

GOVERNMENT COLLEGE FOR WOMEN, HISAR

Lesson Plan January 2026 to May 2026

Name of Teacher: Mr. Amit Bansal

Class: - BSc-6th Sem

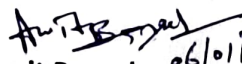
Subjects:-Computer Science (Python Programming)

External Exam -80 Marks

Internal Exam : 20 Marks

Total Marks -100

Date	Week	Topics to be covered
06.01.2026 to 10.01.2026	Week 1	History and features of Python programming Python interpreter, Variable, Identifiers and literal, Token, Keywords Data types,
12.01.2026 to 17.01.2026	Week 2	arithmetic operators,
19.01.2026 to 24.01.2026	Week 3	relational operators, logical operators,
26.01.2026 to 31.01.2026	Week 4	Bitwise operators, Assignment operators, Membership operators, Identity operators, Operator precedence, Comment, Indentation, Need for indentation,
02.02.2026 to 07.02.2026	Week 5	Built-in Functions-input, eval, composition, print, type, round, min and max, pow Type conversion, Random Number Generation, Mathematical functions, Getting help on a function, Assert statement
09.02.2026 to 14.02.2026	Week 6	If conditional statement, for and while statements, break, continue and pass statements, Function definition and Call, Function Arguments- Variable Function Arguments, Default Arguments, Keywords Arguments
16.02.2026 to 21.02.2026	Week 7	Arbitrary Argument Command Line Arguments, Global and Local Variables, Accessing local variable outside the scope, Using global and local variables in same code Using global and local variables with same name.
23.02.2026 to 28.02.2026	Week 8	String as a compound data type, String operations-Concatenation, Repetition, Membership operator, slicing operation, String methods-count, find, rfind, capitalize, title, lower, upper, swapcase, islower, isupper, istitle, replace, isalpha, isdigit, isalnum. String processing examples.
02.03.2026 to 07.03.2026	Week 9	Holi Vacation
09.03.2026 to 14.03.2026	Week 10	List operations- Concatenation, Multiplication, length, indexing, slicing, min, max, sum Membership operator. List function-append, extend, remove, pop, count, index, insert, sort, reverse.
16.03.2026 to 21.03.2026	Week 11	Recursive solutions for problems on Numbers, String and list.
23.03.2026 to 28.03.2026	Week 12	Introduction to classes, method, Class object, Instance object, Method object Class as abstract data type, Date Class,
29.03.2026 to 04.04.2026	Week 13	Access attributes using functions-getattr, setattr, delattr Built-in Class attributes of class object (dict, doc, name_module)
06.04.2026 to 11.04.2026	Week 14	Screen object-Point and Line, box, polygon, circle, arc,
13.04.2026 to 18.04.2026	Week 15	screen object Methods-move_to() Move_by(), rotate_by(), text(). Sound-sound(), play_sound(), stop_sound().
20.04.2026 to 25.04.2026	Week 16	Revision
27.04.2026 to 04.05.2026	Week 17	Revision


Amit Bansal 06/01/2026

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Lesson Plan January 2026 to May 2026

Name of Teacher: Mr. Amit Bansal

Class: - BSc-2nd Sem


Subjects:-Internet and Web Design (Minor Course) -C24MIC202T


External Exam -35 Marks

Internal Exam : 15 Marks

Total Marks -50

Date	Week	Topics to be covered
26.01.2026 to 31.01.2026	Week 1	Introduction to Internet: Internet Evolution and Concept, Internet Vs Intranet, Growth of Internet, Internet Service Provider (ISP) & its Function,
02.02.2026 to 07.02.2026	Week 2	Connectivity- Dialup, Leased line; URL, Protocols.
09.02.2026 to 14.02.2026	Week 3	E-MAIL: Email Basics, Address, Features, Sending & Receiving email, Email Protocols, Labels in Email
16.02.2026 to 21.02.2026	Week 4	Email services providers, Internet chatting - Voice chat, Text chat
23.02.2026 to 28.02.2026	Week 5	World Wide Web (www): History of WWW, Web Browser, Web server, Search Engines, working of Search Engine,
02.03.2026 to 07.03.2026	Week 6	Holi Vacation
09.03.2026 to 14.03.2026	Week 7	Web Protocols (HTTP, FTP, SNMP etc.), TCP/IP layer with protocols.
16.03.2026 to 21.03.2026	Week 8	Web Designing: Steps for developing a Website; contents selection; Webpage, Home page; Domain Names; website publishing.
23.03.2026 to 28.03.2026	Week 9	HTML: Concepts of Hypertext, Versions of HTML, Elements of HTML, Syntax, Tags & Attributes
29.03.2026 to 04.04.2026	Week 10	Head & Body Sections, Inserting Texts, Images, Hyperlinks,
06.04.2026 to 11.04.2026	Week 11	Backgrounds and Color Controls, Different HTML Tags, Table Layout and Presentation
13.04.2026 to 18.04.2026	Week 12	Creating Lists, Use of Font Size & Attributes, List Types and Its Tags
20.04.2026 to 25.04.2026	Week 13	Use of Frames and Forms in Web Pages.
27.04.2026 to 04.05.2026	Week 14	Revision


