Session: 2025-26 (Odd Semester)

Lesson Plan B.Sc. Comp. Sc.1st semester

Name of the Teacher: Ms. Kirti. Subject: Basics of Computer Science

Sr. No.	Month	Торіс
1	Aug	Introduction to Computers: Definition of Computers
2		History and Generations of Computers
3		Characteristics of computer
4		Fundamental Block diagram of Computer: CPU, Input & Output Unit.
5		Classification of Computers.
6	Sept	Software: Definition of Software
7		Types of Software-System software
8		Application software and Utility software.
9		Types of Computer Languages
10		Assemblers, Interpreters, Compiler.
11	Oct	Introduction to Operating Systems: Types of Operating System, Functions of Operating System
12		Windows: Introduction to Windows, Starting Windows, Desk Top, Task Bar
13		Opening and closing applications
14		icons- creating, renaming and removing. Date and Time setting
15		Working with files and folders-creating, deleting, opening, finding, copying, moving, and renaming
16	Nov	Networking: Concept, Basic Elements of a Communication System
17		Data Transmission Media, LAN, MAN, WAN
18		Introduction of Internet and WWW, Basic working of a Web Browser, Introduction to popular web browsers.

Session: 2025-26 (Odd Semester)

Lesson Plan B.Sc. Comp. Sc.1st semester

Name of the Teacher: Ms. Kirti. Subject: Logical Organization of Computer

Sr. No.	Month	Topic	
		Number Systems: Binary, Octal, Hexadecimal etc. Conversions from	
1	Aug	one number system to another, BCD Number	
		System. BCD Codes: Natural Binary Code, Weighted Code, Self-	
2		Complimenting Code, Cyclic Code.	
		Error Detecting and Correcting Codes. Character representations: ASCII,	
3		EBCDIC and Unicode.	
		Number Representations: Integer numbers - sign-magnitude, 1's & 2's	
4		complement representation	
_		Deal Number representations	
5		Real Numbers normalized floating point representations.	
	Comt	Binary Arithmetic: Binary Addition, Binary Subtraction, Binary	
6	Sept	Multiplication	
7		Boolean Algebra: Boolean Algebra Postulates, basic Boolean Theorems,	
7		Boolean Expressions, Boolean Functions, Truth Tables	
8		Canonical Representation of Boolean Expressions: SOP and POS,	
8		Simplification of Boolean Expressions using Boolean Postulates	
0		Binary Division using 1's and 2's Compliment representations, Addition	
9		and subtraction with BCD representations.  Theorems, Kaurnaugh-Maps (upto four variables), Handling Don't Care	
10		conditions.	
10		Logic Gates: Basic Logic Gates – AND, OR, NOT, Universal Gates –	
11	Oct	NAND, NOR, Other Gates – XOR, XNOR etc.	
11	Oct	NAND, NOR, Other dates – XOR, XNOR etc.	
12		Their symbols, truth tables and Boolean expressions.	
		Combinational Circuits: Design Procedures, Half Adder, Full Adder, Half	
13		Subtractor, Full Subtracor, Multiplexers	
14		Demultiplexers, Decoder, Encoder, Comparators, Code Converters.	
		Sequential Circuits: Basic Flip- Flops and their working. Synchronous	
		and Asynchronous Flip –Flops, Triggering of Flip-Flops, Clocked RS, D	
15		Type, JK, T type and Master-Slave Flip-Flops.	
1.5		State Table, State Diagram and State Equations. Flip-flops	
16	Nov	characteristics	
17		Excitation Tables, Sequential Circuits: Designing registers – Serial-In	
17		Serial-Out (SISO), Serial-In Parallel-Out (SIPO)	
		Parallel-In Serial-Out (PISO) Parallel-In Parallel-Out (PIPO) and shift	
18		registers.	

Session: 2025-26 (Odd Semester)

Lesson Plan B.Sc. Comp. Sc.IIIrd semester

Name of the Teacher: Ms. Kirti. Subject: Presentation Tools

Sr. No.	Month	Topic
227107	1/20202	Creating New Presentations: Creating a Presentation, Choosing a
1	Aug	Template/Theme,
2		Changing the Template/Theme, Adding Slides, Typing in Slide, Choosing a Slide Layout,
3		Changing the Slide Layout, Adding Text & Outline
		Adding Text Bulleted, Numbered Lists Adding & Editing Text with
4		Outline
5	Sept	View Outline, View Keystrokes.
		Pictures & Graphics: Placing Pictures into Placeholders, Cropping
		Photos, Sizing Graphics
6		Fining Streetshad / Sunish ad Dhatas Dhatas Coop to Change Association
7		Fixing Stretched/Squished Photos, Photos Crop to Shape, Aspect Ratio Adjustment,
,		Aujustinent,
8		Photos & Graphics Picture Adjustments (converting to Black & White),
9	Oct	Picture Border, Layered Objects, Aligning Evenly, Distributing, Grouping
		Reordering Layered Objects. SmartArt: Creating SmartArt, Adding Text
		Layouts
10		·
11		Adding Shapes, Shapes Resizing, Styles, Shapes
		Converting Text into SmartArt, SmartArt with Picture, Adding Lines,
12		Styling Shapes, Adding Text
13	Nov	Moving, Rotating Shapes, Connector Lines, Text Boxes. Tables: Creating Tables in PowerPoint, Typing in Table
10	1107	Data Designing, Table Layout, Sizing Tables, Columns/Rows Alignment,
		Spacing In a Table
14		
		Adding or Removing Rows/Columns, Merging Cells, Copying & Pasting
1.5		Charts
15		Importing Excel data to a Chart, Updating the Chart Data when the
		Excel File Changes.
16		LACCITIE CHAIRES.

