MCM DAV College for Women, Sector 36-A, Chandigarh Monthly Teaching Plans (Odd & Even Semesters) Session: 2024-25

Name of the Teacher: Dr. Ritika Bansal & Ms. Komal Rathee

Department: Computer Science and Applications

Class: BCA-I (1st Semester) Section (s): A & B

Subject: Introduction to Web Technologies (BCA-101)

S.No.	Da (Mon		Topics to be Covered	Academic Activity	
	From	То		Undertaken*	
1.	Start of the semester	31 Aug, 2025	UNIT-I Web Terminology: WebServer; Web Client/ Browser, Understanding how a Browser communicates with a WebServer, Internet, Intranet, Extranet, WWW, URL. Introduction to HTML: Structure of an HTML program, Paragraph Breaks, Line Breaks; Emphasizing Material in a Web Page (Heading Styles, Drawing Lines); Text Styles (Bold, Italics, Underline); Other Text Effects (Centering (Text, Images etc.); Lists: Unordered List, Ordered Lists, Definition lists; Adding Images: Img element using Border, Width, Height, Align, ALT Attributes; Tables: Caption Tag, Width, Border, Cell padding, Cell spacing, BGCOLOR, COLSPAN and ROWSPAN Attribute	PPT, Lecture method, interactive sessions, PDF, Online sources, Practical Questions, Doubt sessions, Assignments.	
2.	1 Sep, 2025	30 Sep, 2025	UNIT-II Linking Documents: Anchor tag, External Document References, Internal Document References and Image Maps Frames: understanding frames, creating frames, Targeting Named Frames Cascading style sheets (CSS): Style tag, Link tag, Types of CSS: In-Line, Internal, External Forms: Attributes of Form element, Input element: Text Element, Password, Button, Submit Button, Reset Button, The Checkbox, Radio, TextArea, Select and Option.	PPT, Lecture method, PDF, Online sources, Practical demonstration on developing a website, Doubt sessions, Assignments.	
3.	1 Oct, 2025	31 Oct, 2025	Java Script: Features, tokens, data types, variables, operations, control constructs, strings arrays, functions, core language objects, client side objects, event handling. Applications related to client side form validation. Other Built-In Objects in JavaScript: The String Object, The Math Object, and The Date Object; User Defined Objects: Creating a User Defined Object, Instances, Objects within Objects		
5.	1 Nov, 2025	Till the end of semester	UNIT-IV Creating Web Pages using Dreamweaver: Introduction to Dreamweaver, Understanding Workspace Layout, Managing Websites, Creating a Website, Using Dreamweaver Templates, Adding New WebPages, Text and Page Format, Inserting Tables, Lists, Images, Adding Links.	PPT, Lecture method, Practical demonstration on developing a website, Doubt sessions, Assignments.	

Name of the Teacher: Ms. Anupreet Kalsi Department: Computer Science and Applications

Class: BCA-I (1st Semester) Section (s): A & B Subject: Fundamentals of Mathematical Statistics (BCA-102)