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Lesson Plan January 2026 to May 2026

Name of Teacher: Mr. Amit Bansal

Class: - BSc-4th Sem

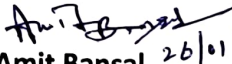
Subjects:- Basics of Programming Using R (Minor Course)- C24VOC402T

External Exam -35 Marks

Internal Exam : 15 Marks

Total Marks -50

Date	Week	Topics to be covered
26.01.2026 to 31.01.2026	Week 1	About R's Environment: Basics of R and RStudio, Setting Variables, Knowing about objects in R, Creating sequences in R, Operators in R, Packages in R, Creating script files in R.
02.02.2026 to 07.02.2026	Week 2	Vectors in R: Type of vectors, Accessing and manipulating vectors, Basic arithmetic operations on numeric vectors,
09.02.2026 to 14.02.2026	Week 3	Finding descriptive summary like mean, median, mod, range, quartiles, standard deviation etc. of numeric vectors, Comparing vectors, sorting vectors, Character vectors and operations on character vectors.
16.02.2026 to 21.02.2026	Week 4	Factors in R: What are factors in R? Useful operations on factors
23.02.2026 to 28.02.2026	Week 5	Arrays and Matrices in R: Arrays in R, Creating, accessing and manipulating matrices, Naming the dimensions of matrices, Arithmetic operations on matrices, Concatenating matrices, various operations on matrices.
02.03.2026 to 07.03.2026	Week 6	Holi Vacation
09.03.2026 to 14.03.2026	Week 7	Data Frames: Creating and accessing data frames, Finding and assigning column and row names to data frames, Binding data frames, various operations on data frames.
16.03.2026 to 21.03.2026	Week 8	Lists: Creating a List, Useful Operations on Lists.
23.03.2026 to 28.03.2026	Week 9	Control Structures: If, If-else, If-else if-else, and switch statements,
29.03.2026 to 04.04.2026	Week 10	Loops in R, Break and next statements.
06.04.2026 to 11.04.2026	Week 11	Functions in R: Defining functions, Calling functions, Scope of variables in functions, Returning values from functions
13.04.2026 to 18.04.2026	Week 12	Input Output in R: Reading and writing txt and CSV files in R.
20.04.2026 to 25.04.2026	Week 13	Visualizing Data in R: Creating bar chart, histograms, polygons and boxplots
27.04.2026 to 04.05.2026	Week 14	Revision


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Lesson Plan January 2026 to May 2026

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

Class: - BA/BCom/BBA/BSc Physical Sciences/BA with Major in Economics -2nd Sem

Subjects:- Office Tools (SEC)- C24SEC103T

External Exam -35 Marks

Internal Exam : 15 Marks

Total Marks -50

Date	Week	Topics to be covered
26.01.2026 to 31.01.2026	Week 1	Operating System - Definition, Functions, Types of Operating System, Basics of Popular Operating Systems,
02.02.2026 to 07.02.2026	Week 2	The User Interface, Exploring Computer, Icons, taskbar, desktop, Using Menu and Menu-selection,
09.02.2026 to 14.02.2026	Week 3	Managing files and folders, Control panel – display properties, add/remove software and hardware, Common utilities.
16.02.2026 to 21.02.2026	Week 4	Word Processing - Introduction to Word Processing, Menus, Creating, Editing &
23.02.2026 to 28.02.2026	Week 5	Formatting Document, Spell Checking, Printing, Views, modifying page setup,
02.03.2026 to 07.03.2026	Week 6	Holi Vacation
09.03.2026 to 14.03.2026	Week 7	applying document themes, applying document style sets, Inserting headers and footers
16.03.2026 to 21.03.2026	Week 8	Tables,
23.03.2026 to 28.03.2026	Week 9	Spread Sheet: Elements of Electronics Spread Sheet, Applications, Creating and Opening of Spread Sheet,
29.03.2026 to 04.04.2026	Week 10	Menus, Manipulation of cells: Enter texts numbers and dates, Cell Height and Widths, copying of cells,
06.04.2026 to 11.04.2026	Week 11	Mathematical, Statistical and Financial function,
13.04.2026 to 18.04.2026	Week 12	Drawing different types of charts, Sort and Filter Data
20.04.2026 to 25.04.2026	Week 13	Creating Presentation, Type of presentation views.
27.04.2026 to 04.05.2026	Week 14	Using sound, Animation, Working with Objects, and Printing

