programming in Java

Subject code-

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

Name of teacher with designation: Esha Khanna, Assistant Professor (IT)

Department: BSc

Class Time: 1 hr.

Month	S. No.	Date of class taken on	Topic/ Chapter covered	Academic activity	Test/ Assignment	Deviation, if any
Jan	1		Java's History, Creation, Java as language of Internet	Lecture		
	2		JVM and platform Independence, Byte code, difference between JVM, JDK and JRE	Lecture		
	3		Java v/s C++: who is more object oriented? Comparison, C++ recap	Lecture, Group Discussion		
	4		Features of Java, Automatic garbage collection	Lecture		
	5		Program structure of Java, First Java Program	Lab, Demonstration		
	6		Java class Library, Basic Programs for	Lab	Assignment (Lab	

			practice		Assignment 1)	
	7		Java: Data Types, Variables and Operators, operator precedence	Lecture		
	8		Control Structure in Java, Programs	Lab, Demonstration		
	9		Defining Classes & Methods-syntax and programs.	Lecture	Assignment (Theory Assignment 1)	
	10		Constructors-Importance, Why required, Types, Constructor Overloading	Lecture, Demonstration, implementation		
	11		Revision unit 1	Test		
	12		Final Keyword in Java	Lab Demonstration		
	13		Matrices 2D and 3D	Lecture		
	14		Matrices programs	Lab, implementation		
	15		Destructors	Lecture , implementation		
	16		Keywords in Java-New operator, this reference,	Lecture		
	17		Arrays, syntax in java, types and programs	Lecture, Demonstration		
	18		Vectors	Lecture, Demonstration	Assignment (Lab Assignment 2)	
	19		Strings in Java-String class, String Handling using String class	Lecture, Demonstration		
	20		SrtingBuffer class, Difference between StringBuffer and String class	Lecture, Demonstration		
	21		Strings programs	Lab, Implementation	Assignment (Theory Assignment 2)	
	22		Inheritance-Reusability, class inheritance, choosing base class, access attributes- Syntax	Lecture		
	23		Types of Inheritance-single level, super keyword	Lecture, Demonstration		

	24		Multilevel, hierarchal Inheritance	Lab Implementation		
	25		Abstract classes	Lecture		
	26		Concept of Interface, Multiple Inheritance	Lecture, Demonstration		
	27		Polymorphism, Function Overloading	Lecture, Demonstration		
	28		Interfaces, function overloading, Dynamic Binding	Lab, Implementation	Assignment (Lab Assignment 3)	
	29		Exception handling, Concept, Types of Exceptions, Try-Catch keywords	Lecture, Demonstration		
	30		Finally, Throw and Throws keywords	Lecture, Demonstration		
	31		Creating own exceptions, programs	Lab, Implementation	Assignment (Theory Assignment 3)	
	32		Packages, Defining and creating packages	Lecture, Demonstration		
	33		Adding classes and importing classes, classpath	Lecture, Demonstration		
	34		Packages programs	Lab, Implementation		
	35		Multithreading Programming: The Java Thread Model , The Main Thread	Lecture		
	36		Creating Multiple Thread- 2 methods, Programs	Lecture, Demonstration		
	37		Thread Priorities	Lecture, Demonstration		
	38		Thread programs, Runnable Interface and Thread Class, Setting Priorities.	Lab, Implementation	Assignment (Lab Assignment 4)	
	39		Test		Test 3	
	40		Input/ Output in java, Basics, Byte and Character Structures	Lecture		
	41		I/O classes, reading console input, writing console output	Lecture, Demonstration		
	42		Reading and writing on Files	Lab, Implementation		
	43		Random Access	Lecture,	Assignment	

			Files, Storing and retrieving objects, stream benefits	Demonstration	(Theory Assignment 4)	
	44		Applets basics, architecture, Life cycle	Lecture		
	45		Applet program-syntax, first applet, HTML APPLET Tag	Lecture, Demonstration		
	46		Simple applet display methods	Lecture, Demonstration		
	47		Passing Parameters to Applets	Lab, Implementation		
	48		Lab- Applets	Lab, Implementation	Assignment (Lab Assignment 5)	
	49		Revision & Doubts	Revision		
	50		Revision- Previous year papers	Revision		

Lesson Plan For Semester Starting w.e.f16 Jan2023

Name of the Subject:- Theory of Computation

Subject Code:- BSc . 604

Name of Institute:-DAV Institute of Management,FARIDABAD,

Name of teacher with designation:- Ms. Pooja Goyal, (ASSST. PROFESSOR)

Department:- BSc(hons) Comp. Sci

Class Time:- 1 Hr.

