

Lesson Plan

Name of the Faculty : Mrs. Suman

Discipline : Computer Engg.

Semester : VIth

Subject :- APPLICATION DEVELOPMENT USING WEB FRAMEWORK

Lesson Plan Duration :- 15 weeks (from 15Jan,2026 to 30 April,2026)

Work load (Practical) per week (in hours) :- Practical-6

Note:- GI and GII are the respective Groups of students

Week	Practical	
	Practical Group	Topic
Week 1	G-I	Practice on HTML, CSS, Java Script
	G-II	Practice on HTML, CSS, Java Script
	G-I	Practice on Ajax.PHP & MySql
	G-II	Practice on Ajax.PHP & MySql
Week 2	G-I	Install WordPress & Create Blogs
	G-II	Install WordPress & Create Blogs
	G-I	Practice
	G-II	Practice
Week 3	G-I	Manage blogs features e.g. Images, Text Around Images, Comments, Post Formats, Linking, Pages, Categories, Smilies, Feeds, Gravatars, Password Protection
	G-II	Manage blogs features e.g. Images, Text Around Images, Comments, Post Formats, Linking, Pages, Categories, Smilies, Feeds, Gravatars, Password Protection
	G-I	Manage blogs features e.g. Images, Text Around Images, Comments, Post Formats, Linking, Pages, Categories, Smilies, Feeds, Gravatars, Password Protection
	G-II	Manage blogs features e.g. Images, Text Around Images, Comments, Post Formats, Linking, Pages, Categories, Smilies, Feeds, Gravatars, Password Protection
Week 4	G-I	Practice / viva
	G-II	Practice / viva
	G-I	Practice various designing features: Colour Scheme, Headers, CSS Horizontal Menus, Dynamic Menu, Highlighting, Navigation Links, Print
	G-II	Practice various designing features: Colour Scheme, Headers, CSS Horizontal Menus, Dynamic Menu, Highlighting, Navigation Links, Print
Week 5	G-I	Practice various designing features: Colour Scheme, Headers,

		CSS Horizontal Menus, Dynamic Menu, Highlighting, Navigation Links, Print
	G-II	Practice various designing features: Colour Scheme, Headers, CSS Horizontal Menus, Dynamic Menu, Highlighting, Navigation Links, Print
	G-I	Read More, Formatting Date and Time, Finding CSS Styles, Creating Individual Pages
	G-II	Read More, Formatting Date and Time, Finding CSS Styles, Creating Individual Pages
Week 6	G-I	Uploading Files, Using WordPress Themes, Templates, Template Tags, Template Hierarchy,
	G-II	Uploading Files, Using WordPress Themes, Templates, Template Tags, Template Hierarchy
	G-I	Practice
	G-II	Practice
Week 7	G-I	Validating a Website, Know Your Sources, WordPress Site Maintenance
	G-II	Validating a Website, Know Your Sources, WordPress Site Maintenance
	G-I	Validating a Website, Know Your Sources, WordPress Site Maintenance
	G-II	Validating a Website, Know Your Sources, WordPress Site Maintenance
Week 8	G-I	Integrate PHP & MySQL with WordPress
	G-II	Integrate PHP & MySQL with WordPress
	G-I	Practice
	G-II	Practice
Week 9	G-I	Install Moodle & various plugins
	G-II	Install Moodle & various plugins
	G-I	Create a Moodle site and Database Schema
	G-II	Create a Moodle site and Database Schema
Week 10	G-I	Create a Moodle site and Database Schema
	G-II	Create a Moodle site and Database Schema
	G-I	Design Site appearance, Front page, Front page settings
	G-II	Design Site appearance, Front page, Front page settings
Week 11	G-I	My Moodle, User profiles, Navigation, Course list, Themes, Theme settings, Header and footer, Language settings
	G-II	My Moodle, User profiles, Navigation, Course list, Themes, Theme settings, Header and footer, Language settings
	G-I	Using web services, Publishing a course, Blogs, RSS feeds
	G-II	Using web services, Publishing a course, Blogs, RSS feeds
Week 12	G-I	Practice / viva
	G-II	Practice / viva
	G-I	Manage Moodle site, Managing authentication, Manual accounts, No login
	G-II	Manage Moodle site, Managing authentication, Manual accounts, No login
Week 13	G-I	Email-based self-registration, Account
	G-II	Manual accounts, No login, Email-based self-registration, Account