S.No.		Date onthly) To	Topics to be Covered	Academic Activity
1.	_	31 Aug, 2025	Basic Statistics: Types of Statistics, Different Statistical Techniques, Steps in Statistical Investigation, Uses and Limitations of statistics, Collection of Data: Sources of collecting primary and Secondary Data. Limitations of Secondary Data, Criteria of evaluating secondary data, Organization of data, Graphs of Grouped Frequency Distribution, Tabulation of Data, Parts of Table; Measures of Central Tendency: Kinds of measures of central tendency (statistical averages or averages): Arithmetic Mean: Simple Arithmetic Mean, Methods of calculating Simple Arithmetic Mean, Arithmetic Mean in case of Individual Series, Discrete series and continuous series, Weighted Arithmetic Mean, Combined Arithmetic Mean. Geometric Mean: Simple Geometric Mean in case of Individual Series, Discrete series and continuous series, Weighted Geometric Mean, Combined Geometric Mean. Harmonic Mean: Simple Harmonic Mean, Methods of calculating Simple Harmonic Mean, Harmonic Mean, Harmonic Mean, Harmonic Mean, Methods of calculating Simple Harmonic Mean, Harmonic Mean, Harmonic Mean, Combined Harmonic Mean, Combined Harmonic Mean.	Undertaken* Lecture method, interactive sessions, PDF, Online sources, Practical Questions, Doubt sessions, Assignments.
2.	1 Sep, 2025	30 Sep, 2025	Median: Methods of Calculating Median in case of Individual, Discrete series and continuous series; Partition Value: Quartile, Quintiles, Hexiles, Septiles, Octiles, Deciles, Percentiles Mode: Methods of Calculating Mode in case of Individual Series, Discrete series and continuous series Range: Computation of Range, Inter Quartile Range, Computation of Inter Quartile Range, Percentile Range and Computation of Percentile Range. Mean Deviation: Computation of Mean Deviation, Standard Deviation, Calculation of Standard Deviation, Variance, Calculation of Standard Deviation for individual Series, Discrete Series and Continuous Series, Coefficient of Standard Deviation and coefficient of variation, Combined Standard Deviation, Correcting incorrect Standard Deviation.	meth od, PDF, Online sources, Practical Questions, Doubt sessions,
3.	1 Oct, 2025	31 Oct, 2025	Correlation Analysis: Correlation Analysis: Definition, Types of Correlation: Positive, Negative, Simple, Multiple, Partial, Total, Linear and Non-Linear. Need of Correlation Analysis, Correlation and Causation, Techniques for Measuring Correlation: Scatter Diagram Method, Graphic Method, Karl Pearson's Coefficient of Correlation: Correcting incorrect coefficient of correlation, calculating Karl Pearson's coefficient of correlation in case of grouped series, Probable Error, Coefficient of Determination, Spearman's coefficient of Correlation (Rank correlation): Calculation of Correct Coefficient of rank correlation, Difference between Rank Coefficient and Karl Pearson's coefficient of coefficient, Coefficient of concurrent deviation.	Lecture meth od, PDF, Onlin e sources, Practical Questions, Doubt sessions, Assignments.
5.	1 Nov, 2025	Till end of semester	Regression Analysis (Linear Regression): Definition, Difference between Correlation and Regression, Types of Regression Analysis: Simple, Multiple, Partial, Total, Linear and Non-Linear, Objectives of Regression Analysis, Methods of obtaining regression analysis: Regression Lines, Regression Equations. Methods of obtaining regression equations: Normal Equations and Regression Coefficient, Properties of Regression Coefficient, Standard Error of Estimate, Regression Coefficient in case of Grouped Data, Uses of Regression Analysis and Limitations of Regression Analysis.	Lecture method, PDF, Online sources, Practical Questions, Doubt sessions, Assignments.

Section-(s) A & B

S.No.	Date (Mont		Topics to be Covered	Academic Activity
3.140.	From	То	Topics to be covered	Undertaken*
1.	Start of the semester	31 Aug, 2025	Programming Process: Steps in developing a program, Data Flow Diagram, Algorithm development, Flowchart, Testing and Debugging. Fundamentals of C Languages: History of C, Character Set, Identifiers and Keywords, Constants, Types of C Constants, Rules for Constructing Integer, Real and character Constants, Variables, Data Types, rules for constructing variables. Operators and Expressions: C Instructions, Arithmetic operators, Relational operators, Logical operators, Assignment Operators, Type Conversion in Assignments, Hierarchy of Operations, Standard and Formatted Statements, Structure of a C program, Compilation and Execution. Decision Control Structure: Decision making with IF-statement, IF-Else and Nested IF-Else, The else if Clause. Loop Control Structure: While and do-while, for loop and Nested for loop, Case Control Structure: Decision using switch, The goto statement.	PPT, Lecture Method, Assignments, Online Videos, Practical demonstration.
2.	1 Sep, 2025	30 Sep, 2025	Functions: Library functions and user defined functions, Global and Local variables, Function Declaration, Calling and definition of function, Methods of parameter passing to functions, recursion, Storage Classes in C. Arrays: Introduction, Array declaration, accessing values in an array, initializing values in an array, Single- and Two-Dimensional Arrays, initializing a 2-Dimensional Array, Memory Map of a 2- Dimensional Array, Passing array elements to a function: Call by value and call by reference, Arrays of characters, Insertion and deletion operations, Searching the elements in an array, Using matrices in arrays, Passing an Entire Array to a Function.	PPT, Lecture Method, Assignments, Online Videos, Class Test, Practical demonstration.
3.	1 Oct, 2025	31 Oct, 2025	Pointers: Pointer declaration, Address operator "&", Indirection operator "*", Pointer and arrays, Pointers and 2-Dimensional Arrays, Pointer to an Array, Passing 2-D array to a Function, Array of Pointers. String Manipulation in C: Declaring and Initializing string variables, Reading and writing strings, String Handling functions (strlen(), strcpy(), strcmp(), strcat()).	PPT, Lecture Method, Class Test, Assignments, Online Videos, Practical demonstration.
5.	1 Nov, 2025	Till the end of semester	Structures and Unions: Declaration of structures, Structure Initialization, Accessing structure members, Arrays of structure, Nested structures, Structure with pointers, Union. Files in C: Introduction, Opening and Closing files, Basic I/O operation on files.	PPT, Lecture Method, Class Test, Assignments, Online Videos, Practical demonstration.