Amit Bansal and Vipin Babbar
26/01/2026

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Lesson Plan Session Jan 2026 to May 2026

Name of Teacher: Vipin Babbar
Class: BSc-6th Sem Physical Science
Paper: Computer Graphics

Date	Week	Topics
06-01-26 to 10-01-26	Week 1	Historical Prospective of computer graphics Basic element of computer graphics Modelling, Rendering, Animation Application of computer graphics
12-01-26 to 17-01-26	Week 2	Input Devices: Mouse, Light Pen, Graphic tablets, Joysticks, Trackball, Flatbed Scanner, Hard Copy Devices: Laser Printer, Flatbed Plotter Video Display Devices:
19-01-26 to 24-01-26	Week 3	Pixel, Resolution, Aspect Ratio Refresh Rate and Interlacing, Cathode Ray Tube
26-01-26 to 31-01-26	Week 4	Flat Panel Display- LCD and Plasma Panel, Raster and Random Scan Display
02-02-26 to 07-02-26	Week 5	Fundamental techniques in graphics: Line generation algorithms- DDA Algorithm, Bresenham's line Generation Algorithm,
09-02-26 to 14-02-26	Week 6	Circle Generation Algorithm - Bresenham's Algorithm, Midpoint circle algorithm,
16-02-26 to 21-02-26	Week 7	Polygon filling algorithm Scan line algorithm,
23-02-26 to 28-02-26	Week 8	Viewing and clipping- Point clipping and line clipping 02/03/26 to 08/03/26 Holi holidays
09-03-26 to 14-03-26	Week 9	Cohen- Sutherland line clipping algorithm Polygon clipping, Sutherland Hodgman algorithm Dimensional Graphics
16-03-26 to 21-03-26	Week 10	Cartesian and homogeneous co-ordinate system Geometric transformations
23-03-26 to 28-03-26	Week 11	Translation, Scaling
30-03-26 to 04-04-26	Week 12	Rotation, Reflection
06-04-26 to 11-04-26	Week 13	Dimensional Graphics: Geometric transformations Translation,
06-04-26 to 11-04-26	Week 14	Scaling, Rotation, Reflection Mathematics of Projections (Parallel & Perspective)
13-04-26 to 18-04-26	Week 15	Revision of Input Devices: Mouse, Light Pen, Graphic tablets, Joysticks, Trackball, Flatbed Scanner, Hard Copy Devices: Laser Printer, Flatbed Plotter Video Display Devices:
20-04-26 to 25-04-26	Week 16	Revision of Fundamental techniques in graphics: Line generation algorithms- DDA Algorithm, Bresenham's line Generation Algorithm,
27-04-26 to 04-05-26	Week 17	Revision of Cohen- Sutherland line clipping algorithm Polygon clipping, Sutherland Hodgman algorithm Dimensional Graphics

Vipin Babbar
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Lesson Plan Session Jan. 2026 to May 2026