	G-I	Create Roles and permissions, Assign roles,
	G-II	Create Roles and permissions, Assign roles,
Week 14	G-I	Implement Password salting.
	G-II	Implement Password salting.
	G-I	Perform Site backup, Course backup
	G-II	Perform Site backup, Course backup
Week 15	G-I	Course restore, Automated course backup
	G-II	Course restore, Automated course backup
	G-I	Practice / viva
	G-II	Practice / viva

Lesson Plan

Name of faculty : Mr. Dharamveer saini
Discipline : Computer Engineering
Semester : 4th
Subject : Computer Organization & Architecture
Lesson Plan Duration : 15 Weeks (15Jan to 30 May)
Work Load (Lecture/ Practical) per week (in hours): Lectures-04,

Week	Theory	
	Lecture day	Topic (including assignment / test)
1st	1st	Hardware organisation of computer system CPU organisation : general register organisation
	2nd	Stack organisation
	3rd	Instruction formats(three address, two address, one address)
	4 th	Zero address and RISC instruction)
2 nd	5 th	Addressing modes: Immediate, register, direct, in direct, relative, indexed
	6 th	CPU Design : Microprogrammed vs hard wired control
	7 th	Reduced instruction set computers:,
	8 th	RISC characteristics,
3rd	9 th	CISC characteristics and their comparison with RISC
	10 th	2. Memory organisation Memory Hierarchy
	11 th	RAM Chips
	12 th	ROM chips
4 th	13 th	Memory address map
	14 th	Memory connections to CPU
	15 th	Auxillary memory : Magnetic disks
	16 th	magnetic tapes.
5 th	17 th	Associative memory
	18 th	Cache memory, Virtual memory
	19 th	Memory management hardware ,
	20 th	Read and Write operation
6 th	21 st	Sessional test-I
	22 nd	3. I/O organisation
	23 rd	a. Basis Input output system(BIOS)
	24 th	Function of BIOS o Testing
7 th	25 th	Function of BIOS o Testing and initialization
	26 th	Configuring the system

	27 th	b. Modes of Data Transfer o
	28 th	Programmed I/O
8 th	29 th	Synchronous, asynchronous and interrupt initiated.
	30 th	DMA data transfer
	31 st	4. Architecture of multi processor systems
	32 nd	Forms of parallel processing
9 th	33 rd	Parallel processing
	34 th	and pipelines
	35 th	basic characteristics of multiprocessor
	36 th	multiprocessors
10 th	37 th	General purpose multiprocessors'
	38 th	Interconnection networks
	39 th	time shared common bus
	40 th	time shared common bus
11 th	41 st	Sessional test-II
	42 nd	multi port memory
	43 rd	cross bar switch
	44 th	Switch in memory
12 th	45 th	multi stage switching networks
	46	hyper cube structures
	47	hyper cube structures
	48	switching networks revise
13 th	49	Introduction to I/O interface
	50	Types of I/O Interface
	51	Asynchronous Data Transfer
	52	Revise
14 th	53	Synchronous Data Transfer
	54	Strobe Control
	55	Difference between Asynchronous & Synchronous
	56	Serial Transfer
15 th	57	Handshaking Mechanism in DT
	58	Describe Asynchronous Serial Transfer
	59	Revise
	60	Sessional Test-III

Lesson Plan

Name of Faculty: Mr. Virender Gupta

Discipline: Computer Engg Semester: 4TH

Subject: Data Structures Using C

Lesson Plan Duration: 15 Weeks (From 15January 2026 to 30 April 2026)

Week	Theory		Practical	
	Lecture Day	Topic (including assignment/test)	Pr Day	Topic
1st	1st	Problem solving concept, top down and bottom up design	1	Inserting elements in array
	2nd	structured programming Concept of data types, variables and constants		
	3rd	Concept of pointer variables and constants, Introduction to data Structure	2	Inserting elements in array
2nd	4th	Array, Linked List, Stack,	3	deleting elements in array
	5th	Queue, Trees, graphs	4	deleting elements in array
	6th	Revision		
3rd	7th	Concept of Arrays,	5	The addition of two matrices using functions
	8th	Single dimensional array		
	9th	Two dimensional array	6	The addition of two matrices using functions
4th	10th	Representation of Two dimensional Array (Base Address, LB, UB)	7	Insertion of elements in linked list
	11th	searching,		
	12th	traversing,	8	Deletion of elements in linked list
5th	13th	Inserting	9	Insertion of elements in doubly linked list
	14th	Inserting		
	15th	deleting	10	Deletion of elements in doubly linked list
6th	16th	Revision	11	Viva-Voce/File Check
	17th	Test	12	Push and pop operation in stack
	18th	Introduction to linked list and double linked list Representation of linked lists in Memory		
7th	19th	Comparison between Linked List and Array Traversing a linked list Searching linked list	13	Conversion from in-Fix to postfix notation
	20th	Insertion, deletion into linked list (At first Node, Specified Position, Last)	14	Conversion from infix to postfix notation
	21st	Application of linked lists		

