

GOVERNMENT COLLEGE FOR WOMEN, HISAR

Lesson Plan July 2025 to November 2026

Name of Teacher: Mr. Amit Bansal/ Mr. Vipin Babbar

Class: - BCom/BA with Major in Geography -1stSem (SEC)

Subjects:-Office Tools (SEC)

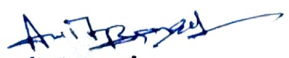
Subject Code: C24SEC103T

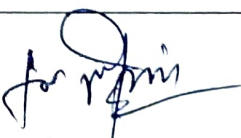
External Exam -35 Marks

Internal Exam :15 Marks

Total Marks -50

Date	Week	Topics to be covered
05.08.2026 to 08.08.2026	Week 1	Operating System - Definition, Functions, Types of Operating System, Basics of Popular Operating Systems,
10.08.2026 to 15.08.2026	Week 2	The User Interface, Exploring Computer, Icons, taskbar, desktop, Using Menu and Menu-selection,
17.08.2026 to 22.08.2026	Week 3	managing files and folders,
24.08.2026 to 29.08.2026	Week 4	Control panel – display properties, add/remove software and hardware, Common utilities.
31.08.2026 to 05.09.2026	Week 5	Word Processing - Introduction to Word Processing, Menus, Creating, Editing &
07.09.2026 to 12.09.2026	Week 6	Formatting Document, Spell Checking, Printing, Views, modifying page setup,
14.09.2026 to 19.09.2026	Week 7	applying document themes, applying document style sets, Inserting headers and footers
21.09.2026 to 26.09.2026	Week 8	Tables, Unit Test
28.09.2026 to 03.10.2026	Week 9	Spread Sheet: Elements of Electronics Spread Sheet, Applications, Creating and Opening of Spread Sheet,
05.10.2026 to 10.10.2026	Week 10	Menus, Manipulation of cells: Enter texts numbers and dates, Cell Height and Widths, copying of cells,
12.10.2026 to 17.10.2026	Week 11	Mathematical, Statistical and Financial function,
19.10.2026 to 24.10.2026	Week 12	Drawing different types of charts,
26.10.2026 to 31.10.2026	Week 13	Sort and Filter Data
11.11.2026 to 14.11.2026	Week 14	Creating Presentation, Type of presentation views.
16.11.2026 to 21.11.2026	Week 15	Using sound, Animation, Working with Objects, and Printing.
23.11.2026 to 28.11.2026	Week 16	Revision
30.11.2026 to 04.12.2026	Week 17	Revision


Amit Bansal
Associate Professor of Computer Science
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GOVERNMENT COLLEGE FOR WOMEN, HISAR

Lesson Plan July 2026 to December 2026

Name of Teacher: Mr. Amit Bansal

Class: BSc-1stSem

Subjects: Computer Programming Fundamentals (Minor Course)

Subject Code: C24MIC102T

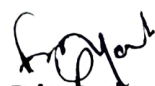
External Exam: 35 Marks

Internal Exam: 15 Marks

Total Marks: 50 Marks

Date	Week	Topics to be covered
05.08.2026 to 08.08.2026	Week 1	Overview of programming concepts,
10.08.2026 to 15.08.2026	Week 2	Computer Languages: Machine Language, Assembly Language, High Level Language
17.08.2026 to 22.08.2026	Week 3	Source code, Compiler, Interpreter, Object Code;
24.08.2026 to 29.08.2026	Week 4	Algorithm
31.08.2026 to 05.09.2026	Week 5	Flow Chart and pseudocode
07.09.2026 to 12.09.2026	Week 6	Basics of problem-solving in programming
14.09.2026 to 19.09.2026	Week 7	Debugging, Error: Types of Error
21.09.2026 to 26.09.2026	Week 8	Data types: integers, floating-point numbers, strings, and Booleans
28.09.2026 to 03.10.2026	Week 9	Variables and constants, Unit Test
05.10.2026 to 10.10.2026	Week 10	Input/output operations
12.10.2026 to 17.10.2026	Week 11	Operators and expressions
19.10.2026 to 24.10.2026	Week 12	Conditional statements: if, else if, else
26.10.2026 to 31.10.2026	Week 13	Loops: while loops
11.11.2026 to 14.11.2026	Week 14	For loops
16.11.2026 to 21.11.2026	Week 15	Control structures: break, continue
23.11.2026 to 28.11.2026	Week 16	Revision
30.11.2026 to 04.12.2026	Week 17	Revision