Name of Teacher: Vipin Babbar

Class: BSc-4th Sem Physical science with Computer Science

Paper: Computer Networks

Date	Week	Topics
06-01-26 to 10-01-26	Week 1	Components, Example, Network Data Model- Introduction, Features, Components, Example, Differences between Hierarchical Data Model and Network;
12-01-26 to 17-01-26	Week 2	Data Model, Introduction to Data Communication and Computer Networks; Uses of Computer Networks; Types of Computer Networks and their Topologies
19-01-26 to 24-01-26	Week 3	Network Hardware Components: Connectors, Transceivers, Repeaters, Hubs, Network Interface Cards and PC Cards, Bridges, Switches, Routers
26-01-26 to 31-01-26	Week 4	Gateways; Network Software.; Guided and Wireless Transmission Media; Communication, Satellites; Switching and Multiplexing
02-02-26 to 07-02-26	Week 5	Modems and modulation techniques , Unit Test preparation and conduct of unit test
09-02-26 to 14-02-26	Week 6	Data Link Layer Design issues; Error Detection and Correction methods; Sliding Window Protocols:
16-02-26 to 21-02-26	Week 7	One-bit, Go Back N and Selective Repeat; Media Access Control
23-02-26 to 28-02-26	Week 8	ALOHA, Slotted ALOHA, Latest LAN and TELNET Technologies in practical 02/03/26 to 08/03/26 Holi holidays
09-03-26 to 14-03-26	Week 9	CSMA, Collision free protocols; Introduction to LAN technologies
16-03-26 to 21-03-26	Week 10	Ethernet, Switched Ethernet, Fast Ethernet
23-03-26 to 28-03-26	Week 11	Gigabit Ethernet; Token Ring
30-03-26 to 04-04-26	Week 12	Routing Algorithms: Flooding, Shortest Path Routing
06-04-26 to 11-04-26	Week 13	Distance Vector Routing; Link State Routing, Hierarchical Routing; Introduction to Wireless LANs and Bluetooth
06-04-26 to 11-04-26	Week 14	Network Design issues and Protocols; E-Mail and WWW services; Network Security Issues: Security attacks
13-04-26 to 18-04-26	Week 15	Revision of Unit I and Unit II syllabus for exams
20-04-26 to 25-04-26	Week 16	Revision of Unit III and Unit IV syllabus for exams
27-04-26 to 04-05-26	Week 17	Revision and doubt classes

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Name of Teacher: Vipin Babbar

Class: BSc-2nd Sem Physical Science

Paper: Data Structure using C

Date	Week	Topics
06-01-26 to 10-01-26	Week 1	Elementary data organization, Data Structure definition, Data type vs. data structure, Categories of data structures,
12-01-26 to 17-01-26	Week 2	Data structure operations, Applications of data structures, Algorithms complexity and time-space tradeoff, Big-O notation.
19-01-26 to 24-01-26	Week 3	Strings: Introduction, strings, String operations, Pattern matching algorithms
26-01-26 to 31-01-26	Week 4	Arrays: Introduction, Linear arrays, Representation of linear array in memory, Traversal, Insertions, Deletion in an array, Multidimensional arrays, Parallel arrays, Sparse matrix.
02-02-26 to 07-02-26	Week 5	Linked List: Introduction, Array vs. linked list, Representation of linked lists in memory, Traversal, Insertion, Deletion, Searching in a linked list, Header linked list
09-02-26 to 14-02-26	Week 6	, Circular linked list, Two-way linked list, Garbage collection, Applications of linked lists. Algorithm of insertion/deletion in SLL.
16-02-26 to 21-02-26	Week 7	Stack: primitive operation on stack, algorithms for push and pop. Representation of Stack as Linked List and array
23-02-26 to 28-02-26	Week 8	Stacks applications : polish notation, recursion. Introduction to queues, Primitive Operations on the Queues, Circular queue, Priority queue, Representation of Queues as Linked List and array 02/03/26 to 08/03/26 Holi holidays
09-03-26 to 14-03-26	Week 9	Applications of queue. Algorithm on insertion and deletion in simple queue and circular queue
16-03-26 to 21-03-26	Week 10	Trees - Basic Terminology, representation, Binary Trees, Tree Representations using Array & Linked List, Basic operation on Binary tree,
23-03-26 to 28-03-26	Week 11	Traversal of binary trees:- In order, Preorder & post order,
30-03-26 to 04-04-26	Week 12	Applications of Binary tree. Algorithm of tree traversal with and without recursion
06-04-26 to 11-04-26	Week 13	Introduction to graphs, Definition, Terminology, Directed, Undirected & Weighted graph, Representation of Graphs. and revision
06-04-26 to 11-04-26	Week 14	Revision of Arrays: Introduction, Linear arrays, Representation of linear array in memory, Traversal, Insertions, Deletion in an array, Multidimensional arrays, Parallel arrays, Sparse matrix.
13-04-26 to 18-04-26	Week 15	Revision of Circular linked list, Two-way linked list, Garbage collection, Applications of linked lists. Algorithm of insertion/deletion in SLL.
20-04-26 to 25-04-26	Week 16	Revision of Trees - Basic Terminology, representation, Binary Trees, Tree Representations using Array & Linked List,
27-04-26 to 04-05-26	Week 17	Revision and doubt classes

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