I.B. (PG) COLLEGE, PANIPAT
LESSON PLAN
SESSION 2023-24 (01.01.2024 to 30.04.2024)

Weekly Lesson Plan (Even Semester)

UG (IV / VI - Semester)

Name of the Paper:- Advanced Programming With VB   Class: Bca VI Sem

Name of the Teachers (Section Wise) : Prof. Vinay Bharti

WEEK	DATE	TOPICS
1	January (1-6)	Collections: Adding, Removing, Counting, Returning Items in a Collection, Processing a Collection;
SUNDAY - 07.01.2024		
2	January (8-13)	Working with Forms: Form Properties, Creating, Adding, Removing Forms in Project, Adding Multiple forms
SUNDAY - 14.01.2024		
3	January (15-16) January (18-20)	Managing Forms at Run Time, Hiding & Showing Forms, Load & Unload Statements, Programming Examples
HOLIDAY - 17.01.2024-SHRI GURU GOBIND SINGH JI JAYANTI		
SUNDAY - 21.01.2024		
4	January (22-25) January (27)	Drag and Drop Operation, Activate & Deactivate events, Form-load event, Example using Forms, Programs in VB using Forms
HOLIDAY - 26.01.2024 - REPUBLIC DAY		
SUNDAY - 28.01.2024		
5	January (29-31) February (1-3)	Working with Menu: Menu Designing in VB, Adding a Menu to a Form, Modifying and Deleting Menu Items, Adding Access Characters
SUNDAY - 04.02.2024		

6	**February (5-10)**	, Adding Shortcut Keys, Manipulating Menus using Common Dialog
		Box, Attaching Code to Events, Creating Submenus,
		Dynamic Menu Appearance

SUNDAY - 11.02.2024

7	**February (12-13)** **February (15-17)**	Advanced Controls in VB: Scroll Bar, Slider Control,
		Tree View, List View, Rich Text Box Control,
		Toolbar, Status Bar, Progress Bar

HOLIDAY 14.02.2024 - BASANT PANCHMI/SIR CHHOTU RAM JAYANTI

SUNDAY - 18.02.2024

8	**February (19-24)**	Cool bar, Image List
		Revision Of Collection
		Conditonal Test Of Unit 1

SUNDAY - 25.02.2024

9	**February (26-29)** **March (1-2)**	Program Development in VB using Menus and Advance Controls

SUNDAY - 03.03.2024

10	**March (4-7)** **March (9)**	File Handling & File Controls: Sequential & Random files, Opening
		and Closing Data Files, Viewing the Data in a File,
		Performing Operations on a File, Creating a Sequential
		Data File

HOLIDAY - 08.03.2024 - MAHA SHIVRATRI

SUNDAY - 10.03.2024

11	**March (11-16)**	Writing Data to a Sequential File, Reading the Data in a Sequential
		File, Finding the End of a Data File, Locating a File

SUNDAY - 17.03.2024

12	**March (18-22)**	Reading and Writing a Random File (get, put, LOF, seek).
		Program Development in VB using File Handling

HOLI VACATION - 23.03.2024 - 31.03.2024
(SHAHEEDI DIWAS - 23.03.2024)

13	**April (1-6)**	Working with Graphics: Using Paint, Line, Circle, Manipulating
		Graphics Program Development in VB using Graphics

SUNDAY - 07.04.2024

14	**April (8-10)** **April (12-13)**	Revison Of Unit 2
		Assignment 1

HOLIDAY - 11.04.2024 - ID-UL-FITR
SUNDAY - 14.04.2024

15	**April (15-16)** **April (18-20)**	Accessing Databases: Data Controls, Data-Bound Controls, DAO, RDO, ADO
		Assignment 2
		Class Test Of Unit 3

HOLIDAY - 17.04.2024 - RAM NAVMI
SUNDAY - 21.04.2024

16	**April (22-27)**	Creating the Database, Setting Properties, Applying Operations on Database, Viewing the Database, Updating the Database (adding, deleting records)

SUNDAY - 28.04.2024

17	**April (29-30)**	Program Development in VB using Database and Advance Controls
		Revison Of Unit 2

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I.B. (PG) COLLEGE, PANIPAT

LESSON PLAN

SESSION 2023-24 (01.01.2024 to 30.04.2024)