Name of the Teacher/s- Ms. Anupreet Kalsi & Ms. Aashita Jain Department: Department of Computer Science & Applications

Class: BCA 1 (1st Semester) Section (s): A & B

Subject: Computer Fundamentals and Personal Computing Software(SEC) (BCA-106)

	Date			Academic
S.No.	(Mont From	niy) To	Topics to be Covered	Activity Undertaken*
1.	Start of the semester	31 Aug, 2025	Computer Appreciation: Introduction to Computers Characteristics of Computer, Functional Units of Computer System: CPU, Registers, System Bus, Main Memory Unit, Cache Memory, Inside a Computer SMPS, Motherboard, Ports, and Interfaces Expansion Cards, Ribbon Cables, Memory Chips, Processors, Devices: Input and Output Devices, Keyboard, Mouse, Joystick, Scanner, OCR, OMR, Barcode Reader, Web Camera, Monitor, Printer, Plotter, Types of Software, System and Application Software Memory: Primary, Secondary, Auxiliary Memory, RAM, ROM, Cache Memory, Hard Disk, Optical Disks, Data Representation, Bit, Byte, Binary, Decimal, Hexadecimal, and Octal Systems Understanding Graphical User Interface, Using Windows: Booting Process, Fundamentals of Windows, Types of Windows, Anatomy of Windows, Icons, Recycle Bin, Operations on Folders, Registry of Windows, Basics, Editing,	PPT, Lecture Method, Assignments, Online Videos.
2.	1 Sep, 2025	30 Sep, 2025	Word Processing Package: Opening, saving, and closing an existing document; Renaming and deleting files; Using styles and templates: Introduction to templates and styles; Applying, modifying, and creating new (custom) styles; Using a template to create a document, Creating a template, Editing a template, Organizing templates, Examples of styles use, Changing document views, Moving quickly through a document, Working with text: Select, cut, copy, paste, find, and replace, Inserting special characters, Setting tab stops and indents, Checking spelling and grammar, Autocorrect, Using built-in language tools, Word completion, Autotext, Formatting Text: Using Styles, Formatting Paragraphs, Formatting Characters, Auto-Formatting, Creating Lists, Formatting Pages, Using Layout Methods, Creating Headers and Footers, Numbering Pages, Changing Page Margins, Adding Comments to a Document, Creating a Table of Contents, Creating Indexes and Bibliographies, Printing a Document, Using Mail Merge, Tracking changes to a Document, Using Fields, Linking to another part of a Document, Using Master Documents, Creating Fill-in Forms,	Practical demonstrations, Lecture Method, Assignments
3.	1 Oct, 2025	31 Oct, 2025	Spreadsheet Package: Introduction to Spreadsheets, Sheets and Cells, Opening and Saving Spreadsheet Files, Working with Sheets, Inserting New Sheet, Deleting and Renaming Sheets, Viewing a Spreadsheet, Freezing Rows and Columns, Splitting Screen, Entering Data: Cell Referencing, Formatting Cells, Entering Numbers, Entering Numbers as Text, Entering Formulae, Entering Date and Time, Deactivating, Automatic Changes, Speeding Up Data Entry, Using Fill Tool, Fill Series, Defining Fill Series, Validating Cell Contents, Formatting Data, Formatting Text, Numbers,	Practical demonstrations, Lecture Method, Assignments

