GOVT. NATIONAL COLLEGE, SIRSA
राजकीय नैशनल महाविद्यालय, सिरसा
B++ Grade, NAAC Accredited

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LESSON PLAN 2025-26

LESSON PLAN(2025-26)

Class :   **BCA Ist Sem**

Subject :   **COMPUTER Fundamental**

Marks: **Maximum Marks=50 (External = 35 Marks Internal= 15))**

Month	Week	Topics
August 2025	3rd	Introduction to computer , components of computer and black diagram of computer,characteristics and limitations of computer Generations of computer ,Input devices: text point draw devices, direct data input devices.
	4th	Output devices : Printer,monitor,speakers and plotters Classification of computers on the basis of purpose,size and data handling ,computer languages
September 2025	1st	Memory types - primary , secondary, cache register, characteristics, hierarchy of memory
	2nd	Hardware &software : introduction to hardware, software types , Difference between hardware and software
	3rd	Number system : binary number system, octal number system,decimal number system
	4th	hexadecimal number system,conversion of different types of number system, Assignment-1
October 2025	1st	Operating system and its types, layered architecture of operating system , Mid-Term Exam
	2nd	Functions and services of an operating system ,user interface, Mobile operating system for mobile and desktop
	3rd	Windows accessories : notepad ,wordpad++, control panel add or remove programs, display properties, change date &time
	4th	Computer network: computer network and it types (LAN,MAN, WAN, PAN,)
November 2025	1st	Email:steps to create an email account and how to send an email with attachment , advantages of email
	2nd	Internet and its applications , advantages and disadvantages of an internet, services of internet
	3rd	Web browser and its types, search engines,webpage and websites.
	4th	Revision of syllabus

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LESSON PLAN(2025-26)

Class :   **PGDCA**
Subject :   **PGDCA101: Introduction to Information Technology**
Marks: **Maximum Marks=100 (External = 70 Marks Internal Assessment=30)**

Month	Week	Topics
August 2025	4th	Introduction to Computers: Characteristics and Limitations of computers,Evolutions of Computers, Classification of Computers, Computer Languages,Types of Language Translators
September 2025	1st	Hardware and software and its types, Structured Programming Concept ,Components of a computer, CPU, ALU, Memory Hierarchy, Registers,Types of memory
	2nd	Introduction to MS-Word, Creating & Editing Text, Components of MS-Word, Uses and Features of MS-Word.
	3rd	Formatting and its types ,Text Formatting, Paragraph Formatting,Page Formatting
	4th	Advanced Features: Bookmark, Mail Merge and Macros ,Assignment-1
October 2025	1st	Introduction to MS-Excel, Components of MS-Excel and Features of MS-Excel
	2nd	Formatting data,Formulas and Functions,Creating Charts and Pivot Tables ,Mid-Term Exam
	3rd	Introduction to MS-Power point,Components of MS- Power point and Features of MS-Power point,Creating, Manipulating & Enhancing Slides
	4th	Organizational Charts,Animations & Sounds, Inserting Animated Pictures
November 2025	1st	History of Internet,Applications of Internet and services of Internet
	2nd	Web Browsers, Web Servers, Hypertext Transfer Protocol,Internet Protocols and Addressing,Types of Computer Network, Network Topologies, Basics of Transmission Media;
	3rd	Internet Connection Types, How Internet Works, ISPs, Search Engines and its features,Emails and Its Working, Internet Security,
	4th	Cloud Computing Basics: Overview, Applications, Intranets and the Cloud; Benefits, Limitations and Security Concerns.