Weekly Lesson Plan (Even Semester)

UG (IV / VI - Semester) : VI SEMESTER

Name of the Paper:- JAVA CORE   **Class: BCA III**

Name of the Teachers (Section Wise) : DR. NEETU MANOCHA

WEEK	DATE	TOPICS
1	**January (1-6)**	Basic Principles of Object Oriented Programming,
		Introduction to Java, History and Features of Java,
		Java Virtual Machine (JVM), Java's Magic Bytecode;
SUNDAY - 07.01.2024		
2	**January (8-13)**	The Java Runtime Environment; Basic Language Elements:
		Lexical Tokens, Identifiers, Keywords, Literals, Comments, Primitive Data types,
		Continue
SUNDAY - 14.01.2024		
3	**January (15-16) January (18-20)**	Operators, Assignments; Input/output in Java: Basics,
		I/O Classes, Reading Console Input, Control
		Structures in Java: Decision and Loop Control Statements
HOLIDAY - 17.01.2024-SHRI GURU GOBIND SINGH JI JAYANTI		
SUNDAY - 21.01.2024		
4	**January (22-25) January (27)**	Class and Object in Java: Defining Class in Java,
		Creating Objects of a Class, Defining Methods,
		Argument Passing Mechanism, Using Class and Objects,
		Constructors, Nested Class, Inner Class,
		Abstract Class,
HOLIDAY - 26.01.2024 - REPUBLIC DAY		
SUNDAY - 28.01.2024		
5	**January (29-31) February (1-3)**	Dealing with Static Members; Array & String in Java: Defining an Array,
		Initializing & Accessing Array, Multi –Dimensional Array, Defining String,
		Operation on Array and String, Creating Strings using String Class, Creating Strings using StringBuffer Class,;
SUNDAY - 04.02.2024		

6	**February (5-10)**	Polymorphism in Java:
		Basic Concept, Types,
		Overriding vs. Overloading, Implementation
		ASSIGNMENT - 1

SUNDAY - 11.02.2024	

7	**February (12-13) February (15-17)**	Extending Classes and Inheritance in Java:
		Benefits of Inheritance, Types of Inheritance in Java,
		Access Attributes, Inheriting Data Members and Methods, Role of Constructors in Inheritance,

HOLIDAY 14.02.2024 - BASANT PANCHMI/SIR CHHOTU RAM JAYANTI	

SUNDAY - 18.02.2024	

8	**February (19-24)**	Use of "super"; Packages & Interfaces: Basic Concepts of Package and Interface,
		Organizing Classes and Interfaces in Packages,
		Defining Package, Adding Classes from a Package to Your Program,

SUNDAY - 25.02.2024	

9	**February (26-29) March (1-2)**	CLASSPATH Setting for Packages, Import Package, Naming Convention For Packages ,
		Access Protection in Packages, Standard Packages
		Exception Handling in Java: The Idea behind Exception,

SUNDAY - 03.03.2024	

10	**March (4-7) March (9)**	CONDITIONAL TEST
		Types of Exception, Use of try, catch, finally, throw, throws in Exception Handling,
		In-built and User Defined Exceptions, Checked and Un-Checked Exceptions,

HOLIDAY - 08.03.2024 - MAHA SHIVRATRI	

SUNDAY - 10.03.2024	

11	**March (11-16)**	Catching more than one Exception; Applet in Java: Applet Basics, Applet Architecture,
		REVISION
		REVISION

SUNDAY - 17.03.2024	

12	March (18-22)	Applet Life Cycle, Applet Tag, Parameters to Applet, Embedding Applets in Web page,
		Creating
		Simple Applets; GUI Programming:
		REVISION

HOLI VACATION - 23.03.2024 - 31.03.2024

13	April (1-6)	Designing Graphical User Interfaces in Java,
		Components and
		Containers, Using Containers, Layout Managers,
		REVISION

