

I.B. (PG) COLLEGE, PANIPAT**LESSON PLAN****SESSION 2023-24 (05.08.2023 to 24.11.2023)****Weekly Lesson Plan (Odd Semester)****UG (1st / III / V - Semester) I****Name of the Paper:- Programming Using Visual Basic****Class: BCA V****Name of the Teachers (Section Wise) :Prof. Vinay Bharti**

WEEK	DATE	TOPICS
1	August (5)	
SUNDAY - 06.08.2023		
2	August (7-12)	Introduction to VB: Visual & Non-Visual programming, Procedural, Object-Oriented, Object-Based and Event-Driven Programming Languages,
		VB as Even-Driven and Object-Based Language, VB Environment:
		Menu bar, Toolbar, Project explorer, Toolbox, Properties Window, Form Designer, Form Layout,
SUNDAY - 13.08.2023		
3	August (14-19)	Immediate window, Default Controls in Tool Box Visual Development and Event Driven programming
		Class Test
		Basics of Programming: Variables: Declaring Variables, Types of variables, Converting Variables
		Types, User Defined Data Types, Forcing Variable Declaration, Scope & Lifetime of Variables.
HOLIDAY - 15.08.2023 - INDEPENDENCE DAY		
SUNDAY - 20.08.2023		
4	August (21-26)	Constants: Named & Intrinsic, Operators: Arithmetic, Relational & Logical operators, Input/output in
		VB: Various Controls for I/O, Message box, Input Box, Print statement, Programming examples
		Revision of First Unit & Problem Session
		Conditional Test of Unit-I & Unit-II
SUNDAY - 27.08.2023		
5	August (28-29, 31) September (1-2)	Decision Statements in VB - if statement, if-then-else, nested if-then-else & ladder else- if
		select-case & Programming examples
		Looping Statements in VB: do-loop, for-next, while-wend;
HOLIDAY - 30.08.2023 - RAKSHABANDHAN		
SUNDAY - 03.09.2023		
6	September (4-5, 7-9)	Exit statement, Nested Control Structure;
		Programming examples
		Programming examples
HOLIDAY - 06.09.2023 - JANAMASHTMI		
SUNDAY - 10.09.2023		
7	September (11-16)	Programming examples
		Programming examples
		Programming examples
SUNDAY - 17.09.2023		
8	September (18-22)	Arrays: Declaring and using Arrays,
		One-dimensional, Two-dimensional
		Programming examples
		Multi-dimensional Arrays, Static and Dynamic arrays, Array of Arrays.

HOLIDAY 23.09.2023 - SHAHEEDI DIVAS/HARYANA WAR HEROES' MARTYRDOM DAY**SUNDAY - 24.09.2023**

9	September (25-30)	Programming examples of two-dimensional & Multi-dimensional Arrays
		Assignment -I
		Revision of Array

SUNDAY - 01.10.2023**HOLIDAY - 02.10.2023 MAHATMA GANDHI JAYANTI**

10	October (3-7)	Procedures: General & Event Procedures, Subroutines,
		Programming examples
		Class Test of Control Structure

SUNDAY - 08.10.2023

11	October (9-14)	Functions, Calling Procedures, Arguments -
		Passing Mechanisms, Optional Arguments
		Programming Examples
		Programming Examples

SUNDAY - 15.10.2023 & HOLIDAY (MAHARAJA AGRASEN JAYANTI)

12	October (16-21)	Named Arguments, Functions Returning Custom Data
		Types
		Programming Examples
		Programming Examples

SUNDAY - 22.10.2023

13	October (23, 25-27)	Revision of Unit-II
		Programming Examples
		Programming Examples

HOLIDAY - 24.10.2023 DUSSEHRA**HOLIDAY 28.10.2023 - MAHARISHI VALMIKI JAYANTI****SUNDAY -29.10.2023**

14	October (30-31) November (2-4)	Assignment -II
		Simple Program Development in VB such as Sum of Numbers, Greatest among Numbers, Checking
		Even/Odd Number, HCF of Two Numbers, Generate Prime Numbers