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LESSON PLAN(2025-26)

Class :   **BSc- 5th Sem**
Subject :   **COMPUTER NETWORKS**
Marks: **Maximum Marks=50 (External = 40 Marks Internal= 10))**

Month	Week	Topics
August 2025	3rd	Data as Analog Signal and Digital Signal, Data encoding,Transmission media as wired and wireless Bandwidth capacity, data rate and baud rate, Framing and errors
	4th	Asynchronous and Synchronous communication, Introduction to Networks
September 2025	1st	Introduction to Carrier waves,Baseband and Broadband, Modulation and Demodulation
	2nd	Switching and its types, Packet, message and circuit switching
	3rd	Multiplexing and DeMultiplexing(FDM,TDM and WDM) OSI and TCP/IP Models
	4th	Layers of models , communication between layer of reference models ,various protocols ,Assignment-1
October 2025	1st	Flow control (stop and wait , sliding window),Mid-Term Exam
	2nd	Types of Networks, Lan topologies and their Media Access control Protocols ,Error detection (parity cheek and CRC)
	3rd	Error detection and correction and its different techniques
	4th	Sliding window protocol, stop and wait, go back-N , selective reject
November 2025	1st	Network layer Addressing schemes (logical addressing and address mapping, routing and its techniques (flooding ,shortest path, distance vector)
	2nd	Congestion control in packet switching networks.
	3rd	Network security issues, Introduction to cryptography , symmetric -keys and public -keys authentication and authorization , firewall.
	4th	Revision of syllabus

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LESSON PLAN(2025-26)

Class :   **PGDCA**
Subject :   **PGDCA101: Computer Programming Using C**
Marks: **Maximum Marks=100 (External = 70 Marks Internal Assessment=30)**

Month	Week	Topics
August 2025	4th	Problem definition Steps and features of Problem definition, Algorithm development, Flowchart Symbols in flowchart Program Coding,compilation and debugging ,testing and execution, Types of errors
September 2025	1st	Characteristics and features of c, Identifiers and keywords, Structure of C Program ,data types in c input and output function, type conversion.
	2nd	Operators &Expressions Arithmetic, unary, logical and relational operators, assignment operators
	3rd	Control statements ,Decision making using if, if-else, Nested IF, Else If Ladder switch, break
	4th	continue statement and goto Statement, looping using for, while and do-while statements, nested loops, Assignment-1
October 2025	1st	Library functions, Defining & accessing User defined functions,function prototype and passing arguments to a function,Mid-Term exam
	2nd	Recursion versus iteration. Macro v/s function, Arrays and its Definition, accessing elements, initialization, passing to functions, multi-dimensional arrays
	3rd	Strings & operations of Strings, String Handling through Built-in and User Defined functions
	4th	Functions. Pointers declaration, assignment, Pointer Arithmetic, passing pointer to function pointer arrays, Dynamic Memory Allocation.
November 2025	1st	Introduction to Structure Defining and Initializing Structure, accessing members, nested structures
	2nd	pointer to structures, self-referential structures, Unions: Introduction to Unions and its Utilities
	3rd	File Handling and Storage classes: automatic, register, external and static variables
	4th	Opening and Closing file in C, Modes of File, Reading and Writing data to a file

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LESSON PLAN(2025-26)

Class :   **MDC computer (CMMDC201-01)**
Subject :   **Microsoft PowerPoint with Animation**
Marks: **Maximum Marks=50 (External = 35 Internal Assessment=15)**

Month	Week	Topics
August 2025	4th	Introduction to PowerPoint: Overview, Features & Interface (Ribbon, Slides Pane, Notes). Creating, saving & opening presentations.
September 2025	1st	Slide Management: Adding, deleting, duplicating slides. Slide layouts & themes. Working with Text & objects.
	2nd	Formatting text (Font, Size, Styles).Inserting shapes, icons, SmartArt
	3rd	Advanced Slide Design: Visual Enhancements,Inserting & formatting images, charts & tables.
	4th	Background customization (Colors, Gradients, Pictures). Assignment–1
October 2025	1st	Master Slides & Templates: Using Slide Master for consistent design
	2nd	Custom templates & themes, Mid-Term Exam.
	3rd	Animations in PowerPoint: Entrance, Exit and motions
	4th	Emphasis effects, Motion Paths, Timing adjustments.
November 2025	1st	Advanced Animation Techniques: Trigger animations (On Click, With Previous)
	2nd	Animation Pane for fine-tuning, Slide Transitions: Applying & customizing transitions
	3rd	Sound effects, Duration settings,Creating interactive navigation
	4th	Linking slides, websites, or files. Revision of full syllabus with Q/Ans.

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