			,	
			Cells, Autoformatting Cells and Sheets, Defining New	
			Autoformat, Using Conditional Formatting, Data, Sorting	
			Records, Printing a Spreadsheet Document, Using Print	
			Ranges, Page Formats, Inserting Page Breaks, Headers and	
			Footers, Working with Graphs and Charts, Creating	
			Embedded Chart, Formatting Chart, Changing Chart Types,	
			Adding Titles, Legends and Gridlines, Printing Charts,	
			Adding Database Functions, Defining Database Ranges,	
			Sorting, Filtering and Grouping Database Ranges, Evaluating	
			Data: Using Data Pilot, Functions and Macros: Using and	
			Editing Existing Macro, Creating Macros, Recording Macros,	
			Running Macros	
5.	1 Nov, 2025	Till the end of	Presentation Packages: Introduction to Presentation- Opening	PPT, Lecture
		semester	New Presentation, Parts of Main Window, Different	Method,
			Presentation Templates, Setting Backgrounds, Selecting	Assignments,
			Presentation Layouts.Creating a Presentation- Setting	Practical
			Presentation Style, Adding Text to the Presentation. Formatting	demonstrations,
			a Presentation- Adding Style, Colour, Gradient Fills, Arranging	Seminar.
			Objects, Adding Header and Footer. Slide Background, Slide	
			layout, Adding Graphics to the Presentation Inserting Pictures,	
			Movies, Tables, etc. into Presentation, Drawing Pictures using	
			Draw.Adding Effects to the Presentation Setting Animation	
			and Transition Effect. Printing Handouts Generating Standalone	
			Presentation Viewer.	

S.No.	Dat (Mont		Topics to be Covered	Academic Activity
3.110.	From	То	Topies to be covered	Undertaken*
1.	Start of the semester	31 Aug, 2025	An Overview of E-Commerce: Definitions: E-commerce, E-business, difference between E-commerce and E-business, Problems with Traditional business systems, Aims of E-commerce, Types of E-commerce: B2B, B2C, C2C, B2G, G2H, G2C, Operational & Strategic benefits of E-commerce, Issues & Challenges in Ecommerce. Electronic Data Interchange (EDI): Definition; Traditional versus EDI enabled system for document exchange; Components of EDI: EDI Standards, EDI Software, Communication Networks; EDI Message Structure; EDI Notification Structure; EDI in India; EDI enabled procurement process; Benefits of EDI: Direct Benefits, Strategic Benefits; EDI Implementation issues; Legal Aspects.	PPT, Lecture Method, Assignments, Online Videos
2.	1 Sep, 2025	30 Sep, 2025	Web based E-Commerce: Definition; Need for web based business, Steps in setting up business on Internet: Selection & registration of domain name, Website development: Planning a website, Steps for creating a website, Elements of a webpage, web authoring tools, Hosting a website: Website hosting considerations. Online Promotion tools & techniques: Getting links to your site, banner advertisements & measuring advertisement effectiveness; Web Traffic Analysis: Hits, View pages, Visits and Other web-reporting tools, various measures, What is Search Engine optimization	PPT, Lecture Method, Assignments, Online Videos, Class Test.
3.	1 Oct, 2025	31 Oct, 2025	Electronic Payment Systems: E-cash: Purchasing & using of e-cash; Electronic Purses their loading with cash and use; E-cheque payment system; Online Third Party Verified Payment System through Credit & Debit Cards; ATM based cash disbursement system; Electronic Bill Payment System; Inter bank clearing system Mobile Commerce: Definition, Benefits of Mobile Commerce, Issues in Mobile Commerce, Mobile Commerce Framework	PPT, Lecture Method, Class Test, Assignments, Online Videos, Practical demonstration.
5.	1 Nov, 2025	Till the end of semester	Applications of E-Commerce & Case Studies: Applications of e-commerce, Case studies in Retailing, Banking and e-governance; Cyber Crimes: Types, Cyber Forensics, Cyber crimes and IT Act - 2000. Revision of the syllabus	PPT, Lecture Method, Class Test, Assignments, Online Videos

Name of the Teacher- Ms. Anupreet Kalsi

Department: Department of Computer Science & Applications Class: BCA-I (2nd Semester) Section (s): A & B

Subject: Computer Organization (BCA-201)