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GOVERNMENT COLLEGE FOR WOMEN, HISAR

Lesson Plan July 2026 to December 2026

Name of Teacher: Mr. Amit Bansal

Class: BSc-5th Sem

Subjects: Programming in Python (Minor Course)

Subject Code: C24MIC502T

External Exam: 35 Marks

Internal Exam: 15 Marks

Total Marks: 50 Marks

Date	Week	Topics to be covered
20.07.2026 to 25.07.2026	Week 1	Introduction to Python: Python Interpreter
27.07.2026 to 01.08.2026	Week 2	Variable, identifiers and literal, Tokens, keywords, Data Types,
03.08.2026 to 08.08.2026	Week 3	Arithmetic operators, Relational operators, Logical operators, Bitwise operators, Assignment operators
10.08.2026 to 15.08.2026	Week 4	Membership operators, Identity operators. Operator's precedence. Comment, Indentation, Need for indentation
17.08.2026 to 22.08.2026	Week 5	Built-in Functions: input, print, type, round, min and max, pow, help. Type Conversion
24.08.2026 to 29.08.2026	Week 6	Random Number Generation. Mathematical Functions, Assert Statement
31.08.2026 to 05.09.2026	Week 7	Control Statements: if, for, while, break, continue & pass.
07.09.2026 to 12.09.2026	Week 8	Functions: Definition, Call, Arguments – types (Required, optional, default
14.09.2026 to 19.09.2026	Week 9	Global and local Variables, Recursion.
21.09.2026 to 26.09.2026	Week 10	Strings: String as a compound data type. String operations- Concatenation, Repetition, Membership operation, Unit Test
28.09.2026 to 03.10.2026	Week 11	Slicing operation. String methods-count, find, rfind, capitalize, title, lower, upper, swapcase, islower, isupper, istitle, replace, isalpha, isdigit, isalnum.
05.10.2026 to 10.10.2026	Week 12	String Processing examples. Lists: List operations multiplication, concatenation, length
12.10.2026 to 17.10.2026	Week 13	indexing, slicing, min, max, sum, membership operator
19.10.2026 to 24.10.2026	Week 14	List functions append, extend, remove, pop, count, index, insert, sort, reverse
26.10.2026 to 31.10.2026	Week 15	Tuple, Set: Introduction, operations, methods & built-in functions, mutability, manipulation and traversal
11.11.2026 to 14.11.2026	Week 16	Dictionary: Introduction, operations, methods & built-in functions, mutability, manipulation and traversal
16.11.2026 to 21.11.2026	Week 17	Revision


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Lesson Plan July 2026 to December 2026

Name of Teacher: Mr. Amit Bansal

Class: BSc-1stSem

Subjects: Fundamentals of Computer and Programming in C (DSC)