SUNDAY - 07.04.2024

14	April (8-10) April (12-13)	AWT Components,
		REVISION
		REVISION

HOLIDAY - 11.04.2024 - ID-UL-FITR
SUNDAY - 14.04.2024

15	April (15-16) April (18-20)	AWT Classes,
		AWT Controls,
		REVISION

HOLIDAY - 17.04.2024 - RAM NAVMI
SUNDAY - 21.04.2024

16	April (22-27)	REVISION
		REVISION
		REVISION

SUNDAY - 28.04.2024

17	April (29-30)	Queries on Problem
		Queries on Problem

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I.B. (PG) COLLEGE, PANIPAT

LESSON PLAN

SESSION 2023-24 (01.01.2024 to 30.04.2024)

Weekly Lesson Plan (Even Semester)

UG (IV / VI - Semester)

Name of the Paper:- internet technology **Class: BCA 3rd yr**

Name of the Teachers (Section Wise) : Mrs.pooja

WEEK	DATE	TOPICS
1	January (1-6)	Internet and TCP/IP: Introduction to the Internet Internet History
SUNDAY - 07.01.2024	
2	January (8-13)	Internet Administration Internet and Intranet; Internet Services; TCP/IP model and its protocols
	SUNDAY - 14.01.2024	
3	January (15-16) January (18-20)	IP addresses: IPv4; Subnetting IPv4addresses Next generation Internet Protocol (IPv6)
	HOLIDAY - 17.01.2024–SHRI GURU GOBIND SINGH JI JAYANTI	
	SUNDAY - 21.01.2024	
4	January (22-25) January (27)	The need for IPv6 Packet Format IPv6 Addresses; Extension Headers;
	HOLIDAY - 26.01.2024 - REPUBLIC DAY	
	SUNDAY - 28.01.2024	
5	January (29-31) February (1-3)	TCP/IPs Transport and Network Layer Protocols Role of TCP UDP, IP,
	SUNDAY - 04.02.2024	

		assignment-1
6	**February (5-10)**	Port numbers; Format of TCP, UDP and IP
		TCP services, TCP connection management

SUNDAY - 11.02.2024

		Remote Procedure Call; SCTP
7	**February (12-13)** **February (15-17)**	IP address resolution- DNS; Domain Name Space

HOLIDAY 14.02.2024 - BASANT PANCHMI/SIR CHHOTU RAM JAYANTI

SUNDAY - 18.02.2024

		DNS mapping
8	**February (19-24)**	Recursive and Iterative resolution
		Resource records , Mapping Internet Addresses to Physical Addresses;

SUNDAY - 25.02.2024

		ARP, RARP, BOOTP
9	**February (26-29)** **March (1-2)**	DHCP; ICMP; IGMP
		test

SUNDAY - 03.03.2024

		TCP Application Level Protocols
10	**March (4-7)** **March (9)**	ip Application Level Protocols
		Electronic Mail

HOLIDAY - 08.03.2024 - MAHA SHIVRATRI

SUNDAY - 10.03.2024

		Architecture; SMTP,
11	**March (11-16)**	MIME, POP
		IMAP

SUNDAY - 17.03.2024

12	**March (18-22)**	Web Based Mail; File Access and Transfer
		FTP, Anonymous FTP
		TFTP, NFS;

HOLI VACATION - 23.03.2024 - 31.03.2024	
(SHAHEEDI DIWAS - 23.03.2024)	

13	**April (1-6)**	Remote Login using TELNET
		Voice and Video over IP: RTP, RTCP, IP Telephony and Signaling
		Resource Reservation and Quality of Service, RSVP;

SUNDAY - 07.04.2024	

14	**April (8-10)** **April (12-13)**	assignment-2
		Routing in Internet: RIP, OSPF
		BGP; Internet Multicasting

HOLIDAY - 11.04.2024 - ID-UL-FITR	
SUNDAY - 14.04.2024	

15	**April (15-16)** **April (18-20)**	Mobile IP
		Private Network Interconnection: Network Address Translation (NAT),

HOLIDAY - 17.04.2024 - RAM NAVMI	
SUNDAY - 21.04.2024	

16	**April (22-27)**	Virtual Private Network (VPN); Internet Management: SNMP;
		Internet Security: IPSec, E-Mail Security
		Web Security; Firewalls; Digital Signatures; Certificates;

SUNDAY - 28.04.2024	

17	**April (29-30)**	revision
		revision

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LESSON PLAN

SESSION 2023-24 (01.01.2024 to 30.04.2024)