Month	Class	Date of class Taken	Topic/Chapter Covered	Academic activity	Test/Assignment	Deviation if any
Jan	1		Basic concept of automation	Lecture		
	2		Basic concept of automation	Lecture		
	3		Evolution of the components of System Programming	Lecture		
	4		Chomsky hierarchy	Lecture		
	5		Chomsky hierarchy	Lecture		
	6		Regular grammar	Lecture		
	7		Regular grammar	Lecture		
	8		Evolution of the components of System Programming	Lecture		
	9		Assembler	Lecture		
	10		Loader	Lecture		
	11		Linker	Lecture		
	12		Macros and Compilers	Lecture		

	13		Design and implementation of a syntax analyzer generator Macros and Compilers	Lecture		
February	1		Software tool: text editors	Lecture		
	2		Interpreters and program generators	Lecture		
	3		Debug , monitor	Lecture		
	4		Programming environment	Lecture		
	5		Compiler	Lecture		
	6		Phase of compilers	Lecture		
	7		Turing acceptability and Turing decidability Un solvability of problem	Lecture		
	8		Basic operation on language			
	9		Union, intersection, complementation	Lecture		
	10		Kleene star,	Lecture		
	11		Regular language and regular expressions	Lecture		
	12		CFG	Lecture		
	13		NDPDA,DPDA	Lecture		
	14		regular expressions	Lecture		
	15		NDFA	Lecture		
March	1		Conversion to nfa/dfa	Lecture		
	2		Design and implementation of a syntax analyzer generator	Lecture		
	3		Top down v/s bottom up parsing technique	Lecture		
	4		Models of computation : turing machine	Lecture		
	5		Program based on string	Lecture\lab		
	6		Program based on binary operation	Lecture\lab		
	7		Program based on stack	Lecture\lab		
	8		Program based on state conversion	Lecture\lab		
	9		Turing machine	Lecture		
	10		Turning acceptability	Lecture		
	11		turning decidability	Lecture		
	12		Insolvability of problems (Halting problems and others).	Lecture		
	13		Insolvability of problems (Halting problems and others).	Lecture		
	14		Universal Turning	Lecture		

			machine			
	15		solving problem on turning machine	Lecture		
April	1		solving problem on turning machine	Lecture		
	2		Previous year question paper discussion	Lecture		
	3		Previous year question paper discussion	Lecture		
	4		Previous year question paper discussion	Lecture		
	5		Previous year question paper discussion	Lecture		
	6		Unit-1 doubt class	Lecture		
	7		Unit 2 doubt class	Lecture		
	8		Unit -3 doubt class	Lecture		
	9		Unit -4 doubt class	Lecture		

Lesson Plan for the Semester Starting: 19th January'23

Name of the subject: Internet Technologies

Subject Code:B.sc 601

Name of the Institution: DAV Institute of Management

Name of the teacher with designation: Ms. Monica Khatri (Assistant Professor in DAVIM)

Department: MCA

Class Time: 1Hr.

Month	Class	Date of Class taken	Topic/Chapter Covered	Academic Activity	Test/Assignment	Deviation if any
January'23	1		UNIT-1 (Introduction)Internet Basics features, Evolution of Internet	Lecture		
	2		Concept of WWW, URL, DNS, Browser	Lecture		
	3		Internet, Intranet &Extranet	Lecture	Assignment 1	
	4		Different methods of Accessing the Internet	Lecture		