8th	22nd	Doubly linked lists	15	The factorial of a given number using recursion
	23rd	Traversing Doubly linked lists		
	24th	Insertion and deletion into doubly linked lists	16	Fibonacci Series using recursion
9th	25th	Introduction to stacks, Representation of stacks with array and Linked List	17	Insertion and Deletion of elements in queue using pointers
	26th	Implementation of stacks	18	Insertion and Deletion of elements in queue using pointers
	27th	Application of stacks: Polish Notations		
10th	28th	Converting Infix to Post Fix Notation	19	Insertion of elements in circular queue using pointer
	29th	Test		
	30th	Evaluation of Post Fix Notation, Tower of Hanoi Recursion: Concept and Comparison between recursion and Iteration	20	Deletion of elements in circular queue using pointers
11th	31st	Introduction to queues, Implementation of queues using array algorithm	21	File Check/Revision/Viva
	32nd	Implementation of queues using Linked List with algorithm		
	33rd	Circular Queues , De-queues	22	Traversing of tree
12th	34th	Concept of Binary Trees, Concept of representation of Binary Tree	23	Heap Sort
	35th	Concept of balanced Binary Tree		
	36th	Traversing Binary Trees (Pre order, Post order and In order)	24	The linear search procedures to search an element in given list
13th	37th	Searching,	25	The binary search procedures to search an element in a given list
	38th	inserting in binary search trees, deleting in binary search trees		
	39th	Linear Search algorithm, Binary Search algorithm	26	The bubble sort techniques
14th	40th	Concept of sorting , Bubble Sort, Insertion Sort	27	The selection sort techniques
	41st	Selection Sort		
	42nd	Merge Sort, Radix Sort	28	The quick sort technique
15th	43rd	Heap Sort	29	The merge sort technique
	44th	Test		
	45th	Revision	30	File Check/Viva voce

Lesson Plan

Name of the Faculty	: Mrs. Swati nautiyal
Discipline	: Computer Engg.
Semester	: 6th
Subject	: EDM
Lesson Plan Duration	: From Jan 2026 to April2026

**Work load (Lecture / Practical) per week (in hours): Lectures-03, Practicals -Nil

Week	Theory		Practical	
	Lecture day	Topic (Including assignment / test)	Practical Day	Topic
1st	1st	SECTION – A ENTREPRENEURSHIP Chapter 1. Introduction	N/A	N/A
		Concept /Meaning and its need, Qualities of entrepreneur	N/A	N/A
	2nd	Functions of entrepreneur and barriers in entrepreneurship	N/A	N/A
	3rd	Sole proprietorship and partnership forms of business organisations	N/A	N/A
2nd	4th	Schemes of assistance by entrepreneurial support agencies at National, State, District –level, organisation: NSIC, NRDC	N/A	N/A
	5th	DC, MSME, SIDBI	N/A	N/A
	6th	NABARD, Commercial Banks	N/A	N/A
3rd	7th	SFC's TCO, KVIB, DIC	N/A	N/A
	8th	Technology Business Incubators (TBI) and Science and Technology Entrepreneur Parks	N/A	N/A
	9th	Revision	N/A	N/A
4th	10th	Chapter 2. Market Survey and Opportunity Identification	N/A	N/A
		Scanning of the business environment	N/A	N/A
	11th	Salient features of National and State industrial policies and resultant	N/A	N/A
	12th	Types of market survey	N/A	N/A
5th	13th	Conduct of market survey	N/A	N/A
	14th	Assessment of demand and supply in potential areas of growth	N/A	N/A
	15th	Identifying business opportunity, Considerations in product selection	N/A	N/A
6th	16th	Sessional-1	N/A	N/A
	17th	Revision Assignment No. 1: (inincluding Unit 1 & Unit 2)	N/A	N/A
	18th	Test	N/A	N/A
7th	19th	Chapter 3. Project report Preparation	N/A	N/A
		Preliminary project report	N/A	N/A
	20th	Detailed project report	N/A	N/A
	21st	Technical, economic feasibility	N/A	N/A
8th	22nd	Market feasibility	N/A	N/A
	23rd	Common errors in project report preparations	N/A	N/A
	24th	Exercises on preparation of project report	N/A	N/A
9th	SECTION –B MANAGEMENT Chapter 4. Introduction to Management		N/A	N/A
	25th	Definitions and importance of management, Principles of management (Henri Fayol, F.W. Taylor)	N/A	N/A

