

I.B. (PG) COLLEGE, PANIPAT

LESSON PLAN

SESSION 2022-23 (01.02.2023 to 16.05.2023)

Weekly Lesson Plan Even Semester)

UG (II / IV / VI - Semester) VI

Name of the Paper:- Web Designing Using Advanced Tools

Class: BCA

Name of the Teachers (Section Wise) : Deepty Juneja

WEEK	DATE	TOPICS
1	February (1-4)	JavaScript: Introduction, Features, Data types, Operators
SUNDAY - 05.02.2023 Holiday (Guru Ravidass Jayanti)		
2	February (6-11)	Use of Predefined Object and Methods, Frames, Statements, Functions
		Windows, Tables, Images, Links, Event Handling
		Interactivity Tool - VBScript: Introduction, Features, Variables, Data Types,
SUNDAY - 12.02.2023		
3	February (13-17)	Numeric and Literal, Constants, Arrays,
		Operators, Subroutine Procedures, Function Procedures
		Control Statements,
HOLIDAY - 18.02.2023 (Maha Shivratri)		
SUNDAY - 19.02.2023		
4	February (20-25)	Strings, Message and Input Boxes
		Date and Time, Event Handlers, Embedding VBScript in HTML
		Interactivity Tool - Active Script Pages – Introduction, Features,
SUNDAY - 26.02.2023		
5	February (27-28) March (1-4)	Client-Server Model,
		Data Types, Decision Making Statements,
		Control statements,
SUNDAY - 05.03.2023		
Holi Vacations - 05.03.2023 to 12.03.2023		
7	March (13-18)	Use of Various Objects of ASP, Various Techniques of Connecting to Database
		Other Interactivity Tools - Macromedia Flash, Macromedia Dreamweaver,
		PHP: Basic Introduction and Features
SUNDAY - 19.03.2023		

8	March (20-25)	DHTML: Introduction, Features, Events,
		Dynamic Positioning, Layer Object,
		Properties of STYLE, Dynamic Styles, Inline Styles,
SUNDAY - 26.03.2023		
HOLIDAY 23.03.2023 Shaheedi Diwas		
9	March (27-31) April (1)	Assignment I
		Event Handlers;
		Cascading Style Sheets (CSS): Basic Concepts, Properties
HOLIDAY - 30.03.2023 (Ram Navmi)		
SUNDAY - 02.04.2023		
9	April (3-8)	Creating Style Sheets; Common Tasks with CSS:
		Common Tasks with CSS: Text, Fonts, Margins, Links, Tables, Colors; Marquee;
HOLIDAY - 04.04.2023 (Mahavir Jayanti)		
SUNDAY - 09.04.2023		
10	April (10-15)	Mouseovers; Filters and Transitions;
		Adding Links; Adding Tables;
		Adding Forms; Adding Image and Sound;
SUNDAY - 16.04.2023		
HOLIDAY - 14.04.2023 (DR.B.R.Ambedkar Jayanti)		
11	April (17-21)	Use of CSS in HTML Documents Linking and Embedding of CSS in HTML Document
		Microsoft FrontPage: Introduction, Features, Title Bar, Menu bar, FrontPage Tool Bar, Style, FontFace and Formatting Bar, Scroll Bars
		XML: Introduction, Features,
SUNDAY - 23.04.2023		
Holiday Id-UI-Fitr/Parshuram Jayanti (Saturday)		
12	April (24-29)	Conditional Test
		XML Support and Usage, Structure of XML
		Structure of XML Documents, Structures in XML, Creating Document Type Declarations
SUNDAY - 30.04.2023		
13	May (1-6)	Assignment II
		Objects, Working with Text and Font, Color and Background Properties;
SUNDAY - 07.05.2023		
14	May (8-13)	Revision
		Revision
		Revision
SUNDAY - 14.05.2023		
14	May (15-16)	Revision
		Revision
Examination 17.05.2023 Onwards.		