Session: 2024-25 (Odd Semester)

#### **Lesson Plan PGDCA**

Name of the Teacher: Ms. Kirti.

**Subject: Operating System with Linux** 

Sr. No.	Month	Торіс
		Introduction to Operating Systems: Definition, types, and functions of an operating
		system
1	Aug	
2		System Structures: Operating system services, system calls, system programs, and system structure; Process Management: Process concept, process scheduling.
3		operations on processes, inter-process communication; CPU Scheduling:
4		Scheduling criteria, scheduling algorithms (FCFS, SJF, Priority, Round Robin, Multilevel Queue Scheduling
4		
		Memory Management: Memory Hierarchy, Types of memory, memory allocation
5	Sept	techniques; Paging and Segmentation: thrashing; File System
	Берг	Basic concepts, paging, segmentation, segmentation with paging; Virtual Memory
6		
7		Demand paging, page replacement algorithms, allocation of frames,
8		File concepts, access methods, directory and disk structure, file system mounting, file sharing, protection
		Introduction to Linux: History, features, architecture of Linux; Linux File System: File
9	Oct	and directory
9	Oct	file nermissions, standard file types, Pasis Commands, File and directory, apprehing
10		file permissions, standard file types; Basic Commands: File and directory operations
		text processing (cat, grep, sort), system status (ps, top, df, du)
11		Contrating the book of the shall shall unitable a contral should be used if and their
		Scripting: Introduction to shell, shell variables, control structures (if, case, while, for), writing simple shell scripts.
12		
		Process Management in Linux: Managing processes (ps, top, kill, nice), job
10	27	scheduling (cron, at); User and Group Management System Administration:
13	Nov	Creating and managing users and groups, file permissions, changing ownership
		(chown, chgrp);
14		(chown, chgrp),
		Networking in Linux: Basic network commands (ifconfig, ping, netstat, ssh),
		configuring network interfaces;
15		hookun and rostoro logging. Conwity Designation in the control of
		backup and restore, logging: Security: Basic security concepts, user authentication.
16		Package management (installing and removing software using rpm, dpkg, apt-get)

#### Govt. College, Safidon (Jind)-126112 Session: 2024-25 (Odd Semester)

#### **Lesson Plan PGDCA**

Name of the Teacher: Ms. Kirti. Subject: Operating System with Linux

Sr. No.	Month	Topic
		Modeling: Introduction: Object-Orientation, Object Oriented Methodology,
		Modeling, Class Object, Advanced State Modeling:
1	Aug	
2		Class, Value & Attributes, Operation & Method, Link & Association,
2		Association Classes, Qualified association,
		Multiplicity, Association end name, Ordering, Bag &Sequences,
3		Generalization & Inheritance, Uses of Generalization.
3		Nested State Diagram, Nested States, Signal Generalization, Concurrency.
4		Trested State Stagnary, rested States, Signar Serieranzadori, Corredit Chey.
		Advance Class Modeling: Advanced Object & Class Concepts
_		Multiple Inheritance
5	Sept	NA CONTRACTOR
6		N-Array, association, Aggregation, Abstract Class
0		Metadata, State Modeling: Events, States, Transition & Conditions
7		Michaela, state Modeling. Events, states, mansion a conditions
		State Diagram, State, Diagram Behavior.
8		
		System Design: Overview, Estimating Performance, Making a reuse plan,
0	0.4	Management of data storage
9	Oct	Breaking a system into subsystems, Identifying Concurrency, Allocation of
		subsystem
10		Subsystem
-		Handling global resources, Choosing a software control strategy,
11		
		Handling boundary conditions, Setting trade-off priorities.
10		
12		Use Case Models: Actors, Use case, Use case diagram, Guidelines for use
		case diagram.
13	Nov	cuse diagram.
		Sequence Model: Scenarios, Sequence Diagrams, Guidelines for Sequence
		model.
14		
		Activity Model: Activities, Branches, Initiation & Termination, Concurrent
		Activities, Executable Activity Diagram, Guidelines for Activity diagram.
15		
		Case Study: Working of ATM with reference to implementation of basic
1.6		structure, advanced structure, and functionality.
16		