Subject Code: C24COS101T

External Exam: 50 Marks

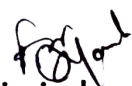
Internal Exam: 20 Marks

Total Marks: 70 Marks

Date	Week	Topics to be covered
05.08.2026 to 08.08.2026	Week 1	Basics of Computers: Definition of a Computer - Characteristics and Applications of Computers – Block Diagram of a Digital Computer – Classification of Computers based on size and working
10.08.2026 to 15.08.2026	Week 2	Central Processing Unit – I/O Devices. Storage: Primary, Auxiliary and Cache Memory – Memory Devices.
17.08.2026 to 22.08.2026	Week 3	Software, Hardware, Firmware. Operating System – Definition and Functions of an Operating System – MS-DOS – MS Windows
24.08.2026 to 29.08.2026	Week 4	Desktop, Computer, Documents, Pictures, Music, Videos, Recycle Bin, Task Bar – Control Panel.
31.08.2026 to 05.09.2026	Week 5	C Programming Fundamentals: Keywords, Variables and Constants, Structure of a C Program,
07.09.2026 to 12.09.2026	Week 6	Input/Output. Operators & Expressions: Arithmetic, Unary, Logical. Bit-wise, Assignment & Conditional Operators
14.09.2026 to 19.09.2026	Week 7	Decision Making: Decision making using if...else. Else If Ladder; Switch, break. Continue and goto statements.
21.09.2026 to 26.09.2026	Week 8	Loop Control Structure: While and do-while, for loop and Nested for loop, Decision using switch, break and continue statements. Unit Test
28.09.2026 to 03.10.2026	Week 9	Functions: Introduction, using functions – Function declaration/ prototype – Function definition function call – return statement
05.10.2026 to 10.10.2026	Week 10	Passing parameters, Recursive functions , Call by Value and Call by Reference
12.10.2026 to 17.10.2026	Week 11	Arrays: Introduction, Declaration of Arrays, Accessing elements of the Array – Storing Values in Array, Passing array element to a function
19.10.2026 to 24.10.2026	Week 12	One dimensional array -declaration, initialization, Accessing one dimensional array, Two dimensional Arrays-declaration, initialization, Accessing two dimensional arrays.
26.10.2026 to 31.10.2026	Week 13	Strings: Introduction, String and Character functions, String Operations using String functions- strcat() , strcmp() , strcpy() , strlen().
11.11.2026 to 14.11.2026	Week 14	Pointers: Declaring Pointer Variable, Pointer Expressions and Pointer Arithmetic, Passing Arguments to Functions using Pointers. Dynamic Memory Allocation: malloc(), calloc(), realloc(), free() functions
16.11.2026 to 21.11.2026	Week 15	Structures and Unions: Declaration of structures, Structure Initialization, Accessing structure members, Arrays of structure, Nested structures, Structure with pointers, Union
23.11.2026 to 28.11.2026	Week 16	Revision
30.11.2026 to 04.12.2026	Week 17	Revision


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GOVERNMENT COLLEGE FOR WOMEN, HISAR

Lesson Plan July 2026 to November/December 2026

Name of Teacher: Vipin Babbar

Class: - B.Sc Physical Science 3rd Sem

Subject:- Database Management sSstem (TH)

Subject Code:- C24COS301T

External Marks - 50

Internal Marks-20

Total Marks -70

Date	Week	Topics to be covered
01.08.2026 to 08.08.2026	Week 1	Basic Concepts – Data, Information, Records and files. Traditional file –based Systems-File Based Approach-Limitations of File Based Approach,
10.08.2026 to 15.08.2026	Week 2	Database Approach-Characteristics of Database Approach, Database Management System (DBMS), Components of DBMS Environment,
17.08.2026 to 22.08.2026	Week 3	DBMS Functions and Components, Advantages and Disadvantages of DBMS. Roles in the Database Environment - Data and Database Administrator, Database Designers, Applications Developers and Users.
24.08.2026 to 29.08.2026	Week 4	Database System Architecture – Three Levels of Architecture, External, Conceptual and Internal Levels, Schemas, Mappings and Instances.
31.08.2026 to 05.09.2026	Week 5	Data Independence – Logical and Physical Data Independence. Classification of Database Management System, Centralized and Client Server architecture to DBMS.
07.09.2026 to 12.09.2026	Week 6	Data Models: Records- based Data Models, Object-based Data Models, Physical Data Models and Conceptual Modeling.
14.09.2026 to 19.09.2026	Week 7	Entity-Relationship Model – Entity Types, Entity Sets,
21.09.2026 to 26.09.2026	Week 8	Attributes Relationship Types, Relationship Instances and ER Diagrams. Basic Concepts of Hierarchical and Network Data Model
28.09.2026 to 03.10.2026	Week 9	Relational Data Model:-Brief History, Relational Model Terminology,Relational Data Structure, Database Relations, Properties of Relations,
05.10.2026 to 10.10.2026	Week 10	Keys, Domains, Integrity Constraints over Relations, Base Tables and Views.
12.10.2026 to 17.10.2026	Week 11	Relational Database design: functional dependencies, Normal forms (1 NF, 2 NF, 3 NF and BCNF). Decomposition, types of decomposition, properties of decomposition.
19.10.2026 to 24.10.2026	Week 12	SQL: Introduction, Data Types; DDL-Create, Alter and Drop table Commands. DML-SELECT/ FROM/WHERE, INSERT INTO/VALUES, UPDATE/SET/WHERE/ORDER BY/HAVING, DELETE, Commands.
26.10.2026 to 31.10.2026	Week 13	Revision of DBMS Functions and Components, Advantages and Disadvantages of DBMS. Roles in the Database Environment - Data and Database Administrator, Database Designers, Applications Developers and Users.
11.11.2026 to 14.11.2026	Week 14	Basic Concepts of Hierarchical and Network Data Model
16.11.2026 to 21.11.2026	Week 15	Revision of Database Approach-Characteristics of Database Approach, Database Management System (DBMS), Components of DBMS Environment,
23.11.2026 to 28.11.2026	Week 16	Revision of DBMS Functions and Components, Advantages and Disadvantages of DBMS..
30.11.2026 to 04.12.2026	Week 17	Roles in the Database Environment - Data and Database Administrator, Database Designers, Applications Developers and Users