	Date			Academic
S. No.	(Month From	To	Topics to be Covered	Activity
				Undertaken*
1.	Start of semester	31 Jan, 2026	Number System and its conversion: Binary, Octal, Decimal,	PPT, Lecture method, PDF,
			Hexadecimal; Binary Arithmetic: addition, subtraction, multiplication, division; 8 Bit Signed Arithmetic: signed magnitude, 1's and 2's complement method; Information Representation: fixed and floating point representation; Computer codes: types of codes, BCD, Excess-3, Gray Code, alphanumeric codes – ASCII, EBCDIC, Error detecting and correcting codes- parity, block parity, checksum, CRC and hamming codes.	Doubt sessions,
2.	1 Feb, 2026	28 Feb, 2026	UNIT - II	PPT, Lecture
	2.55,252		Logic gates and their characteristics: fan in/ fan out, propagation delay, power dissipation, noise margin, IC logic families; Basic Boolean Algebra: Boolean laws, duality principle, Demorgan theorem, minterm and maxterms, standard form, conversion to canonical form, simplification of circuit design by solving boolean expressions and Karnaugh map; Universal Gates: conversion of circuits in terms of NAND or NOR only.	method, PDF, Online sources, Doubt
3.	1 March,	31 March, 2026	UNIT-III	PPT, Lecture
	2026		adden Conial C is hit Donallal Adden TA vision toro IIAa.	method, PDF, Online
			Subtractors: Half and Full Subtractor (n bit FS by 1's and 2's	sources, Doubt sessions,
			Complement); Code Convertors: Decoder and Encoder; Chip Cascading: 4x16, 5x32 decoder using 2x4 and 3x8 decoders;	Assignments
			Multiplexer, Demultiplexer and their applications.	
4.	1 April, 2026	Till End of		PPT, Lecture
		Semester	Sequential Circuit Design – Flip Flops: Bistable circuit, SR FF,	method, PDF, Online
			edge triggered with preset & clear, D Type FF, propagation delay, setup & hold time, JK FF, avoidance of race around	sources, Doubt
			condition in JK M/S FF, Toggle FF; Working of Register and	Sessions,
			Shift Registers : SISO, SIPO, PISO, PIPO ; Counters : Asynchronous n bit counter, Up Down counter, Synchronous	
			counter, applications and comparison.	

Name of the Teacher: Dr. Ritika Bansal & Ms. Komal Rathee

Department: Computer Science and Applications

Class: BCA-I (2nd Semester) Section (s): A & B

Subject: Introduction to Artificial Intelligence and Data Science (BCA-202)

S.No.	Date (Mont		Towing to be Covered	Academic Activity	
S.NO.	From	To	Topics to be Covered	Undertaken*	
1.	Start of	31 Jan, 2026	UNIT-I		
	semester		Introduction to Artificial Intelligence (AI): Definition, Types of	PPT, Lecture	
			AI, History of AI, Applications of AI in healthcare, education	method, interactive	
			and agriculture, Introduction to key technologies of AI:	sessions, PDF,	
			Machine Learning, Deep Learning, Natural Language	Online sources,	
			Processing (NLP), Computer Vision, Robotics; Ethical issues	Practical Questions,	
			and Future of AI. Problem Solving: AI problems, Agents and	Doubt sessions,	
			Environments, Structure of Agents.	Assignments.	
2.	1 Feb, 2026	28 Feb, 2026	UNIT-III	PPT, Lecture	
		Managing Data with Spreadsheet Software:Creating a		method,	
				PDF, Online	
			advanced filtering, defining and grouping database ranges,	sources, Practical	
			applying data tools like data validation, removing duplicates,	demonstration,	
			text to columns, Flash fill; Managing data using Math,	Doubt sessions,	
			statistical, Trigonometric, String/Text, Date and Time, logical	Assignments.	
			and Database functions, Nested functions.		
3.	1 March, 2026	31 March, 2026	UNIT-IV	Lecture method,	
			Data Visualization, Searching and Summarizing using	Online sources,	
			Spreadsheet Software: Understanding Chart types, Creating	PDF, Practical	
			Embedded Charts, formatting Charts: Changing Chart types,	demonstration,	
			adding Titles, Legends and Gridlines, Printing Charts,	Assignments, Case	
			searching data using HLOOKUP and VLOOKUP, summarizing	Study, Project	
			data using pivot table, analyzing data using What-if Analysis: goal seek, scenario manager and data Table.	Work, Peer	
	_			Learning.	
5.	1 April, 2026	Till end of	UNIT-II	PPT, Lecture	
		semester	Data Science:Introduction to Data Science, evolution and	method, Practical	
			need for Data Science, Types of Data, Data Science	demonstration,	
			Applications in Various Fields, Data Science Life Cycle or	Doubt sessions,	
			Project Stages, Data collection, Data Pre-Processing	Assignments.	
			Overview – Data Cleaning, Data Integration and		
			Transformation, Data Reduction – Data Discretization, Data		
			Storage and management, careers in Data Science.		