	26th	Functions of management: Importance and process of planning, organizing, staffing, directing and controlling	N/A	N/A
	27th	Concept and structure of an organisation, Types of industrial organisations a) Line organization, b) Line and staff organisation c) Functional Organisation	N/A	N/A
10th	28th	Sessional 2	N/A	N/A
	29th	Chapter 5. Leadership and Motivation a) Leadership Definition and Need, Qualities and functions of a leader	N/A	N/A
	30th	b) Motivation Manager Vs leader, Types of leadership Definitions and characteristics	N/A	N/A
	31st	Factors affecting motivation, Theories of motivation (Maslow, Herzberg, Douglas, McGregor) Assignment No. 2: (including Unit 3,4 & 5)	N/A	N/A
11th	32nd	Revision	N/A	N/A
	33rd	Test	N/A	N/A
	34th	Chapter 6. Management Scope in Different Areas a) Human Resource Management Introduction and objective, Introduction to Man power planning,	N/A	N/A
12th	35th	Recruitment and selection, introduction to performance appraisal methods	N/A	N/A
	36th	b) Material and Store Management Introduction functions, and objectives	N/A	N/A
	37th	ABC Analysis and EOQ Marketing and sales Introduction, importance, and its functions	N/A	N/A
13th	38th	Physical distribution, Introduction to promotion mix, Sales promotion	N/A	N/A
	39th	d) Financial Management Introduction, importance and its functions,	N/A	N/A
	40th	Elementary knowledge of income tax, sales tax, excise duty, custom duty and VAT	N/A	N/A
14th	41st	Chapter 7. Miscellaneous Topics a) Customer Relation Management (CRM) Definition and need, Types of CRM	N/A	N/A
	42nd	b) Total Quality Management (TQM) Statistical process control, Total employees Involvement, Just in time (JIT)	N/A	N/A
	43rd	Introductions, definition and its importance, Infringement related to patents, copy right, trade mark	N/A	N/A
	44th	Revision Assignment No. 3: (including Unit 7 & Unit 8)	N/A	N/A
15th	45th	Test	N/A	N/A
	46th	Sessional 3, Revision unit 1,2,3,4	N/A	N/A

Govt. Polytechnic, Ambala City

Lesson Plan

Name of the Faculty : **Mrs. Swati Nautiyal**
Discipline : **Computer Engineering**
Semester : **2nd**
Subject : **Multimedia Applications**
Lesson Plan Duration : **15 weeks (15Jan2026 to 30April2026)**
Work Load (Lecture) per week (in hours): **Lectures-02 and Lab-04**

Week	Theory		
	Lecture day	Topic (including assignment / test)	Practicals
1 st	1 st	Introduction to Multimedia System; Components and tools of multimedia	Study of Adobe Flash Tool
	2 nd	Applications of Multimedia	
2 nd	3 rd	Multimedia file audio/video format; Media, File Format and types of media files	Frame by Frame Animation
	4 th	Basic Multimedia hardware and software requirements. Quality, criteria and specification of hardware component	
3 rd	5 th	Difference between Analog and Digital Signal	Motion Tweening
	6 th	Modulation and Digital Recording; Search of Digital Recording by converting sound into numbers	
4 th	7 th	Sound Card Connection, History of Sound Card. Types of Sound Card; Area of computer to use sound card, advantages of external sound card	Shape Tweening
	8 th	Function of Playback and recording, MIDI, Components of MIDI, MIDI Connectors, Features and working of MIDI	
5 th	9 th	Revision	Practice
	10 th	Sessional 1	
6 th	11 th	Hardware Requirement for text	Single Layer Masking
	12 th	Software Requirement for text	
7 th	13 th	Coloring of Text	Double Layer Masking
	14 th	Fundamental Image Processing Steps	
8 th	15 th	Types of Image Processing	Adding Video Clips
	16 th	Digital Image Editing	
9 th	17 th	Class Test	Movie Clip, Buttons
	18 th	Animation Techniques	

