

K. M. Govt. College Narwana (Jind)

Week Wise Lesson Plan 2025-26(Odd Semester)

Name: Mohit Assistant Professor of Computer Science

Subject: Problem Solving through C

	August
Week 1	Introduction to C: C Character set, Tokens
Week 2	keywords and identifiers, constants, variables
Week 3	Data types and pre-processors
Week 4	C Operators: Arithmetic, relational, logical, bitwise, unary,
Week 5	Assignment and conditional operators and their hierarchy. Input/Output
	September
Week 1	Statements in C: format specifier, getch, getchar, getche, gets and puts.
Week 2	Formatted input and output using scanf and printf statements
Week 3	Control Statements: Types of control statements, if-else, nested if-else,
Week 4	else-if ladder, switch statement, conditional control statement
Week 5	loops for, while and do while, break, continue and go to.
	October
Week 1	Functions: Library Functions. User Defined Functions,
Week 2	Functions with and without Return Value
Week 3	Functions with and without parameter passing,
Week 4	Parameter Passing: Call by Value, Call by Reference.
Week 5	Call by Pointer
	November
Week 1	Recursion.
Week 2	Enumeration,
Week 3	Structure and Union,
Week 4	Use of Enumerators in Programming
	December
Week 1	Pointers Pointer to a Variable, Pointer to function
Week 2	Pointer to Structure
Week 3	Test and Revision

K. M. Govt. College Narwana (Jind)

Week Wise Lesson Plan 2025-26(Odd Semester)

Name: Mohit Assistant Professor of Computer Science

Subject: Java OOPs Foundation

	August
Week 1	Introduction to Java
Week 2	Structure of Java Program
Week 3	Classes & Objects
Week 4	Data Types & Type Casting
Week 5	Looping Constructs
	September
Week 1	Interfaces Basics
Week 2	Defining Interfaces
Week 3	Implementing and Extending Interfaces
Week 4	Implementing Multiple Inheritance Using Interfaces
Week 5	Basics of Packages
	October
Week 1	Creating and Accessing Packages
Week 2	System Packages, Creating User defined Packages
Week 3	Exception Handling using the Main Keywords of Exception handling
Week 4	Try, Catch, Throw
Week 5	Throws and Finally; Nested try, Multiple catch statements
	November
Week 1	Creating user defined exceptions
Week 2	File Handling Byte Stream, Character Stream, File I/O Basics
Week 3	File Operations
Week 4	AWT and Event Handling: The AWT class Hierarchy
	December
Week 1	Events, Events Sources, Event Classes, Event Listeners
Week 2	Relationship B/w Event Source and Event Listeners, Delegation Event Model
Week 3	Test and Revision

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Week Wise Lesson Plan 2025-26(Odd Semester)

Name: Mohit Assistant Professor of Computer Science

Subject: Basic Concepts of UML

	August
Week 1	Introduction: Object-Orientation, Modeling,
Week 2	Class Modelling: Object, Class, Value & Attributes,
Week 3	Operation & Method, Link & Association
Week 4	Qualified association, Multiplicity
Week 5	Association end name, Ordering,, Generalization & Inheritance,
	September
Week 1	Class Modeling
Week 2	Graphical Structure of Object & Class, Association, Aggregation
Week 3	Abstract Class, Multiple Inheritance, Metadata
Week 4	State Modeling: Events, States, Transition & Conditions, State Diagram,
Week 5	State Diagram. State Modeling: Nested State Diagram, Nested States.
	October
Week 1	System Design: Overview, Estimating Performance
Week 2	Making a reuse plan, Breaking a system into subsystems
Week 3	Identifying Concurrency, Allocation of subsystem,
Week 4	Management of data storage
Week 5	Handling global resources
	November
Week 1	Interaction Modeling: Use Case Models
Week 2	Actors, Use case, Use case diagram
Week 3	Guidelines for use case diagram. Sequence Model: Scenarios
Week 4	Sequence Diagrams, Guidelines for Sequence model.
	December
Week 1	Activity Model: Activities, Branches
Week 2	Initiation & Termination, Concurrent Activities,
Week 3	Test and Revision