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GOVERNMENT COLLEGE FOR WOMEN, HISAR

Lesson Plan July 2026 to November/December 2026

Name of Teacher: Vipin Babbar

Class: - B.Sc Physical Science 3rd Sem

Subject:- E-Commerce – Minor (TH)

Subject Code:- C24MIC302T

External Marks - 50

Internal Marks- 20

Total Marks - 70

Date	Week	Topics to be covered
01.08.2026 to 08.08.2026	Week 1	Introduction to Internet, Application of Internet,
10.08.2026 to 15.08.2026	Week 2	Uses of Internet, DNS, IP Address, URL, Internet services E-mail, WWW and websites
17.08.2026 to 22.08.2026	Week 3	Communication of Internet, Newsgroups, FTP, Telnet, Other Internet services like Gopher, veronica etc.
24.08.2026 to 29.08.2026	Week 4	Concept of Data and information, Characteristics of Information, Concept of System, Characteristics of System, Information system, Computer Based Information System, Advantages and Disadvantages of CBIS,
31.08.2026 to 05.09.2026	Week 5	Transaction Processing System, Management Information System, Decision Support System , EIS, Expert System, Office Automation System
07.09.2026 to 12.09.2026	Week 6	Internet Practical work, search engine, Communication through Internet.
14.09.2026 to 19.09.2026	Week 7	Introduction to E-Commerce, Elements of E-Commerce, Benefits of E-Commerce, Limitation of E-Commerce, Framework of E-Commerce
21.09.2026 to 26.09.2026	Week 8	E-commerce and WWW, Architectural Framework of E-commerce, E-commerce Application Services, E-Commerce Models B2B, B2C, C2C
28.09.2026 to 03.10.2026	Week 9	research using online sources-survey, research on social networking sites
05.10.2026 to 10.10.2026	Week 10	EDI Introduction, EDI Vs Traditional Method, Benefits of EDI, Drawbacks of EDI, Components of EDI, EDI implementation
12.10.2026 to 17.10.2026	Week 11	Class Test
19.10.2026 to 24.10.2026	Week 12	Practical of EPS and Netbanking
26.10.2026 to 31.10.2026	Week 13	Need of security in E-Commerce, Essential Security Requirement, Security Solutions- Encryption, Digital Signature, Security Certificate, Protocols –SSL, SHTTP, Secure Electronic Transaction security Requirement, SET Components or Entities, Steps of SET Transactions, Advantages of Set
11.11.2026 to 14.11.2026	Week 14	e-governance initiation such as E-disha, digital locker, etc.
16.11.2026 to 21.11.2026	Week 15	Risk of Using Internet, Internet Security Measures – Content Filter, Internet Security Measures – Firewall, Legal Aspects of E-Commerce
23.11.2026 to 28.11.2026	Week 16	Introduction to M-Commerce and its Applications, Advantages and Disadvantages of M-Commerce, Introduction to E-Governance, EdI in Governance, Models of E-Governance, Advantages of E-Governance
30.11.2026 to 04.12.2026	Week 17	Revision of important topics or exams