10th	19th	Revision	Practice
	20th	Sessional 2	
11th	21st	Digital Video fundamentals	Publishing of Flash Movie
	22nd	Relationship between pixel and video bitrate	
12th	23rd	Steps to create high quality video	Study of Adobe Photoshop Tools
	24th	Digital Video Production Techniques	
13th	25th	Revision	Image Editing in Photoshop
	26th	Authoring Tools and their features	
14th	27th	Classification of Authorizing Tools	Applying Special Effects
	28th	Multimedia Project Planning and Costing	
15th	29th	Multimedia team	Practice
	30th	Sessional 3	

Govt.Polytechnic, Ambala City

Lesson Plan(OOPS Using JAVA)

Name of the Faculty:

Madhu Bala

Discipline:

Computer Engg.

Semester:

4th

Subject:

OOPS Using JAVA

Lesson Plan Duration: (From 15 Jan, 2026 to 30 April, 2026)

Work Load (Lecture/Practical) per week (In hour):

Lecture-02,Practical - 04

WEEK	THEORY		PRACTICAL	
	LECTURE DAY	TOPIC	PRACTICAL DAY / PERIOD	TOPIC
1st	1	UNIT1 INTRODUCTION AND FEATURES Fundamentals of object oriented programming	1-4	1. Write a program in JAVA to print "Hello" using classes.
	2	Procedure oriented programming Vs. object oriented programming(OOP)		
	3	Object oriented programming concepts– Classes, object, object reference		
2nd	1	Abstraction , encapsulation	1-4	2. Write a program to input using Scanner Class.
	2	Inheritance ,polymorphism		
	3	Introduction of eclipse(IDE) for developing programs in Java		
3rd	1	UNIT2 LANGUAGE CONSTRUCTS Review of constructs of C used in JAVA: variables	1-4	3. Write a program to print factorial of a Number.
	2	Types and type declarations		
	3	Datatypes		
4th	1	Increment operators	1-4	4. Write a program to create a Class and make objects of that class.
	2	Decrement operators		
	3	Relational and logical operators		
5th	1	If then else clause; conditional expressions	1-4	5. Create a class with data members Feet, Inches and add them.
	2	Input using scanner class and output statement		
	3	Loops,switchcase,arrays,methods		
6th	1	UNIT3 CLASSES AND OBJECTS Creation	1-4	6. Create a class using constructors.
	2	Accessing class members		
	3	Private Vs Public Vs Protected Vs Default		
7th	1	Constructors	1-4	7. Create a class and show the use of Single inheritance.
	2	Object		
	3	Object Reference		

8th	1	UNIT4 INHERITANCE Definition of inheritance	1-4	8. Create a class and show the use of multiple inheritance.
	2	Protected data		
	3	Public data, Constructor chaining		
9th	1	Order of invocation	1-4	9. Create a class and show the use of Multi-level inheritance.
	2	Types of inheritance		
	3	Single inheritance		
10th	1	Multilevel inheritance,	1-4	10. Create a class showing the use of Constructor Overloading.
	2	Hierarchical inheritance		
	3	Hybrid inheritance		
11th	1	UNIT5 POLYMORPHISM Method overloading	1-4	11. Create a program showing the use of Interfaces.
	2	Constructor overloading		
	3	Method overriding		
12th	1	Up-casting	1-4	12. Create a program using Try and Catch Block.
	2	Down-casting		
	3	UNIT6 ABSTRACT CLASS & INTERFACE Key points of Abstract class		
13th	1	Interface	1-4	Revision
	2	Difference between an abstract class & interface		
	3	Implementation of multiple inheritance Through interface		
14th	1	UNIT7 EXCEPTION HANDLING Definition of exception handling	1-4	Revision
	2	Implementation of keywords like try		
	3	Catch, finally		
15th	1	Throw & Throws	1-4	Revision
	2	Importance of exception handling in practical implementation of live projects		
	3	REVISION		
16th	1	TEST	1-4	Revision
	2	REVISION		
	3	REVISION		