Weekly Lesson Plan (Even Semester)

UG (IV / VI - Semester)   VI SEM

Name of the Paper:- OPERATING SYSTEM - II   Class: BCA III

Name of the Teachers (Section Wise) : DR. NEETU MANOCHA

WEEK	DATE	TOPICS
1	January (1-6)	Process Synchronization:
		The Critical Section Problem – Single Process/Two Process Solutions;
		Continue
SUNDAY - 07.01.2024		
2	January (8-13)	Semaphores – Types,
		Implementation,
		Deadlocks and Starvation;
SUNDAY - 14.01.2024		
3	January (15-16) January (18-20)	Classical Problems of Synchronization –
		The Bounded Buffer Problem,
		The Readers and Writers Problem, The Dining- Philosophers Problem,
HOLIDAY - 17.01.2024-SHRI GURU GOBIND SINGH JI JAYANTI		
SUNDAY - 21.01.2024		
4	January (22-25) January (27)	Critical Regions, Monitors
		Directory Structure: Single Level,
		Two Level, Tree Structures,
HOLIDAY - 26.01.2024 - REPUBLIC DAY		
SUNDAY - 28.01.2024		
5	January (29-31) February (1-3)	Acyclic Graph, General Graph;
		Directory Implementation, Recovery
		Secondary Storage Structure: Disk Structure,
SUNDAY - 04.02.2024		

6	February (5-10)	Disk Scheduling: FCFS,
		SSTF, SCAN,
		C-SCAN,
		LOOK;

SUNDAY - 11.02.2024

7	February (12-13) February (15-17)	Selection of Disk Scheduling Algorithm;
		Disk Management; Swap Space Management
		Network Operating Systems: Remote Login, Remote

HOLIDAY 14.02.2024 - BASANT PANCHMI/SIR CHHOTU RAM JAYANTI

SUNDAY - 18.02.2024

8	February (19-24)	File Transfer;
		Distributed Operating System: X
		ASSIGNMENT - 1
		File Transfer;
		Distributed Operating System: Data Migration, Computation Migration, Process Migration

SUNDAY - 25.02.2024

9	February (26-29) March (1-2)	Linux: Introduction, Features,
		Architecture, Distributions,
		Accessing Linux System, Login/Logout/Shutting Down,

SUNDAY - 03.03.2024

10	March (4-7) March (9)	Comparison of Linux with other Operating Systems,
		Commands in
		Linux: General-Purpose Commands,
		File Oriented Commands, Directory Oriented Commands,

HOLIDAY - 08.03.2024 - MAHA SHIVRATRI

SUNDAY - 10.03.2024

11	March (11-16)	Communication Oriented Commands,
		Process Oriented Commands,
		Redirection of Input and Output,
		Pipes

SUNDAY - 17.03.2024

		CONDITIONAL TEST
		Linux File System: Types of Files in Linux,
12	**March (18-22)**	File Attributes, Structure of File System, inode, File Permission,
HOLI VACATION - 23.03.2024 - 31.03.2024		
13	**April (1-6)**	File System Components, Standard File System, File System Types, Disk Related Commands
		Processes in Linux: Introduction, Job Control in Linux using at, batch, corn & time commands
		ASSIGNMENT - 2
SUNDAY - 07.04.2024		
14	**April (8-10)** **April (12-13)**	The vi editor: Introduction, Modes of vi Editor, Command in vi Editor
		Shell Programming: Introduction, Shell Variables, Shell Keywords, Operators,
		Assigning Values to the Variables, I/O in Shell, Control Structures, Creating & Executing Shell Programs in Linux.
HOLIDAY - 11.04.2024 - ID-UL-FITR		
SUNDAY - 14.04.2024		
15	**April (15-16)** **April (18-20)**	REVISION REVISION REVISION
HOLIDAY - 17.04.2024 - RAM NAVMI		
SUNDAY - 21.04.2024		
16	**April (22-27)**	Queries on Problem
		Queries on Problem
		Queries on Problem
SUNDAY - 28.04.2024		
17	**April (29-30)**	Queries on Problem
University Examinations w.e.f. 01.05.2024		