HOLIDAY 01.11.2023 - HARYANA DAY

15	November (6-9)	Generate Fibonacci Series,
		Factorial of a Number, Searching, Sorting, etc.

Diwali Break - 10.11.2023 to 16.11.2023

16	November (17-18)	Revision
		Revision

SUNDAY - 19.11.2023

17	November (20-24)	Revision
		Revision
		Revision

25.11.2023 - Examinations

**I.B. (PG) COLLEGE, PANIPAT
LESSON PLAN**

SESSION 2023-24 (05.08.2023 to 24.11.2023)

Weekly Lesson Plan (Odd Semester)

UG (1st / III / V - Semester)

Name of the Paper:- Artificial Intelligence

Class: BCA -III

Name of the Teachers (Section Wise) : Luxmi

WEEK	DATE	TOPICS
1	August	
SUNDAY - 06.08.2023		
2	August (7-12)	
SUNDAY - 13.08.2023		
3	August (14-19)	
		Artificial intelligence, AI Concepts various Definition Of AI
		Knowledge Pyramid, people and computer
HOLIDAY - 15.08.2023 - INDEPENDENCE DAY		
SUNDAY - 20.08.2023		
4	August (21-26)	
		what computer can do better than people
		what people can do better than computer
		Revised
SUNDAY - 27.08.2023		
5	August (28-29, 31) September (1-2)	
		Characteristics of AI Problem and Representation In AI
		Component of AI,
		Assignment-I
HOLIDAY - 30.08.2023 - RAKSHABANDHAN		
SUNDAY - 03.09.2023		
6	September (4-5, 7-9)	
		AI Evolution, Application Areas OF AI
		History Of AI, The Turning test
		The Revised Turing Test
HOLIDAY - 06.09.2023 - JANAMASHTMI		
SUNDAY - 10.09.2023		
7	September (11-16)	
		Expert System, Component of Expert Sytem
		Knowledge base, inference engine, user interface
		Assignmnet-II
SUNDAY - 17.09.2023		
8	September (18-22)	
		Feature of expert system, expert system life cycle
		categories of expert system
		rule based vs. modle based expert system

HOLIDAY 23.09.2023 - SHAHEEDI DIVAS/HARYANA WAR HEROES' MARTYRDOM DAY		
SUNDAY - 24.09.2023		
9	September (25-30)	
		Advantage and limitation of expert system
		Developing an expert system, identification, Conceptualization revised
SUNDAY - 01.10.2023		
HOLIDAY - 02.10.2023 MAHATMA GANDHI JAYANTI		
10	October (3-7)	
		Formalization, Implementation
		testing using expert system
		Application Area of expert System
SUNDAY - 08.10.2023		
11	October (9-14)	
		AI and Search Process
		brute force Search-Depth First/Breadth First Search
		Revised
SUNDAY - 15.10.2023 & HOLIDAY (MAHARAJA AGRASEN JAYANTI)		
12	October (16-21)	
		Heuristic Search: Hill Climbing
		Constraint Satisfaction, means and analysis
		Best First Search
SUNDAY - 22.10.2023		
13	October (23, 25-27)	
		A* Algorithm, AO* Algorithm, Beam Search.
		Natural Language Processing: Introduction, Need, Goal How People overcome Natural Language Problems,
HOLIDAY - 24.10.2023 DUSSEHRA		
HOLIDAY 28.10.2023 - MAHARISHI VALMIKI JAYANTI		
SUNDAY -29.10.2023		
14	October (30-31) November (2-4)	
		Speech Recognition: Introduction, Advantages and Approaches
		Introduction to Robotics: Parts of a Robot, Controlling a Robot, Intelligent Robots, Mobile Robots
HOLIDAY 01.11.2023 - HARYANA DAY		
15	November (6-9)	Test
		test
		test
Diwali Break - 10.11.2023 to 16.11.2023		
16	November (17-18)	
SUNDAY - 19.11.2023		
17	November (20-24)	Revised
		Revised
		Revised
25.11.2023 - Examinations		