LESSON PLAN

NAME OF FACULTY	:	Mr. Virender Gupta
DISCIPLINE	:	COMPUTER ENGINEERING
SEMESTER	:	4 TH
SUBJECT	:	MOOC (DIGITAL MARKETING)
DURATION	:	15 WEEKS (15 TH JAN TO 30 th april)

Work Load (Lecture/ Practical) per week (in hours): Lectures-2

Week	Theory	
	Lecture/Day	Topic (including assignment / test)
1st	1st	Introduction to Digital Marketing and its Significance
	2nd	Traditional Marketing Vs Digital Marketing, Digital Marketing Process
2 nd	3rd	Website Planning and Development: Types of websites
	4th	Website Planning and Development: Keywords
3 rd	5th	Understanding Domain and Webhosting
	6th	Building Website/Blog using CMS WordPress
4 th	7th	Introduction to Search Engine Optimization, Keyword Planner Tools
	8th	On Page SEO Techniques-Indexing and Key Word Placement
5 th	9th	On Page SEO Techniques- Content Optimization, On Page SEO: Yoast SEO Plug-in, Off –Page SEO Techniques
	10th	Sessional Test I
6 th	11th	Email Marketing- Introduction and Significance, designing e-mail marketing campaigns using Mail Chimp
	12th	Building E-mail List and Signup Forms
7 th	13th	Email Marketing Strategy and Monitoring, Email –Atomization
8 th	14th	Pay Per Click Advertising: Introduction, Pay Per Click Advertising: Google Adword
	15th	Types of Bidding strategies
	16th	Designing and Monitoring search campaigns, Designing g and Monitoring Display campaigns
9 th	17th	Designing and Monitoring Video campaigns
	18th	Designing g and Monitoring Universal App Campaigns
10 th	19th	Google Analytics: Introduction and Significance, Google Analytics Interface and Setup
	20th	Sessional Test II

11 th	21 st	Understanding Goals and Conversions
	22 nd	Monitoring Traffic Behavior and preparing Reports
12 th	23 rd	Social Media Marketing: Introduction and Significance, Facebook Marketing: Introduction Types of Various Ad Formats
	24 th	Setting up Facebook Advertising Account
13 th	25 th	Understanding Facebook Audience and its Types,
	26 th	Designing Facebook Advertising Campaigns
	27 th	Working with Facebook Pixel
14 th	28 th	Twitter Marketing: Basics, Designing Twitter Advertising Campaigns
	29 th	Introduction to LinkedIn Marketing, Developing digital marketing strategy in Integration form
15 th	30 th	Sessional Test III
		Revision

LESSON PLAN

Name Of Faculty : Madhu Bala
 Discipline : Computer Engineering
 Semester : 6th
 Subject : Network Security): Lecture-2, Practical-4)
 Lesson Plan Duration : 15 Weeks

Week	Theory		Practical
	Lecture Day	Topic (Including Assignment / Test)	Topic to be done in lab
1	1	Introduction to Network Security	
	2	Need for securing a network	
	3	Principles of Security	
2	1	Type of attacks, introduction to cyber-crime	Installation and comparison of various antivirus software.
	2	cyber law-Indian Perspective	
	3	IT Act 2000 and amended 2008, cyber ethics, ethical hacking	
3	1	Hacking, Skimming, attacker, phreaker, hackivist,	
	2	bluejacking, bluesnarfing,, IOS Jailbreaking.	
	3	Assignment and Revision	
4	1	Introduction to basic encryption and decryption	Installation and study of various parameters of firewall
	2	concept of symmetric and asymmetric key cryptography,	
	3	overview of DES	
5	1	Overview of RSA and PGP	
	2	Introduction to Hashing	
	3	MD5, SSL, SSH, HTTPS,	
6	1	Digital Signatures	Writing program in C to Encrypt/Decrypt using XOR key.
	2	Digital certification, IPSec.	
	3	Assignment and Revision	
7	1	VIRUS, WORMS AND TROJANS, introduction	
	2	Various preventive measures.	
	3	Test 1	
8	1	preventive measures – access central, checksum verification, process configuration,	Study of VPN.
	2	virus scanners, heuristic scanners,	
	3	application level virus scanners	
9	1	deploying virus protection	
	2	Zombie, Ransomware.	
	3	Assignment and Revision	
10	1	FIREWALLS, Introduction	Study of various hacking tools.
	2	Definition and types of firewalls	
	3	firewall configuration	
11	1	Test 2	
	2	Limitations of firewall	
	3	Whitelisting Vs blacklisting.	
12	1	Assignment and Revision	Practical applications of digital signature.
	2	Overview of Firewall, Limitations, Types, etc.	
	3	HANDLING CYBER ASSETS,	
13	1	Configuration policy as per standards, Disposable policy.	
	2	VIRTUAL PRIVATE NETWORK (VPN), Introduction	
	3	Basics, setting of VPN, VPN diagram, configuration of required objects,	
14	1	exchanging keys, modifying security policy	
	2	DISASTER AND RECOVERY,	
	3	Disaster categories; network disasters – cabling, topology,	
15	1	Single point of failure, save configuration files;	
	2	server disasters – UPS, RAID, Clustering, Backups, server recovery	
	3	Assignment and Revision	
	4	Test 3,	