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LESSON PLAN

SESSION 2023-24 (01.01.2024 to 30.04.2024)

Weekly Lesson Plan (Even Semester)

UG (IV / VI - Semester)

Name of the Paper:-web desgining using advance tools   **Class: B.C.A 3rd**

Name of the Teachers (Section Wise) : Mrs. Neeru

WEEK	DATE	TOPICS
1	January (1-6)	Interactivity Tool - JavaScript: Introduction, Features, Data types, Operators , Statements, Functions, Event Handling Use of Predefined Object and Methods, Frames, Windows, Tables, Images, Links
	SUNDAY - 07.01.2024	
2	January (8-13)	Interactivity Tool - VBScript: Introduction, Features, Variables, Data Types, Numeric and Literal Constants, Arrays, Operators, Subroutine Procedures,
	SUNDAY - 14.01.2024	
3	January (15-16) January (18-20)	Function Procedures, Control Statements, Strings, Message and Input Boxes, Date and Time, Event Handlers, Embedding VBScript in HTML
	HOLIDAY - 17.01.2024-SHRI GURU GOBIND SINGH JI JAYANTI	
	SUNDAY - 21.01.2024	
4	January (22-25) January (27)	Model, Interactivity Tool - Active Script Pages – Introduction, Features, Client-Server Model, Data Types, Decision Making Statements, Control statements,
	HOLIDAY - 26.01.2024 - REPUBLIC DAY	
	SUNDAY - 28.01.2024	
5	January (29-31) February (1-3)	Use of Various Objects of ASP, Various Assignment 1 Techniques of Connecting to Database
	SUNDAY - 04.02.2024	

6	**February (5-10)**	Other Interactivity Tools - Macromedia Flash, Macromedia Dreamweaver, PHP: Basic Introduction and Features U
		test-1
		DHTML: Introduction, Features, Events, Dynamic Positioning,

SUNDAY - 11.02.2024

7	**February (12-13) February (15-17)**	Layer Object, Properties of STYLE,
		Dynamic Styles, Inline Styles, Event Handlers; Cascading Style Sheets (CSS):

HOLIDAY 14.02.2024 - BASANT PANCHMI/SIR CHHOTU RAM JAYANTI

SUNDAY - 18.02.2024

8	**February (19-24)**	Basic Concepts, Properties, Creating Style Sheets; Common Tasks with CSS: Text, Fonts, Margins, Links, Tables, Colors; Marquee; Mouseovers; Filters and Transitions; Adding Links; Adding Tables;

SUNDAY - 25.02.2024

9	**February (26-29) March (1-2)**	Adding Forms; Adding Image and Sound; Use of CSS in HTML Documents Linking
		Embedding of CSS in HTML Document
		test-2

SUNDAY - 03.03.2024

10	**March (4-7) March (9)**	Microsoft FrontPage: Introduction, Features, Title Bar, Menu bar, FrontPage Tool Bar,

HOLIDAY - 08.03.2024 - MAHA SHIVRATRI

SUNDAY - 10.03.2024

11	**March (11-16)**	Style, FontFace and Formatting Bar, Scroll Bars
		assignment -2

SUNDAY - 17.03.2024

12	**March (18-22)**	XML: Introduction, Features, XML Support and Usage, Structure of XML Documents

| **HOLI VACATION - 23.03.2024 - 31.03.2024** |
| **(SHAHEEDI DIWAS - 23.03.2024)** |

13	**April (1-6)**	Structures in XML, Creating Document Type Declarations, Flow Objects,

| **SUNDAY - 07.04.2024** |

14	**April (8-10)** **April (12-13)**	, Working with Text and Font, Color and Background Properties; Creating Document Type Declarations,

| **HOLIDAY - 11.04.2024 - ID-UL-FITR** |
| **SUNDAY - 14.04.2024** |

15	**April (15-16)** **April (18-20)**	Structures in XML, , Working with Text and Font, Color and Background Properties;

| **HOLIDAY - 17.04.2024 - RAM NAVMI** |
| **SUNDAY - 21.04.2024** |

16	**April (22-27)**	XML: Introduction, Features, FontFace and Formatting Bar, Scroll Bars
		revision

| **SUNDAY - 28.04.2024** |

17	**April (29-30)**	revision
		revision
		revision

| **University Examinations w.e.f. 01.05.2024** |

I.B. (PG) COLLEGE, PANIPAT
LESSON PLAN
SESSION 2023-24 (01.01.2024 to 30.04.2024)