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LESSON PLAN

SESSION 2022-23 (01.02.2023 to 16.05.2023)

Weekly Lesson Plan Even Semester)

UG (II / IV / VI - Semester) 6TH SEM, (1-3) DAYS

Name of the Paper:- OPERATING SYSTEMS - II

Class: BCA III

Name of the Teachers (Section Wise) : PROF. NEETU

WEEK	DATE	TOPICS
1	February (1-4)	Process Synchronization:
		The Critical Section Problem – Single Process/Two Process Solutions;
SUNDAY - 05.02.2023 Holiday (Guru Ravidass Jayanti)		
2	February (6-11)	Semaphores – Types,
		Implementation,
		Deadlocks and Starvation;
SUNDAY - 12.02.2023		
3	February (13-17)	Classical Problems of Synchronization –
		The Bounded Buffer Problem,
		The Readers and Writers Problem, The Dining- Philosophers Problem,
HOLIDAY - 18.02.2023 (Maha Shivratri)		
SUNDAY - 19.02.2023		
4	February (20-25)	Critical Regions, Monitors
		Directory Structure: Single Level,
		Two Level, Tree Structures,
SUNDAY - 26.02.2023		
5	February (27-28) March (1-4)	Acyclic Graph, General Graph;
		Directory Implementation, Recovery
		Secondary Storage Structure: Disk Structure,
SUNDAY - 05.03.2023		
Holi Vacations - 05.03.2023 to 12.03.2023		
7	March (13-18)	Disk Scheduling: FCFS,
		SSTF, SCAN,
		C-SCAN, LOOK;
SUNDAY - 19.03.2023		
8	March (20-25)	Selection of Disk Scheduling Algorithm;
		Disk Management; Swap Space Management
		Network Operating Systems: Remote Login, Remote
SUNDAY - 26.03.2023		
HOLIDAY 23.03.2023 Shaheedi Diwas		

9	March (27-31) April (1)	File Transfer; Distributed Operating System: X
		ASSIGNMENT - 1
		File Transfer; Distributed Operating System: Data Migration, Computation Migration, Process Migration
HOLIDAY - 30.03.2023 (Ram Navmi)		
SUNDAY - 02.04.2023		
9	April (3-8)	Linux: Introduction, Features,
		Architecture, Distributions,
		Accessing Linux System, Login/Logout/Shutting Down,
HOLIDAY - 04.04.2023 (Mahavir Jayanti)		
SUNDAY - 09.04.2023		
10	April (10-15)	Comparison of Linux with other Operating Systems, Commands in Linux: General-Purpose Commands,
		File Oriented Commands, Directory Oriented Commands,
SUNDAY - 16.04.2023		
HOLIDAY - 14.04.2023 (DR.B.R.Ambedkar Jayanti)		
11	April (17-21)	Communication Oriented Commands, Process Oriented Commands, Redirection of Input and Output, Pipes
SUNDAY - 23.04.2023		
Holiday Id-UI-Fitr/Parshuram Jayanti (Saturday)		
12	April (24-29)	CONDITIONAL TEST Linux File System: Types of Files in Linux, File Attributes, Structure of File System, inode, File Permission,
SUNDAY - 30.04.2023		
13	May (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 - 07.05.2023		
14	May (8-13)	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.
SUNDAY - 14.05.2023		
14	May (15-16)	Queries on Problem
		Queries on Problem
Examination 17.05.2023 Onwards.		

I.B. (PG) COLLEGE, PANIPAT**LESSON PLAN****SESSION 2022-23 (01.02.2023 to 16.05.2023)**

Weekly Lesson Plan Even Semester)

UG (II / IV / VI - Semester)

Name of the Paper:- Computer Graphics

Class: BCA Final (Sem - 06)