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GOVERNMENT COLLEGE FOR WOMEN, HISAR

Lesson Plan July 2026 to November/December 2026

Name of Teacher:

Class: - B.Sc Physical Science 5th Sem

Subject:- Operating System (TH)

Subject Code:-

External Marks - 50

Internal Marks- 20

Total Marks - 70

Date	Week	Topics to be covered
20.07.2026 to 25.07.2026	Week 1	Introductory Concepts: Operating system functions .
27.07.2026 to 01.08.2026	Week 2	characteristics, historical evolution of
03.08.2026 to 08.08.2026	Week 3	operating systems,
10.08.2026 to 15.08.2026	Week 4	Real time systems, Distributed systems, Methodologies for implementation of
17.08.2026 to 22.08.2026	Week 5	O/S service system calls, system programs
24.08.2026 to 29.08.2026	Week 6	Process management: Process concepts, Process states and Process Control Block.
31.08.2026 to 05.09.2026	Week 7	CPU Scheduling: Scheduling criteria, Levels of Scheduling,
07.09.2026 to 12.09.2026	Week 8	Scheduling algorithms, Multiple
14.09.2026 to 19.09.2026	Week 9	processor scheduling.
21.09.2026 to 26.09.2026	Week 10	Deadlocks: Deadlock characterization, Deadlock prevention and avoidance,
28.09.2026 to 03.10.2026	Week 11	Deadlock detection
05.10.2026 to 10.10.2026	Week 12	and recovery, practical considerations
12.10.2026 to 17.10.2026	Week 13	Concurrent Processes: Critical section problem, Semaphores,
19.10.2026 to 24.10.2026	Week 14	Classical process co-ordination
26.10.2026 to 31.10.2026	Week 15	problems and their solutions, Inter-process Communications.
11.11.2026 to 14.11.2026	Week 16	Storage Management: memory management of single-user and multiuser operating system,partitioning,
16.11.2026 to 21.11.2026	Week 17	swapping, paging and segmentation, virtual memory,
23.11.2026 to 28.11.2026	Week 18	Page replacement Algorithms,Thrashing
30.11.2026 to 04.12.2026	Week 19	Device and file management: Disk scheduling, Disk structure, Disk management, File Systems:Functions of the system, File access and allocation methods, Directory Systems: Structured Organizations,

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GOVERNMENT COLLEGE FOR WOMEN, HISAR

Lesson Plan July 2026 to November/December 2026

Name of Teacher: Vipin Babbar

Class: - BA-Ist Sem

Subject:- Office Tools (SEC- Th)