K. M. GOVERNMENT COLLEGE NARWANA (JIND)

WEEK WISE LESSON PLAN 2025-26 (ODD SEMESTER)

SUBJECT: SEC OFFICE AND SPREAD SHEET TOOLS CLASS: BA-1ST SEM

ARVIND KUMAR (EXTENSION LECTURER IN COMPUTER SCIENCE)

	AUGUST
Week 1	UNIT-I Operating System - Definition, Functions, Types of Operating System,
Week 2	Basics of Popular Operating Systems, The User Interface, Exploring Computer,
Week 3	Icons, taskbar, desktop, Using Menu and Menu-selection, managing files and folders,
Week 4	Control panel, display properties, add/remove software and hardware,
Week 5	Common utilities. UNIT-II Word Processing - Introduction to Word Processing,
	SEPTEMBER
Week 1	Menus, Creating, Editing & Formatting Document
Week 2	Spell Checking, Printing, Views, Tables, Word Art, Mail Merge, Macros,
Week 3	Inserting hyperlinks, Searching for text,
Week 4	Modifying page setup, Applying document themes,
Week 5	Applying document style sets, Inserting headers and footers
	OCTOBER
Week 1	UNIT-III Spread Sheet: Introduction
Week 2	Elements of Electronics Spread Sheet, Applications
Week 3	Creating and Opening of Spread Sheet,
Week 4	Menus, Manipulation of cells
Week 5	Enter texts numbers and dates,
	NOVEMBER
Week 1	Cell Height and Widths, Copying of cells,
Week 2	Mathematical, Statistical function
Week 3	Financial function, Drawing different types of charts,
Week 4	Sort and Filter Data. UNIT-IV Presentation Software:
	DECEMBER
Week 1	Creating, Modifying and enhancing a presentation,
Week 2	Type of presentation views, Using sound,
Week 3	Animation, Working with Objects, Printing.

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WEEK WISE LESSON PLAN 2025-26 (ODD SEMESTER)

SUBJECT:WEB TECHNOLOGIES CLASS:BSC-5TH SEM

ARVIND KUMAR (EXTENSION LECTURER IN COMPUTER SCIENCE)

	AUGUST
Week 1	UNIT-I Introduction to Internet and World Wide Web (WWW);
Week 2	Evolution and History of World Wide Web, Web Pages and Contents,
Week 3	Web Clients, Web Servers, Web Browsers; Hypertext Transfer Protocol, URLs;
Week 4	Searching, Search Engines and Search Tools. Web Publishing: Hosting website;
Week 5	Internet Service Provider; Planning and designing website;
	SEPTEMBER
Week 1	Web Graphics Design, Steps For Developing website
Week 2	UNIT-II Creating a Website Introduction to Mark up Languages (HTML and DHTML),
Week 3	HTML Document Features& Fundamentals, HTML Elements, Creating Links;
Week 4	Headers; Text styles; Text Structuring;
Week 5	Text color and Background; Formatting text;
	OCTOBER
Week 1	Page layouts, Images; Ordered and Unordered lists; Inserting Graphics;
Week 2	Table Creation and Layouts; Frame Creation and Layouts;
Week 3	Working with Forms and Menus;
Week 4	Working with Radio Buttons; Check Boxes; Text Boxes, HTML5
Week 5	UNIT-III Introduction to CSS (Cascading Style Sheets):
	NOVEMBER
Week 1	Features, Core Syntax, Types, Style Sheets and HTML,
Week 2	Style Rule Cascading and Inheritance, Text Properties, CSS Box Model,
Week 3	Normal Flow Box Layout, Positioning and other useful Style Properties;
Week 4	Features of CSS3. UNIT-IV The Nature of JavaScript:
	DECEMBER
Week 1	Evolution of Scripting Languages, JavaScript-Definition,
Week 2	Programming for Non- Programmers, Introduction to Client-Side Programming,
Week 3	Enhancing HTML Documents with JavaScript. Static and Dynamic web pages.