Lesson Plan

Discipline :Computer Engg

Semester :2ND

Subject : Advance in information technology

Lesson Plan Duration : 15 weeks(from 15January 2026 to 30 april 2026)

Work Load(Lecture/Practical)perweek(inhours):Lectures-02,Practical-04

Week	Theory		Practical	
	Lecture day	Topic	Practical week	Topic
1 st	1 st	UNIT I HTML Fundamentals Introduction to HTML- Characteristics of HTML language, Structure of a HTML page. Describing Tags.	1st	1. Creating an HTML document
	2 nd	How to create a HTML document? Viewing HTML document, commonly used web browsers. HTML4 – List of Tags in HTML4, HTML tags:.		
2 nd	3RD	Container elements, empty elements. Using tags, Heading, Paragraph, Changing appearance of text (bold, italics, underline, subscript, superscript)	2nd	2. Working with Mark up Tags
	4TH	center tag, title tag. Changing font size, text color and background, Changing the background color and background of HTML page		
3 rd	5th	Top margin, left margin, ,<hr> and its attributes	3rd	3. Working with Heading-Paragraphs
	6th	Revision		
4 th	7th	Test	4th	4. Working with Text
	8th	Working with HTML Using list and images: Unordered lists: type attribute. Ordered lists: start attribute, type attribute, value attribute.		5. Working with Lists
5 th	9th	Nested lists. Inserting images, aligning an image, centering image, adding border to a image, alternate text,	5th	6. Working with Tables and Frames
	10th	setting height and width, adding space around the image. Working with links: Anchor elements, creating hyperlink to a document.		7. Working with Hyperlinks 8. Working with Images and Multimedia 9. Working with Forms and controls.

6 th	11 th	Internal linking and external linking.	6th	10. Create a HTML form with Name, Password and Confirm Password Write a Java script to validate if Password and Confirm Password field values are same. 11. Write a Java script to animate a simple Image using set Timeout.
	12 th	Assignment		
7 th	13 th	Test	7th	12. Write a Java script to illustrate auto refreshing in your own Web page. 13. Develop a simple calculator using Java script.
	14 th	Designing with HTML Creating tables: Creating a table, attributes of table tag		

Week	Theory		Practical	
	Lecture day	Topic (including assignment/test)	Practical Day	Topic
8 th	15 TH	(BORDER, BORDERCOLOR, BGCOLOR, ALIGN, CELLSPACING, CELLPADING, WIDTH) Attributes of table row <tr> and table data <td>	8th	14. Write a Java script to illustrate the use of cookies in your own Web page. 15. Write a Java script to prompt two integer numbers from the user and display the sum of them. .
	16 TH	tag (BORDERCOLOR, BGCOLOR, ALIGN, VALIGN, HEIGHT). Row span and Col span. Working with Frames.		
9 th	17 th	Use and creating frames. Introduction to Forms Steps for developing a Website	9th	16. Write a Java script to greet the user with “Good Morning” or “Good Afternoon” or “Good Evening” depending on the current time.
	18 th	Assignment		
10 th	19 th	Test	10th	17. Generate a Digital Clock using Java script.
	20 th	JAVA Script Overview and Core Language Features		
11 th	21 st	Introduction to Scripting Languages, JavaScript Implementation-ECMAScript-DOM-BOM-Values-Variables-Literals-Constants-Operators a	11th	18. Write a Java script to change the background color of the image in definite time intervals
	22 nd	Expressions-Regular Expressions Conditional Branching Statements- Conditional Looping Statements-Functions		
12 th	23 rd	Creating Simple Java Script page-Adding JavaScript page into HTML	12th	Revision
	24 th	Assignment		
13 th	25 th	Test	13th	Revision
	26 th	Document Access		