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Weekly Lesson Plan (Odd Semester)

UG (1st / III / V - Semester)

Name of the Paper:- Multimedia Tools

Class: BCA III

Name of the Teachers (Section Wise) : Karuna

WEEK	DATE	TOPICS
1	August (5)	
SUNDAY - 06.08.2023		
2	August (7-12)	Multimedia: Basic Concept
		Multimedia: Basic Concept, Definition
		Components & Applications of Multimedia
SUNDAY - 13.08.2023		
3	August (14-19)	Hypermedia and Multimedia
		Multimedia Hardware and Software
HOLIDAY - 15.08.2023 - INDEPENDENCE DAY		
SUNDAY - 20.08.2023		
4	August (21-26)	Multimedia Software Tools
		Presentation Tools
		Multimedia Authoring: Introduction, Features
SUNDAY - 27.08.2023		
5	August (28-29, 31) September (1-2)	Types of Authoring Tools: Card or Page-Based, Icon- Based, Time-Based, Object-Oriented
		VRML: History, Features, Assignment 1
HOLIDAY - 30.08.2023 - RAKSHABANDHAN		
SUNDAY - 03.09.2023		
6	September (4-5, 7-9)	Images: Graphics/Image Data Types, File Formats
		Color Models in Images and Video
HOLIDAY - 06.09.2023 - JANAMASHTMI		
SUNDAY - 10.09.2023		
7	September (11-16)	Video: Introduction, Types of Video Signals; Analog and Digital Video
		Analog Video Standards: NTSC, PAL, SECA
		Sessional
SUNDAY - 17.09.2023		
8	September (18-22)	Digital Video Standards: Chroma Subsampling
		Digital Video Standards: CCIR Standards, HDTV
		Digital Audio: Basic Concepts

HOLIDAY 23.09.2023 - SHAHEEDI DIVAS/HARYANA WAR HEROES' MARTYRDOM DAY		
SUNDAY - 24.09.2023		
9	September (25-30)	Analog vs. Digital Audio, Digitization of Sound
		Digital Audio File Formats, MIDI
		Assignment 2
SUNDAY - 01.10.2023		
HOLIDAY - 02.10.2023 MAHATMA GANDHI JAYANTI		
10	October (3-7)	Quantization and Transmission of Audio: Coding of Audio
		Pulse Code Modulation; Differential Coding of Audio
SUNDAY - 08.10.2023		
11	October (9-14)	Lossless Predictive Coding; DPCM
		Lossless Predictive Coding; DM; ADPCM
		Compression Techniques: Introduction
SUNDAY - 15.10.2023 & HOLIDAY (MAHARAJA AGRASEN JAYANTI)		
12	October (16-21)	Types of Data Compression
		Run-Length Coding, Variable- Length Coding
		Dictionary-Based Coding, Transform Coding
SUNDAY - 22.10.2023		
13	October (23, 25-27)	Image and Video Compression Techniques: JPEG Standard for Image Compression
		JPEG Mode
HOLIDAY - 24.10.2023 DUSSEHRA		
HOLIDAY 28.10.2023 - MAHARISHI VALMIKI JAYANTI		
SUNDAY - 29.10.2023		
14	October (30-31) November (2-4)	Video Compression Techniques: H.261
		Video Compression Techniques: H.263, MPEG
HOLIDAY 01.11.2023 - HARYANA DAY		
15	November (6-9)	
Diwali Break - 10.11.2023 to 16.11.2023		
16	November (17-18)	
SUNDAY - 19.11.2023		
17	November (20-24)	
25.11.2023 - Examinations		

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Weekly Lesson Plan (Odd Semester)

UG (1st / III / V - Semester)