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WEEK WISE LESSON PLAN 2025-26 (ODD SEMESTER)

SUBJECT:BACK END DEVELOPMENT CLASS:BCA5TH SEM

ARVIND KUMAR (EXTENSION LECTURER IN COMPUTER SCIENCE)

	AUGUST
Week 1	Unit-I Introduction to back-end Development:
Week 2	Overview of backend, Client-server architecture,
Week 3	Introduction to web servers and database
Week 4	Programming Languages and Tools:
Week 5	Introduction to server-side languages (e.g., Node.js, or PHP),
	SEPTEMBER
Week 1	Syntax and semantics of chosen server-side language
Week 2	Unit-II Programming Languages: Version control with Git,
Week 3	Introduction to IDEs (Integrated Development Environments) of chosen language,
Week 4	Writing and executing basic server-side scripts
Week 5	Performance Optimization and Security:
	OCTOBER
Week 1	Caching strategies, Query optimization
Week 2	Unit-III Database Management:
Week 3	Introduction to databases and DBMS (SQL and NoSQL),
Week 4	Designing a database schema,
Week 5	CRUD operations (Create, Read, Update, Delete),
	NOVEMBER
Week 1	Connecting applications to a database
Week 2	Unit-IV Server-Side Frameworks:
Week 3	Overview of popular server-side frameworks (e.g., Express.js, or Laravel),
Week 4	Building a simple application using a framework.
	DECEMBER
Week 1	API Development: RESTful API concepts, Designing and documenting APIs,
Week 2	Authentication and authorization basics
Week 3	Web security best practices (SQL injection, XSS, CSRF)

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WEEK WISE LESSON PLAN 2025-26 (ODD SEMESTER)

SUBJECT:SEC-ADVANCE IT-SKILLS CLASS:BCA-3RD SEM

ARVIND KUMAR (EXTENSION LECTURER IN COMPUTER SCIENCE)

	AUGUST
Week 1	UNIT-I Introduction to Computer: AI based Computers,
Week 2	Evolution of Computers & its applications, Advanced Hardware and Software,
Week 3	importance of AI in Application Software, Systems Software, Utility Software.
Week 4	Graphics Processing Unit, Input devices, Output devices,
Week 5	Computer Memory & storage, Mobile Apps.
	SEPTEMBER
Week 1	UNIT-II Introduction to Operating System: Definition
Week 2	User oriented functions of the Operating system,
Week 3	Different types of Operating Systems,
Week 4	Advanced features of Operating Systems for Mobile Phone and Tablets,
Week 5	Components of User Interface, Status Bar, Tool bar,
	OCTOBER
Week 1	Icons and their movement, Using Shortcuts,
Week 2	Control Panel in Operating System, Adding and removing apps on system.
Week 3	UNIT-III Introduction to Internet: Computer Networks, Network Topologies,
Week 4	Intranet, Features of Internet and Intranet,
Week 5	URL and its components, Web Browsers and their useful tools,
	NOVEMBER
Week 1	A.I based searching tools.
Week 2	UNIT-IV E-mail: Definition of E-mails, Advantages and Disadvantages,
Week 3	Various features in Email account, Trash, Spam, Draft,
Week 4	Scheduled e-mails, replying options,
	DECEMBER
Week 1	Differentiate between sending and forwarding an E-mail,
Week 2	Searching criteria for emails, Limits of size of attaching files with email and their alternatives,
Week 3	Digital Signature.

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Week Wise Lesson Plan 2025-26(5th Semester) Computer Science

DR. sourabh , Extension Lecturer Computer Science(SEC) SE

Week 1	Introduction: Program vs. Software, Software Engineering,
Week 2	Programming paradigms, Software Crisis – problem and causes, Phases in Software development:
Week 3	Requirement Analysis, Software Design
Week 4	Requirement Analysis, Software Design
Week 5	Software Development Process Models: Waterfall, Prototype, Evolutionary and Spiral models
Week 6	Feasibility Study, Software Requirement Analysis and Specifications: SRS, Role of Metrics
Week 7	gathering tools, Organizing and structuring information, Requirement specification
Week 8	validation and Verification, Staffing and personnel planning, team structure, Software configuration management
Week 9	Assignment , SCM ,Structured Analysis and Tools: Data Flow Diagram. Data Dictionary, Decision table, Decision tress, Structured English
Week 10	Entity-Relationship diagrams, Cohesion and Coupling., Gantt chart, PERT Chart, Software Maintenance: Type of maintenance
Week 11	Quality assurance plans, Project monitoring plans, Risk Management. Software testing strategies: unit testing
Week 12	monitoring plans, Risk Management. Software testing strategies: unit testing
Week 13	Assignment , integration testing, Validation testing, System testing
Week 14	Management of Maintenance, Maintenance Process, maintenance characteristics,
Week 15	Management of Maintenance, Maintenance Process, maintenance characteristics,
Week 16	Alpha and Beta testing. Revision: Models, Chart,QAP