	5		ISP, Modem, Broadband, Email	Lecture/Discussion		
	6		Exchange server/ Proxy server	Lecture	Assignment 2	
	7		Search engines, role use of current tools	Lecture		
	8		DSL, 2G/3G, GPRS	Lecture		
	9		Mobile Internet, Wifi, WiMax, Edge, HSDPA	Lecture	Assignment 3	
February' 23	10		Survey of contemporary internet Technologies	Lecture		
	11		Revision of Unit-1	Lecture/Discussion		
	12		**UNIT-2(TCP/IP)**	Lecture	Assignment 4	
	13		Role of transport layer in Internet, TCP/IP	Lecture		
	14		Role of Network Layer in Internet	Lecture		
	15		IP vs. UDP, HTTP vs. FTP, SMTP	Lecture		
	16		IPv4 vs. IPv6, Protocol	Lecture	Assignment 5	
	17		Hierarchy in InternetPPP, IMAP	Lecture		
	18		Basic TCP / IP name space, Correctness & Protocol	Lecture		
	19		Revision of Unit-2	Lecture	Assignment 6	
	20		**UNIT-3(Internet in work)**Concept of scripting Language HTML Basics and Features	Lecture		
	21		Programming part of HTML, HTML basic tags , Formatting Tags	Lecture		
	22		HTML Techniques of Text and image	Lecture	Assignment 7	
March'23	23		Table in HTML ,HTML Forms	Lecture		
	24		HTML color, list, blocks,DHTMLvs/ HTML	Lecture		
	25		Revision of	Lecture/Discussi	Assignment 8	

			HTML	on		
	26		**UNIT-4 (Other Technologies)**	Lecture		
	27		Overview of CGI,	Lecture		
	28		JavaScript vs. VB Script	Lecture		
	29		Javascript Data type , String, Dates, forms	Lecture	Assignment 9	
	30		Javascript syntax, assignment, arithmetic Operator	Lecture		
June	31		Javascript Data type , String, Dates, forms	Lecture		
	32		PHP, Function Arrays	Lecture		
	33		ASP intro forms data types	Lecture	Assignment 10	
	34		ASP classes , ADO objects	Lecture		
	35		PHP forms, date calendar	Lecture		
	36		Macromedia Adobe Flash software like Flash	Lecture		
	37		My Sql: Create Table, insert into, update, select commands	Lecture	Assignment 11	
	38		My SQL: SQL count, AVG, Sum, MIN, Max	Lecture		
April'23	39		My SQL: NULL, ALTER, Delete, Drop	Lecture		
	40		My SQL: NULL, ALTER, Delete, Drop	Lecture	Assignment 12	
	41		JAVA	Lecture/Discussion		
	42		JAVA	Lecture	Assignment 13	
	43		JAVA vs. Perl	Lecture		
	44		Electronic Commerce	Lecture		
	45		Dreamweaver	Lecture	Assignment 14	

*Above are the minimum number of classes to be scheduled for the subjects having classes 5 days per week. For subjects having classes 4 days per week and 3 days per week, the number of lectures are to bereduced i.e. 30 minimum number of classes for 3 days per week subject and 36 minimum number of classes for 4 days per week subject.

Lesson Plan for the Semester Starting: 16th January 2023

Name of the subject: Multimedia

Subject Code: B.Sc 602

Name of the Institution: DAV Institute of Management

Name of the teacher with designation: Dr.Shobha Bhatia/Ass.Prof.

Department: B.Sc Hons. CS, Semester: 6th

Class Time: 1Hr.

Month	Class	Date of Class taken	Topic/Chapter Covered	Academic Activity	Test/Assignme
January 2023	1		Introduction of Multimedia, concepts, Features of Multimedia	PPT	
	2		Challenges & Characteristics of Multimedia	PPT	
	3		Requirement and Importance of Multimedia Systems	PPT	
	4		Components of Multimedia, Elements of Multimedia	PPT	
	5		Various categories of Multimedia Devices in detail	PPT	
	6		Applications and uses of Multimedia, Advantages and disadvantages of Multimedia	PPT	
	7		Creation and delivery of Multimedia, stages of multimedia project development	PPT	
	8		Revision & Doubts	PPT	
	9		Multimedia Authoring tools; Types of Authoring Tools; Card and Page-Based Authoring Tools; Icon-Based Authoring Tools;	PPT	
	10		Time-Based Authoring Tools; Object-Oriented 6-Authoring Tools; Types of Multimedia Software's in detail	PPT	
February	11		File formats: audio, video, images, animation, text etc.	PPT	
	12		intelligent multimedia systems, applications	PPT	
	13		presentation devices &user interface	PPT	
	14		digital representation of sounds& formats	PPT	
	15		process of digital sounds	PPT	
	16		digital representation of video & formats	PPT	
	17		Revision & doubts	PPT	
	18		VR orientation & tracking	PPT	
	19		case studies of intelligent multimedia systems	PPT	
	20		compression & types	PPT	
	21		contdd. Compression	PPT	
	22		IMAGE COMPRESSION	PPT	
	23		Dvi technology, time based media representation & delivery	PPT	
	24		speech recognition, brief survey	PPT	
	25		digital video &image compression	PPT	
	26		Revision & Doubts		
	27				Test and Assignments
	28		production &delivery of multimedia	PPT	