Name of the Teacher/s- Dr. Ritika Bansal

Department: Department of Computer Science & Applications

Class: BCA 1 (2nd Semester) Section (s): A & B

Subject: Object Oriented Programming using C++ (BCA-203)

S.		Date onthly)	Topics to be Covered	Academic Activity Undertaken*
No	From	To		Undertaken '
1.	Start of Semester	31 Jan, 2026	Principles of Object-Oriented Programming (OOP): Introduction to OOP, Difference between OOP and Procedure Oriented Programming; Concepts: Object, Class, Encapsulation, Abstraction, Polymorphism and Inheritance, Applications of OOP. Special operators: scope resolution operator, Member Dereferencing operators, Memory management operators, Manipulators and Type cast operator. Structure of a C++ Program and Classes and Objects: Class Declaration: Data Members, Member Functions, Private and Public members, Creating Objects, accessing class data members, Accessing member functions; Class Function Definition: Member Function definition inside the class declaration and outside the class declaration.	Lecture Method, PPT.
2.	1 Feb, 2026	28 Feb, 2026	Friend function, inline function, Static data members, Function Overloading, Arrays within a class. Arrays of Objects; Objects as function arguments: Pass by value, Pass by reference, Pointers to Objects. Constructors: Declaration and Definition, Types of Constructors, (Default, Parameterized, Copy Constructors). Destructors: Definition and use. Operator Overloading: Concept of Operator Overloading, Overloading unary and binary operators.	Lecture Method, Class test, practical demos, Sample programs discussion
3.	1 March, 2026	31 March, 2026	Inheritance: Extending Classes Concept of inheritance, Base class, defining derived classes, Visibility modes: Public, Private, Protected; Types of Inheritance: Single inheritance: Privately derived, publicly derived; Making a protected member inheritable, multilevel inheritance, multiple Inheritance and ambiguity of multiple inheritance, Hierarchal Inheritance, Hybrid, Nesting of classes. Polymorphism: Definition, Application and demonstration of Data Abstraction, Encapsulation and Polymorphism, Static and Dynamic Polymorphism, Virtual Functions, pure virtual functions.	
4.	1 April 2026	Till end of semester	Exception Handling: Definition, Exception Handling Mechanism: Throwing mechanism and Catching Mechanism, Rethrowing an Exception File Processing: Opening and closing of file, Binary file operations, structures and file operations, classes and file operations, Random file processing.	Lecture Method, Class test, PPT, practical demos, Group revisions, attempting multiple choice questions, preparing for viva voce.

Name of the Teacher/s- Ms. Anupreet Kalsi & Ms. Aashita Jain Department: Department of Computer Science & Applications

Class: BCA 1 (2nd Semester) Section (s): A & B

Subject: Desktop Publishing using GIMP(SEC) (BCA-206)

S. No		Date onthly)	Topics to be Covered	Academic Activity Undertaken*
INO	From	To		Olidertakeli
1.	Start of Semester	31 Jan, 2026	Introduction to GIMP: Downloading and Installing GIMP, Working with GIMP's Interface, Toolbox, Windows and Menus in GIMP, Dockable Dialogs or DockablePanels, Images and Canvases. Basic Computer Graphics: Digital Images vs. Traditional Photographs, Raster Graphics vs. Vector Graphics, , File Formats, Image basics, Color Depth, Color Spaces and Color Modes, Image Compression, Image resolution, Checking image resolution in GIMP, Resolution for Printed Images, Saving a JPG, PNG, PSD, and TIF File in GIMP, Saving	Lecture Method, PPT, practical demonstrations
2.	1 Feb, 2026	28 Feb, 2026	(Exporting) and Reducing JPG File Size. Working with Files; Opening Files, Working in the Image Window, Copying and Pasting, Saving Files. Working with Images: Selection Tools, Image Tools, Transform Tools, Straightening or Rotating an Image, Cropping an Image, Changing the Size of an Image, Paint Tools, Color Tools, Drawing in GIMP; Tools for Drawing, Drawing with Selections, Drawing Freely,	assignments
3.	1 March, 2026	31 March, 2026	Fixing Problems in Images; Analyzing Your Colors with Info Tools, Color Balance, Equalize, White Balance Color Enhance Normalize Stretch Contrast, Stretch HSV, Correcting with Brightness (Contrast), Improving Tones in Images with Levels. Correcting a Dull Image with Curves, Improving Color and Tone with Curves, Color Too Strong (Oversaturated), Hue-Saturation, Noisy Image Sharpening an Image To Sharpen an Image with Unsharp Mask, Using Brushes to Repair Images, Unwanted Spots or Blotches, Removing Spots with the Smudge Brush, Removing Spots with the Healing Brush. Working with Text; Uses for Text in Images, Adding and Editing Text, Customizing Text from the Text Panel,	assignments
4.	1 April 2026	Till end of semester	Making Text Go Along a Path, Using Text to Create a Path. Working with Layers and Masks; Managing Layers, Layers Dialog, Adding, Duplicating, and Removing Layers, Arranging Layers in the Stack, Grouping and Merging Layers, Manipulating Layers, Resizing Layers, Working with Layer Transparency, Using Layer Masks.	Practical demonstrations and assignments