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Week Wise Lesson Plan 2025-26(5th Semester) Computer Science

DR. sourabh , Extension Lecturer Computer Science(SEC) Database technology

Week 1	Data, information, records, files
Week 2	Data base management system, component of dbms
Week 3	Dbms function
Week 4	Data and database administrator
Week 5	System architecture
Week 6	Schemas
Week 7	Data independence
Week 8	Models in dbms
Week 9	Entity sets type
Week 10	Keys attributes
Week 11	Integrity constraints
Week 12	ER DIAGRAM
Week 13	SQL MEANING Data types
Week 14	Indexes constraints
Week 15	Relational model
Week 16	normalization

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Week Wise Lesson Plan 2025-26(5th Semester) Computer Science

DR. Jogindr singh , Extension Lecturer Computer Science(SEC)

Network infrastructure and data communication technology

Week 1	Introduction to Data Communication and Computer Networks; ; Uses of Computer for D .
Week 2	Types of Computer Networks and their Topologies; Network Hardware Components
Week 3	Connectors, Transceivers, Repeaters, Hubs, Network Interface Cards and PC Cards
Week 4	Revision
Week 5	Bridges, Switches, Routers, Gateways; Network Software
Week 6	Network Design issues and Protocols Connection-Oriented and Connectionless Services;
Week 7	OSI Reference Model; Networking Models
Week 8	Revision
Week 9	Distributed Systems, Client/Server Model, Peer-to-Peer Mode
Week 10	Web-Based Model and Emerging File-Sharing Model;
Week 11	Assignments
Week 12	Analog and Digital data and signals Bandwidth and Data Rate
Week 13	Capacity, Baud Rate; Transmission Impairment Data Rate Limits;
Week 14	Guided Transmission Media; Wireless Transmission Communication Satellites
Week 15	Switching and Multiplexing; Modems and Modulation techniques;
Week 16	ADSL and Cable Modems; Data Link Layer Design issues;

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Week Wise Lesson Plan 2025-26(3rd Semester) Computer Science

Jogindr singh , Extension Lecturer Computer Science(SEC) linux and shell programming

Week 1	Linux distribution
Week 2	Overview of linux operating aystem
Week 3	Linux Architecture, Feature of linux
Week 4	Accessing Linux
Week 5	Starting and Shutting down system
Week 6	Logging in and Logging out system
Week 7	Comparison of Linux with other operating system
Week 8	Command in linux General Purpose Command ,File oriented command
Week 9	Directory Oriented command Communication Oriented command
Week 10	Process oriented command
Week 11	Regular expression and Filter and linux simple filter
Week 12	WC, DIFF, SORT, UNIQ, GREP
Week 13	Introduction regular expression
Week 14	Linux file inodes, structure and file system
Week 15	Starting and stopping process
Week 16	Vi editor cell variable cell control structure

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Week Wise Lesson Plan 2025-26(B.SC 3rd Semester) Computer Science

SUKHBIR , Extension Lecturer Computer Science(Data Structure)

Week 1	What is data structure, definition of data structure, operation on data structure.
Week 2	Data type vs Data structure, classification of data structure, application of data structure.
Week 3	Performance analysis and measurement (time and space analysis of algorithms average, best, worst case analysis).
Week 4	What is array, array definition and its types, declaration and initialization of one dimensional and two dimensional array.
Week 5	what is string, reading and writing string, function of string:- length, concatenation, substring, insertion, deletion, replacement.
Week 6	Linked list:- introduction, array vs linked list, representation of link lists in memory.
Week 7	Traversing a linked list, insertion, deletion, searching in a link list, type of link list.
Week 8	Stack :- array Representation of stack, link list representation of stack, algorithm for push and pop.
Week 9	Stack : polish notation , postfix evaluation algorithms, infix to postfix conversion, infix to prefix conversion.
Week 10	Recursion, introduction to queue: simple queue.
Week 11	Double queue, circular queue, priority queue.
Week 12	Representation of queues as link list and array.
Week 13	Application of queue, algorithm on insertion and deletion in simple queue and circular queue.
Week 14	Sparse matrix, searching and sorting algorithm.
Week 15	operation on array, algorithm for traversal, selection insertion, deletion.
Week 16	Revision syllabus