Name of the Paper:- **COMPUTER NETWORKS**

Class: **BCA V**

Name of the Teachers (Section Wise) : **NEETU MANOCHA**

WEEK	DATE	TOPICS
1	August (5)	HAWAN & INAUGURATION SESSION 2019-20
SUNDAY - 06.08.2023		
2	August (7-12)	TIME-TABLE DISPLAY & DISCUSSION
		ORIENTATION PROGRAMME & LIBRARY VISIT (SCIENCE)
		ORIENTATION PROGRAMME & LIBRARY VISIT (COMMERCE)
		ORIENTATION PROGRAMME & LIBRARY VISIT (ARTS)
		Discussion of Syllabus
SUNDAY - 13.08.2023		
3	August (14-19)	Introduction to data communication and Computer Network
		network topology
		Uses of computer network,Types of computer network
HOLIDAY - 15.08.2023 - INDEPENDENCE DAY		
SUNDAY - 20.08.2023		
4	August (21-26)	Network hardware Component
		Network software ,network designe issue
		Connection oriented and connectionless servicies
SUNDAY - 27.08.2023		
5	August (28-29, 31) September (1-2)	Networking models
		OSI referance model
		Bandwidth, baud rate, transmission impairment, data rate limits
HOLIDAY - 30.08.2023 - RAKSHABANDHAN		
SUNDAY - 03.09.2023		
6	September (4-5, 7-9)	AnalOg and digital data and signal, data rate,capacity
		Bandwidth,data rate ,capacity, baud rate
		Wireless transmission
HOLIDAY - 06.09.2023 - JANAMASHTMI		
SUNDAY - 10.09.2023		
7	September (11-16)	Guided Transmission media,oral test
		Multiplexing
		Communication satellites, switching
SUNDAY - 17.09.2023		
8	September (18-22)	Modem and modulation techniques
		Data link layer designe issue
		ADSLand Cable Modem

HOLIDAY 23.09.2023 - SHAHEEDI DIVAS/HARYANA WAR HEROES' MARTYRDOM DAY		
SUNDAY - 24.09.2023		
9	September (25-30)	
		Flow control,Media access contro
		Error detection and correction
ASSIGNMENT 1		
SUNDAY - 01.10.2023		
HOLIDAY - 02.10.2023 MAHATMA GANDHI JAYANTI		
10	October (3-7)	
		Ethernet,Switch ethernet and fast ethernet
		CSMA ,Into to Lan technology
		ALOHA and slotted ALOHA and difference
SUNDAY - 08.10.2023		
11	October (9-14)	
		Gigabit ethernet,token ring
		Wireless LAN,Bluetooth
Shortest Path Routing		
SUNDAY - 15.10.2023 & HOLIDAY (MAHARAJA AGRASEN JAYANTI)		
12	October (16-21)	
		VLANs,Routing, Routine algo
		Chock packeting,load shading, elements of tranfer protocol
CONTD..		
SUNDAY - 22.10.2023		
13	October (23, 25-27)	
		Distance vector Routing
		Link state routing, Hierarchical routing
CONTD..		
HOLIDAY - 24.10.2023 DUSSEHRA		
HOLIDAY 28.10.2023 - MAHARISHI VALMIKI JAYANTI		
SUNDAY -29.10.2023		
14	October (30-31) November (2-4)	
		Digital signature,digital certificate, encryption method
		Problem discussion
		CONDITIONAL TEST
HOLIDAY 01.11.2023 - HARYANA DAY		
15	November (6-9)	
		ASSIGNMENT 2
		Congestion control, Trafficking shaping
Diwali Break - 10.11.2023 to 16.11.2023		
16	November (17-18)	Chock packeting,load shading, elements of tranfer protocol
		CONTD..
SUNDAY - 19.11.2023		
17	November (20-24)	
		QUERY ON PROBLEMS
		QUERY ON PROBLEMS
		QUERY ON PROBLEMS
25.11.2023 - Examinations		

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Weekly Lesson Plan (Odd Semester)

UG (V - Semester)