	29		Intoduction to vrml, concepts	PPT	
	30		multimedia software enviornment	PPT	
March	31		limitations of workstation o/s	PPT	
	32		multimedia systems services	PPT	
	33		media stream protocol	PPT	
	34		Revision & Doubts	PPT	
	35		multimedia file systems & information representation	PPT	
	36		data models for m/m	PPT	
	37		hypermedia in detail	PPT	
	38		desktop virtual reality, VROS	PPT	
	39		Revision & Doubts	PPT	
	40		distributed VR enviornment systems	PPT	
	41		framework for multimedea systems	PPT	
April 2023	1		Revision & Doubts-Previous year question paper discussions	PPT	
	2		Previous Year Question paper discussion	PPT	
	3		Contdd. Previous Year Question paper discussion		
	4		Lab1		
	5		Lab2		
	6		Lab3		

Lesson Plan for semester starting w.e.f. 8th February,2023

Behavioral & Communication Skills – B.Sc 6th Semester

Paper Code: B.Sc-607

Name of Institute: DAV Institute Of Management, Faridabad

Name of Teacher with designation: Ms. Nidhi Mehra(Guest Faculty)

Department: B.Sc Hons. CS

Class time: 1 Hr.

Month	Class	Date Of Class Taken	Topic/ Chapter covered	Academic activity	Test/ Assignment	Deviation/if any
April	1		Overview of Subject	Verbal Discussion		
	2		Concept of Group Behavior	Lecture/ Presentation		
	3		Group classification & stages of group development	Lecture/ Presentation		
	4		External conditions imposed in the group, Group member resources	Lecture/ Presentation		
	5		Group Structure & Cohesiveness	Lecture/ Presentation		
	6		Concept of Motivation	Lecture/ Presentation		
	7		Process & Theories	Lecture/		

				Presentation		
	8		Theories of Motivation	Lecture/ Presentation		
	9		Concept of leadership	Lecture/ Presentation		
	10		Leadership Styles, The Managerial Grid	Lecture/ Presentation		
	11		Contingency approach, leadership effectiveness	Lecture/ Presentation		
	12		Concept of Power	Lecture/ Presentation		
	13		Sources of Power, Power tactics	Lecture/ Presentation		
	14		Power in groups, Politics	Lecture/ Presentation		
	15		Implications, Prepositions	Lecture/ Presentation		
	16		Concept of Communication	Lecture/ Presentation		
	17		Communication Barriers, Process of Communication , Importance of Communication	Lecture/ Presentation		
	18		Effective Listening	Lecture/ Presentation		
	19		Communication effectiveness	Lecture/ Presentation		
	20		Management concept in practicing communication, Communication Direction	Lecture/ Presentation		
	21		Formal Vs. Informal network decision making	Lecture/ Presentation		
	22		Group Vs. Individual decision making	Lecture/ Presentation		
	23		Concept of stress management	Lecture/ Presentation		
	24		Strategies of Stress Management	Lecture/ Presentation		
	25		Fax , email , Text, Office Letters, Applications	Lecture/ Presentation		
	26		Comparatives and Superlatives	Lecture/ Presentation		
	27		Subject Verb Agreement	Lecture/ Presentation		

	28		Voice, Reported Speech	Lecture/ Presentation		
	29		Tenses	Lecture/ Presentation		
	30		Articles. Tag Questions	Lecture/ Presentation		
	31		Mixed Bag Practice of Grammar	Lecture/ Presentation		
	32		Paragraph Writing	Lecture/ Presentation		
	33		Revision & Doubts	Lecture/ Presentation		