K.M Govt. College Narwana(Jind)

Week Wise Lesson Plan 2025-26(BCA 1ST Semester) Computer Science

SUKHBIR , Extension Lecturer Computer Science(FOCS)

Week 1	Computer components, generation of computers, Characteristics and classification of computers, strength and limitations of computer hardware, software, application of computer in various fields.
Week 2	Firmware, memory and its types :- random access , sequential access, shareware, freeware, firmware, free software. Magnetic disk, optical disc, flash memory programming language low level programming language, high level programming language
Week 3	Assembler, compiler , interpreter, Peripheral device:- keyboard , pointing device mouse, trackball, touch panel
Week 4	Joystick, light pen, scanners, monitor, OMR, bar-code reader, hard copy devices, Impact and non – impact printers daisy wheel, Dot matrix
Week 5	Memory system:- concept of bit, byte, word, nibble, storage location and addresses, measuring units of storage capacity, access time, memory hierarchy primary memory:- RAM, ROM, PROM, EPROM.
Week 6	Secondary memory:- types of storage device , magnetic tape, hard disk, optical disk, flash memory, input output device
Week 7	Introduction to operating system, function of operating system, types of operating system, types of operating system.
Week 8	The internet:- introduction to network and internet, history, Electronic mail , attaching a document with e-mail, FTP, TelnetWeb browser ,internet search engine, what is multimedia, Multimedia components:- text, graphics
Week 9	world wide web ,URL, animation, audio, printer classification, laser, ink jet, dot matrix, plotter
Week 10	Video , multimedia application, What is an operating system, types of operating system, user interface
Week 11	Starting windows , using the mouse, using the mouse, start menu, shutting down, customizing the desktop.
Week 12	recycle bin, Using system tools, user account, threats:- physical and non physical threats, virus, worm, trojan, spyware, security mechanism, security awareness, backup and recovery.
Week 13	creating shortcuts on desktop, windows media player, window accessories, Electronic mail:- introduction, advantage, disadvantage, user id password, message components, browser and search engines
Week 14	Number system:- binary number, octal number, decimal number, hexadecimal number, convert all number to each other.
Week 15	control panel, Taskbar, window explorer , creating new folder or file, types of software:- application software, system software.
Week 16	Revision

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Week Wise Lesson Plan 2025-26(1st Semester) Computer Science

SUKHBIR , Extension Lecturer Computer Science(SEC)

Week 1	Operating system:- definition, functions, types of operating system, practical.
Week 2	basic and popular operating system, The user interface, exploring computer, icons. practical
Week 3	Desktop, using menu and menu selection, managing file and folder, practical
Week 4	Control panel, display properties, add / remove software and hardware, common utilities , practical
Week 5	Word processing:- introduction to word processing, menus creating ,editing and formatting, practical
Week 6	Spell checking, printing, views, tables,Copying of cells mathematical , statistical and financial function, practical
Week 7	Word art, mail merge, macros, inserting hyperlinks, searching for text, practical
Week 8	Revision
Week 9	Inserting header and footers, Manipulation of cells:-inter text numbers and dates cell height and widths, practical
Week 10	Spreadsheet:- elements of electronics spreads sheets, applications creating and opening spreadsheet, menus, practical
Week 11	Types of presentation views , using sound ,Drawing different types of charts, sort and filters data, practical
Week 12	Animation , working with object, printing,Presentation software:- creating modifying and enhancing a presentation, practical
Week 13	Resizing and moving pictures , modifying pictures , adding clip art, work with word art, practical
Week 14	Modifying page setup, applying document themes, applying document style sets, practical
Week 15	Revision
Week 16	Practical