		The Document Object Model: Mapping your HTML -Text Nodes-Attribute Nodes Accessing the Nodes you Want:		
14 th	27th	Finding an Element by ID-Finding Elements by Tag Name-Finding Elements by Class Name;	14th	Revision
	28th	Navigating the DOM Tree-Interacting with Attributes - Changing Styles		
15 th	29th	Changing Styles with Class and Id-Font-Table Layout-Text Properties- Padding, Borders and Margins	15th	Revision
	30th	Revision		

Lesson Plan

Name of the Faculty : Mr. Virender Gupta, Mrs. Madhu Bala ,
Mr. Dharamveer saini , Mrs .Swati Nautiyal

Discipline : Computer Engg.

Semester : 6th

Subject : Project

Lesson plan duration : 15 weeks (from 15 Jan, 2026 to 30 april, 2026)

Week	Practical	
	Practical Day	Topic
1 st Week	1 st -G1	Selection of Project
	2 nd - G2	Selection of Project
Week 2	1 st -G1	Finalization of Project
	2 nd - G2	Finalization of Project
Week 3	1 st -G1	Outline of Project
	2 nd - G2	Outline of Project
Week 4	1 st -G1	Planning of Project
	2 nd - G2	Planning of Project
Week 5	1 st -G1	Execution of Project
	2 nd - G2	Execution of Project
Week 6	1 st -G1	Execution of Project
	2 nd - G2	Execution of Project
Week 7	1 st -G1	Execution of Project
	2 nd - G2	Execution of Project
Week 8	1 st -G1	Execution of Project
	2 nd - G2	Execution of Project

Week 9	1 st -G1	Execution of Project
	2 nd -G2	Execution of Project
Week 10	1 st -G1	Providing Solution of Problems
	2 nd - G2	Providing Solution of Problems
Week 11	1 st -G1	Production of Final Executed project
	2 nd - G2	Production of Final Executed project
Week 12	1 st -G1	Checking of Final Project
	2 nd - G2	Checking of Final Project
Week 13	1 st -G1	Report writing
	2 nd - G2	Report writing
Week 14	1 st -G1	Seminar
	2 nd - G2	Seminar
Week 15	1 st -G1	Viva-Voce
	2 nd - G2	Viva-Voce

Lesson Plan

Name of the Faculty : Mrs. Payal Arora

Discipline : Computer Engg.

Semester : 4th

Subject : Project

Lesson plan duration : 15 weeks (from 15 Jan, 2026 to 30 April, 2026)

Week	Practical	
	Practical Day	Topic
1 st Week	1 st -G1	Selection of Project
	2 nd - G2	Selection of Project
Week 2	1 st -G1	Finalization of Project
	2 nd - G2	Finalization of Project
Week 3	1 st -G1	Outline of Project
	2 nd - G2	Outline of Project
Week 4	1 st -G1	Planning of Project
	2 nd - G2	Planning of Project
Week 5	1 st -G1	Execution of Project
	2 nd - G2	Execution of Project
Week 6	1 st -G1	Execution of Project
	2 nd - G2	Execution of Project
Week 7	1 st -G1	Execution of Project
	2 nd - G2	Execution of Project
Week 8	1 st -G1	Execution of Project
	2 nd - G2	Execution of Project

Week 9	1 st -G1	Execution of Project
	2 nd -G2	Execution of Project
Week 10	1 st -G1	Providing Solution of Problems
	2 nd - G2	Providing Solution of Problems
Week 11	1 st -G1	Production of Final Executed project
	2 nd - G2	Production of Final Executed project
Week 12	1 st -G1	Checking of Final Project
	2 nd - G2	Checking of Final Project
Week 13	1 st -G1	Report writing
	2 nd - G2	Report writing
Week 14	1 st -G1	Seminar
	2 nd - G2	Seminar
Week 15	1 st -G1	Viva-Voce
	2 nd - G2	Viva-Voce