Name of the Teachers (Section Wise) : Prof. Karuna

WEEK	DATE	TOPICS
1	February (1-4)	Introduction to Computer Graphics; Interactive and Passive Graphics
		Applications of Computer Graphics
		Applications of Computer Graphics
SUNDAY - 05.02.2023 Holiday (Guru Ravidass Jayanti)		
2	February (6-11)	
		Display Devices: CRT Random Scan, Raster Scan Refresh Rate and Interlacing, Bit Planes
SUNDAY - 12.02.2023		
3	February (13-17)	
		Color Depth, Color Palette, Color CRT Monitor DVST, Flat-Panel Displays: Plasma Panel
HOLIDAY - 18.02.2023 (Maha Shivratri)		
SUNDAY - 19.02.2023		
4	February (20-25)	
		Flat-Panel Displays: LED, LCD Lookup Table, Interactive Input Devices Display Processor, General Purpose Graphics Software, Coordinate Representations
SUNDAY - 26.02.2023		
5	February (27-28) March (1-4)	
		Point-Plotting Techniques: Scan Conversion, Scan-Converting a Straight Line: The Symmetrical DDA Scan-Converting a Straight Line: The Simple DDA, Bresenham's Line Algorithm Scan-Converting a Circle: Circle drawing using Polar Coordinates, Bresenham's Circle Algorithm
SUNDAY - 05.03.2023		
Holi Vacations - 05.03.2023 to 12.03.2023		
7	March (13-18)	
		ScanConverting an Ellipse: Polynomial Method, Trigonometric Method Polygon Area Filling: Scan-line Fill and Flood Fill Algorithms Assignment and Revision
SUNDAY - 19.03.2023		
8	March (20-25)	
		Two-Dimensional Graphics Transformation: Basic Transformations: Translation, Rotation, Scaling Matrix Representations and Homogeneous Coordinates

SUNDAY - 26.03.2023		
		HOLIDAY 23.03.2023 Shaheedi Diwas
9	March (27-31) April (1)	
		Other Transformations: Reflection, Shearing Coordinate Transformations; Composite Transformations; Inverse Transformation
HOLIDAY - 30.03.2023 (Ram Navmi)		
SUNDAY - 02.04.2023		
9	April (3-8)	
		Affine Transformations; Raster Transformation Graphical Input: Pointing and Positioning Devices and Techniques
		Assignment 2 and Sessional
HOLIDAY - 04.04.2023 (Mahavir Jayanti)		
SUNDAY - 09.04.2023		
10	April (10-15)	
		Two-Dimensional Viewing: Window and Viewport, 2-D Viewing Transformation Clipping: Point Clipping; Line Clipping: Cohen-Sutherland Line Clipping Algorithm
SUNDAY - 16.04.2023		
HOLIDAY - 14.04.2023 (DR.B.R.Ambedkar Jayanti)		
11	April (17-21)	
		MidPoint Subdivision Line Clipping Algorithm Polygon Clipping: Sutherland-Hodgman Polygon Clipping Algorithm
SUNDAY - 23.04.2023		
Holiday Id-UI-Fitr/Parshuram Jayanti (Saturday)		
12	April (24-29)	
		Three-Dimensional Graphics: Three-Dimensional Display Methods 3-D Transformations: Translation 3-D Transformations: Rotation, Scaling
SUNDAY - 30.04.2023		
13	May (1-6)	
		Composite Transformations Revision Revision
SUNDAY - 07.05.2023		
14	May (8-13)	
		Revision Revision Revision
SUNDAY - 14.05.2023		
14	May (15-16)	
Examination 17.05.2023 Onwards.		

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LESSON PLAN

SESSION 2022-23 (01.02.2023 to 16.05.2023)

Weekly Lesson Plan Even Semester)

UG (II / IV / VI - Semester) VI sem

Name of the Paper:-information Technology

Class: B.C.A

Name of the Teachers (Section Wise) : Milan Sharma

WEEK	DATE	TOPICS
1	February (1-4)	Internet: Introduction; History; Internet Services;
SUNDAY - 05.02.2023 Holiday (Guru Ravidass Jayanti)		
2	February (6-11)	TCP/IP: Architecture, Layers, Protocols;model versus OSI Model
		World Wide Web - The Client Side, The Server Side, Creating andSearching Information on the Web,
		Popular Search Engines, URL, HTTP, Web Browsers, Chat
SUNDAY - 12.02.2023		
3	February (13-17)	Bulletin Board USENET
		NNTP ,Internet vs. Intranet
		TCP, UDP and IP Protocols,
HOLIDAY - 18.02.2023 (Maha Shivratri)		
SUNDAY - 19.02.2023		
4	February (20-25)	Port Numbers; Format of TCP, UDP and IP
		IPv4 addressing; The needfor IPv6;
		IPv6 addressing and packet format
SUNDAY - 26.02.2023		
5	February (27-28) March (1-4)	TCP Services;
		TCP Connection Management; Remote Procedure Call
		IP Address Resolution- DNS;
SUNDAY - 05.03.2023		
Holi Vacations - 05.03.2023 to 12.03.2023		
7	March (13-18)	Domain Name Space; DNS Mapping
		Recursive and Iterative Resolution;
		Mapping Internet Addresses : ARP
SUNDAY - 19.03.2023		