Subject Code:- C24SEC103T

External Marks - 35

Internal Marks- 15

Total Marks - 50

Date	Week	Topics to be covered
05.08.2026 to 08.08.2026	Week 1	Windows: Basics of Windows. Windows History, Basic components of windows, icons, types of icons, taskbar
10.08.2026 to 15.08.2026	Week 2	activating windows, using desktop, title bar, running applications, Windows explorer,
17.08.2026 to 22.08.2026	Week 3	managing files and folders, Configuring System devices. Control panel , using windows accessories.
24.08.2026 to 29.08.2026	Week 4	Documentation Using Word - Introduction to Office Automation, Creating & Editing Document, Formatting Document, Auto-text, Autocorrect
31.08.2026 to 05.09.2026	Week 5	Spelling and Grammar Tool, Document Dictionary, Page Formatting
07.09.2026 to 12.09.2026	Week 6	Bookmark, Advance Features of MS-Word-Mail Merge, Macros
14.09.2026 to 19.09.2026	Week 7	Tables, File Management, Printing, Styles, linking and embedding object
21.09.2026 to 26.09.2026	Week 8	Electronic Spread Sheet using Excel - Introduction to MS-Excel, Creating & Editing Worksheet, Formatting and Essential Operations
28.09.2026 to 03.10.2026	Week 9	Formulas and Functions, Charts, Advance features of MS-Excel-Pivot table & Pivot Chart,
05.10.2026 to 10.10.2026	Week 10	Linking and Consolidation,
12.10.2026 to 17.10.2026	Week 11	Database Management using Excel-Sorting, Filtering, Table,
19.10.2026 to 24.10.2026	Week 12	Class test
26.10.2026 to 31.10.2026	Week 13	Validation, Goal Seek, Scenario
11.11.2026 to 14.11.2026	Week 14	Macro
16.11.2026 to 21.11.2026	Week 15	Diwali holidays
23.11.2026 to 28.11.2026	Week 16	Theory VIVA for internal assessment
30.11.2026 to 04.12.2026	Week 17	Theory VIVA for internal assessment
23.11.2026 to 28.11.2026	Week 18	Preparation of practical file for final exam
30.11.2026 to 04.12.2026	Week 19	Presentation using PowerPoint: Presentations, Creating Manipulating & Enhancing Slides, Organizational Charts, Sounds, Inserting Animated Pictures or Accessing through Object

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GOVERNMENT COLLEGE FOR WOMEN, HISAR

Lesson Plan July 2026 to November/December 2026

Name of Teacher: Vipin Babbar
 Class: - B.Sc Life Science -1st Sem
 Subject:- Office Tools (SEC- Th)
 Subject Code:- C24SEC103T

External Marks - 35 Internal Marks- 15 Total Marks - 50

Date	Week	Topics to be covered
05.08.2026 to 08.08.2026	Week 1	Windows: Basics of Windows. Windows History, Basic components of windows, icons, types of icons, taskbar
10.08.2026 to 15.08.2026	Week 2	activating windows, using desktop, title bar, running applications, Windows explorer,
17.08.2026 to 22.08.2026	Week 3	managing files and folders, Configuring System devices. Control panel , using windows accessories.
24.08.2026 to 29.08.2026	Week 4	Documentation Using Word - Introduction to Office Automation, Creating & Editing Document, Formatting Document, Auto-text, Autocorrect
31.08.2026 to 05.09.2026	Week 5	Spelling and Grammar Tool, Document Dictionary, Page Formatting
07.09.2026 to 12.09.2026	Week 6	Bookmark, Advance Features of MS-Word-Mail Merge, Macros
14.09.2026 to 19.09.2026	Week 7	Tables, File Management, Printing, Styles, linking and embedding objec
21.09.2026 to 26.09.2026	Week 8	Electronic Spread Sheet using Excel - Introduction to MS-Excel, Creating & Editing Worksheet, Formatting and Essential Operations
28.09.2026 to 03.10.2026	Week 9	Formulas and Functions, Charts, Advance features of MS-Excel-Pivot table & Pivot Chart,
05.10.2026 to 10.10.2026	Week 10	Linking and Consolidation,
12.10.2026 to 17.10.2026	Week 11	Database Management using Excel-Sorting, Filtering, Table,
19.10.2026 to 24.10.2026	Week 12	Class test
26.10.2026 to 31.10.2026	Week 13	Validation, Goal Seek, Scenario
11.11.2026 to 14.11.2026	Week 14	Macro
16.11.2026 to 21.11.2026	Week 15	Diwali holidays
23.11.2026 to 28.11.2026	Week 16	Theory VIVA for internal assessment
30.11.2026 to 04.12.2026	Week 17	Theory VIVA for internal assessment
23.11.2026 to 28.11.2026	Week 18	Preparation of practical file for final exam
30.11.2026 to 04.12.2026	Week 19	Presentation using PowerPoint: Presentations, Creating Manipulating & Enhancing Slides, Organizational Charts, Sounds, Inserting Animated Pictures or Accessing through Object


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