Weekly Lesson Plan (Even Semester)

UG (6th - Semester)

Name of the Paper:-   Computer Graphics   **Class: BCA**

Name of the Teachers (Section Wise) : Mohit

WEEK	DATE	TOPICS
1	January (1-6)	Introduction to Computer Graphics nteractive and Passive Graphics Applications of Computer Graphics; Display Devices: CRT
	SUNDAY - 07.01.2024	
2	January (8-13)	Random Scan, Raster Scan Refresh Rate and Interlacing Bit Planes, Color Depth, Color Palette
	SUNDAY - 14.01.2024	
3	January (15-16) January (18-20)	Color CRT Monitor, DVST Flat-Panel Displays: Plasma Panel, LED, LCD; Lookup Table, Interactive Input Devices
	HOLIDAY - 17.01.2024-SHRI GURU GOBIND SINGH JI JAYANTI	
	SUNDAY - 21.01.2024	
4	January (22-25) January (27)	Display Processor, General Purpose Graphics Software Coordinate Representations;
	HOLIDAY - 26.01.2024 - REPUBLIC DAY	
	SUNDAY - 28.01.2024	
5	January (29-31) February (1-3)	Point-Plotting Techniques: Scan Conversion, Scan-Converting a Straight Line: The Symmetrical DDA, The Simple DDA, Bresenham's Line Algorithm; Scan-Converting a Circle:
	SUNDAY - 04.02.2024	

6	**February (5-10)**	
		Circle drawing using Polar Coordinates
		Bresenham's Circle Algorithm,
		Scan-Converting an Ellipse:

SUNDAY - 11.02.2024

7	**February (12-13)** **February (15-17)**	
		Polynomial Method, Trigonometric Method
		Polygon Area Filling:
		Scan-line Fill and Flood Fill Algorithms;

HOLIDAY 14.02.2024 - BASANT PANCHMI/SIR CHHOTU RAM JAYANTI

SUNDAY - 18.02.2024

8	**February (19-24)**	
		Two-Dimensional Graphics Transformation:
		Basic Transformations
		Revised

SUNDAY - 25.02.2024

9	**February (26-29)** **March (1-2)**	
		conditional
		Translation, Rotation, Scaling;
		Matrix Representations and Homogeneous Coordinates;

SUNDAY - 03.03.2024

10	**March (4-7)** **March (9)**	
		Other Transformations: Reflection, Shearing
		Coordinate Transformations; Composite Transformations;

HOLIDAY - 08.03.2024 - MAHA SHIVRATRI

SUNDAY - 10.03.2024

11	**March (11-16)**	
		Inverse Transformation; Affine Transformations;
		Raster Transformation;
		Graphical Input: Pointing and Positioning Devices and Techniques

SUNDAY - 17.03.2024

12	March (18-22)	
		Two-Dimensional Viewing: Window and Viewport
		2-D Viewing Transformation Clipping: Point Clipping

HOLI VACATION - 23.03.2024 - 31.03.2024
(SHAHEEDI DIWAS - 23.03.2024)

13	April (1-6)	
		Line Clipping: Cohen-Sutherland Line Clipping Algorithm,
		Mid-Point Subdivision Line Clipping Algorithm;
		Polygon Clipping: Sutherland-Hodgman Polygon Clipping Algorithm;

SUNDAY - 07.04.2024

14	April (8-10) April (12-13)	
		conditional
		Three-Dimensional Graphics: Three-Dimensional Display Methods;
		3-D Transformations: Translation,

HOLIDAY - 11.04.2024 - ID-UL-FITR
SUNDAY - 14.04.2024

15	April (15-16) April (18-20)	
		Rotation,
		Revised

HOLIDAY - 17.04.2024 - RAM NAVMI
SUNDAY - 21.04.2024

16	April (22-27)	
		Scaling;
		Composite Transformations;
		Revised

SUNDAY - 28.04.2024

17	April (29-30)	
		Revised

University Examinations w.e.f. 01.05.2024