8	March (20-25)	RARP, DHCP; ICMP;
		ASSIGNMENT
		Application Layer: Electronic Mail: Architecture;
SUNDAY - 26.03.2023		
HOLIDAY 23.03.2023 Shaheedi Diwas		
9	March (27-31) April (1)	Protocols - SMTP, MIME
		POP, IMAP
		Web Based Mail;
HOLIDAY - 30.03.2023 (Ram Navmi)		
SUNDAY - 02.04.2023		
9	April (3-8)	File Access and Transfer: FTP
		Anonymous FTP,TFTP, NFS;
HOLIDAY - 04.04.2023 (Mahavir Jayanti)		
SUNDAY - 09.04.2023		
10	April (10-15)	Remote Login using TELNET
		Voice and Video over IP: RTP
		Conditional
SUNDAY - 16.04.2023		
HOLIDAY - 14.04.2023 (DR.B.R.Ambedkar Jayanti)		
11	April (17-21)	RTCP, IP
		Telephony and Signaling, RSVP;
		Routing in Internet: RIP,
SUNDAY - 23.04.2023		
Holiday Id-UI-Fitr/Parshuram Jayanti (Saturday)		
12	April (24-29)	OSPF, BGP
		Internet Multicasting; Mobile IP;
		Private Network Interconnection: Network Address Translation (NAT)
SUNDAY - 30.04.2023		
13	May (1-6)	Virtual Private Network (VPN)
		Internet Management and SNMP;
		Internet Security: E-Mail Security
SUNDAY - 07.05.2023		
14	May (8-13)	Web Security
		Firewall; Introduction to IPSec and SSL
		REVISION
SUNDAY - 14.05.2023		
14	May (15-16)	REVISION
		REVISION
Examination 17.05.2023 Onwards.		

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LESSON PLAN

SESSION 2022-23 (01.02.2023 to 16.05.2023)

Weekly Lesson Plan Even Semester)

UG (VI - Semester)

Name of the Paper:- Advanced Programming in Visual Basic Class: BCA

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

WEEK	DATE	TOPICS
1	February (1-4)	
SUNDAY - 05.02.2023 Holiday (Guru Ravidass Jayanti)		
2	February (6-11)	Collections: Adding, Removing, Counting Returning Items in a Collection, Processing a Collection
SUNDAY - 12.02.2023		
3	February (13-17)	Working with Forms: Form Properties, Creating, Adding, Removing Forms in Project Creating, Adding, Removing Forms in Project
HOLIDAY - 18.02.2023 (Maha Shivratri)		
SUNDAY - 19.02.2023		
4	February (20-25)	Adding Multiple Forms, Managing Forms at Run Time, Hiding & Showing Forms, Load & Unload Statements, Drag and Drop Operation
SUNDAY - 26.02.2023		
5	February (27-28) March (1-4)	Activate & Deactivate events, Form-load event, Example using Forms, Programs in VB using Forms Revision
SUNDAY - 05.03.2023		
Holi Vacations - 05.03.2023 to 12.03.2023		
7	March (13-18)	Working with Menu: Menu Designing in VB, Adding a Menu to a Form, Modifying and Deleting Menu Items, Adding Access Characters, Adding Shortcut Keys Assignment -I
SUNDAY - 19.03.2023		