Name of the Teacher/s- Ms.Ritu Paran

Department: Department of Computer Science & Applications

Class: BCA 1 (2nd Semester) Section (s): A & B

Subject: Management Information System (MDC)(BCA-204)

S.		Date	Topics to be Covered	Academic Activity
No	From To		Undertaken*	
1.	Start of Semester	31 Jan, 2026	Introduction: Evolution of Computers, Windows and Unix. Fundamentals of windows, anatomy of windows, Operations on window: Opening, Minimizing, Maximizing, Moving, Resizing, Closing; Windows Explorer, Folders: Creating, deleting, copying, renaming folders, folder properties; Icons, Menu, Taskbar, Control panel, Recycle bin. Word Processing Package: Basics of Word Processing; Word Processing Basics; Text creation, Manipulation, Finding and replacing,	demonstrations
2.	1 Feb, 2026	28 Feb, 2026	Formatting of text; Printing of word document, Page Layout: Margin setting, Alignments, Adding Borders and shading, Adding Headers and Footers, Setting up Multiple columns, Working with tables, Spell check, Auto Correct, Grammar facility, Mail merge. Spreadsheet Package: Worksheet Basics, Data Entry in Cells: Entry of numbers, text and formulae, Moving data in a worksheet, Moving around in a worksheet, Selecting Data Range. Using the interface (Toolbars, Menus), Editing Basics, Working with workbooks,	assignments
3.	1 March, 2026	31 March, 2026	Cell referencing: Absolute, Relative and Mixed; Formatting and Calculations: usingAutofill, Working with Formulae, Creating Chart and graphs. Presentation Packages: Basics, General Features, Creating a presentation, Different types of slide views, Master Slides and its use, Formatting Slides: slide design, Layout and background; Animation effect, Transition effect, timing effects, Macros.	assignments
4.	1 April 2026	Till end of semester	Database Package: Introduction to Database, Tables, Data Types, Attributes, Records; Overview of MS- ACCESS Creating Database, Creating Tables, Data types, Creating forms and queries.	Practical demonstrations and assignments

Name of the Teacher/s- Ms. Komal

Department: Department of Computer Science & Applications

Class: BCA 1 (2nd Semester) Section (s): A & B

Subject: Introduction to Blockchain Technology (VAC) (BCA-208)

S. No	Date (Monthly)		Topics to be Covered	Academic Activity Undertaken*
	From	То		
1.	Start of Semester	31 Jan, 2026	History of Blockchain, Terminologies in Blockchain, Types of Blockchain, Applications of Blockchain, How blockchain works, Ingredients of Blockchain.	videos, discussion
2.	1 Feb, 2026	28 Feb, 2026	Various types of Blockchain and its real time applications. Introduction to cryptography-Encryption and Decryption, Ciphers	videos, discussion
3.	1 March, 2026	31 March, 2026	Introduction to Consensus Methods - Proof of Work(PoW), Proof of Stake(PoS), Block chain for Government: Digital identity, land records and other kinds of record keeping between government entities, public distribution system / social welfare systems.	videos, discussion
4.	1 April 2026	Till end of semester	Block chain Cryptography: Privacy and Security on Block chain.	Lecture Method, PPT, online videos, discussion