8	March (20-25)	Manipulating Menus using Common Dialog Box, Attaching Code to Events, Creating Submenus, Dynamic Menu Appearance
SUNDAY - 26.03.2023		
HOLIDAY 23.03.2023 Shaheedi Diwas		
9	March (27-31) April (1)	Advanced Controls in VB: Scroll Bar, Slider Control Tree View, List View, Rich Text Box Control
HOLIDAY - 30.03.2023 (Ram Navmi)		
SUNDAY - 02.04.2023		
9	April (3-8)	Toolbar, Status Bar, Progress Bar, Cool bar, Image List Program Development in VB using Menus and Advance Controls
HOLIDAY - 04.04.2023 (Mahavir Jayanti)		
SUNDAY - 09.04.2023		
10	April (10-15)	Conditional Test 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 Writing Data to a Sequential File, Reading the Data in a Sequential File
SUNDAY - 16.04.2023		
HOLIDAY - 14.04.2023 (DR.B.R.Ambedkar Jayanti)		
11	April (17-21)	Finding the End of a Data File, Locating a File, Reading and Writing a Random File (get, put, LOF, seek). Assignment –II
SUNDAY - 23.04.2023		
Holiday Id-Ul-Fitr/Parshuram Jayanti (Saturday)		
12	April (24-29)	Working with Graphics: Using Paint, Line, Circle, Manipulating Graphics Program Development in VB using Files and Graphics
SUNDAY - 30.04.2023		
13	May (1-6)	Accessing Databases: Data Controls, Data-Bound Controls, DAO, RDO, ADO, Creating the Database, Setting Properties, Applying Operations on Database, Viewing the Database
SUNDAY - 07.05.2023		
14	May (8-13)	Updating the Database (adding, deleting records) Program Development in VB using Database and Advance Controls
SUNDAY - 14.05.2023		
14	May (15-16)	Revision
Examination 17.05.2023 Onwards.		

I.B. (PG) COLLEGE, PANIPAT

LESSON PLAN

SESSION 2022-23 (01.02.2023 to 16.05.2023)

Weekly Lesson Plan Even Semester)

UG (II / IV / VI - Semester) 6TH SEM, (4-6) DAYS

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

Name of the Teachers (Section Wise) : PROF. NEETU

WEEK	DATE	TOPICS
1	February (1-4)	
		Basic Principles of Object Oriented Programming, Introduction to Java, History and Features of Java,
SUNDAY - 05.02.2023 Holiday (Guru Ravidass Jayanti)		
2	February (6-11)	
		Java Virtual Machine (JVM), Java's Magic Bytecode; The Java Runtime Environment; Basic Language Elements:
		Lexical Tokens, Identifiers, Keywords, Literals, Comments, Primitive Data types,
SUNDAY - 12.02.2023		
3	February (13-17)	
		Operators, Assignments; Input/output in Java: Basics, I/O Classes, Reading Console Input, Control
		Structures in Java: Decision and Loop Control Statements
HOLIDAY - 18.02.2023 (Maha Shivratri)		
SUNDAY - 19.02.2023		
4	February (20-25)	
		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,
SUNDAY - 26.02.2023		
5	February (27-28) March (1-4)	
		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 - 05.03.2023		
Holi Vacations - 05.03.2023 to 12.03.2023		
7	March (13-18)	
		Polymorphism in Java: Basic Concept, Types, Overriding vs. Overloading, Implementation
		ASSIGNMENT - 1
SUNDAY - 19.03.2023		

8	March (20-25)	
		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,
SUNDAY - 26.03.2023		
HOLIDAY 23.03.2023 Shaheedi Diwas		
9	March (27-31) April (1)	
		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,
HOLIDAY - 30.03.2023 (Ram Navmi)		
SUNDAY - 02.04.2023		
9	April (3-8)	
		CLASSPATH Setting for Packages, Import Package, Naming Convention For Packages , Access
		Protection in Packages, Standard Packages
		Exception Handling in Java: The Idea behind Exception,
HOLIDAY - 04.04.2023 (Mahavir Jayanti)		
SUNDAY - 09.04.2023		
10	April (10-15)	
		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,
SUNDAY - 16.04.2023		
HOLIDAY - 14.04.2023 (DR.B.R.Ambedkar Jayanti)		
11	April (17-21)	
		Catching more than one Exception; Applet in Java: Applet Basics, Applet Architecture,
		Applet Life Cycle, Applet Tag, Parameters to Applet, Embedding Applets in Web page, Creating
		Simple Applets; GUI Programming:
SUNDAY - 23.04.2023		
Holiday Id-UI-Fitr/Parshuram Jayanti (Saturday)		
12	April (24-29)	
		Designing Graphical User Interfaces in Java, Components and
		Containers, Using Containers, Layout Managers, AWT Components,
SUNDAY - 30.04.2023		
13	May (1-6)	
		AWT Classes,
		AWT Controls,
		REVISION
SUNDAY - 07.05.2023		
14	May (8-13)	
		REVISION
		REVISION
SUNDAY - 14.05.2023		
14	May (15-16)	Queries on Problem
		Queries on Problem
Examination 17.05.2023 Onwards.		