Name of the Paper:- **OPERATING SYSTEM**

Class: **BCA - III**

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

WEEK	DATE	TOPICS
1	August (5)	HAWAN & INAUGURATION SESSION 2019-20
SUNDAY - 06.08.2023		
2	August (7-12)	TIME-TABLE DISPLAY & DISCUSSION
		ORIENTATION PROGRAMME & LIBRARY VISIT (SCIENCE)
		ORIENTATION PROGRAMME & LIBRARY VISIT (COMMERCE)
		ORIENTATION PROGRAMME & LIBRARY VISIT (ARTS)
		Discussion of Syllabus
		Introduction to OS
SUNDAY - 13.08.2023		
3	August (14-19)	Charcterstics and Components
		Function and Examples
		Types of OS
HOLIDAY - 15.08.2023 - INDEPENDENCE DAY		
SUNDAY - 20.08.2023		
4	August (21-26)	Contd..
		Contd..
		System Call and System Programs
SUNDAY - 27.08.2023		
5	August (28-29, 31) September (1-2)	Process Control and File Manipulation
		Device Manipulation and Information Maintenance
		CONTD..
HOLIDAY - 30.08.2023 - RAKSHABANDHAN		
SUNDAY - 03.09.2023		
6	September (4-5, 7-9)	Process Management Unit II
		State and PCB
		Process Scheduling
HOLIDAY - 06.09.2023 - JANAMASHTMI		
SUNDAY - 10.09.2023		
7	September (11-16)	CONTD..
		Revision
		Deadlock Unit III
SUNDAY - 17.09.2023		
8	September (18-22)	Characterization and Methods
		Dealock Avoidance, Prevention
		Deadlock detection and Recovery

HOLIDAY 23.09.2023 - SHAHEEDI DIVAS/HARYANA WAR HEROES' MARTYRDOM DAY		
SUNDAY - 24.09.2023		
9	September (25-30)	Memory Management - Introduction
		Swapping
		Memory Allocation
SUNDAY - 01.10.2023		
HOLIDAY - 02.10.2023 MAHATMA GANDHI JAYANTI		
10	October (3-7)	CONTD..
		Assignment - 1
		Segmentation
SUNDAY - 08.10.2023		
11	October (9-14)	FRAGMENTATION
		Contd..
		Conditonal Test
SUNDAY - 15.10.2023 & HOLIDAY (MAHARAJA AGRASEN JAYANTI)		
12	October (16-21)	Virtual Memory - Unit IV
		CONTD.
		Demand Paging, Page Replacement
SUNDAY - 22.10.2023		
13	October (23, 25-27)	Page Replacement Algorithm
		CONTD.
		CONTD.
HOLIDAY - 24.10.2023 DUSSEHRA		
HOLIDAY 28.10.2023 - MAHARISHI VALMIKI JAYANTI		
SUNDAY -29.10.2023		
14	October (30-31) November (2-4)	Thrashing and its Causing
		File Management
		CONTD.
HOLIDAY 01.11.2023 - HARYANA DAY		
15	November (6-9)	Assignment - 2
		File Attributes , Protection and File Recovery
		Contd..
Diwali Break - 10.11.2023 to 16.11.2023		
16	November (17-18)	File Management methods and Operations
		Contd..
SUNDAY - 19.11.2023		
17	November (20-24)	QUERY ON PROBLEMS
		QUERY ON PROBLEMS
		QUERY ON PROBLEMS
25.11.2023 - Examinations		

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LESSON PLAN**

SESSION 2023-24 (05.08.2023 to 24.11.2023)

Weekly Lesson Plan (Odd Semester)

UG (1st / III / V - Semester)

Name of the Paper:- Web Designing Fundamentals

Class: BCA -III

Name of the Teachers (Section Wise) : Luxmi

WEEK	DATE	TOPICS
1	August (5)	
SUNDAY - 06.08.2023		
2	August (7-12)	
SUNDAY - 13.08.2023		
3	August (14-19)	Introduction to world wide web Evolution and history World wide web,basic feature of web browser revised
HOLIDAY - 15.08.2023 - INDEPENDENCE DAY		
SUNDAY - 20.08.2023		
4	August (21-26)	web servers,Hypertext Transfer protocol,URL Searching & web casting Technique, Swearch Engines & tools Assignment-I
SUNDAY - 27.08.2023		
5	August (28-29, 31) September (1-2)	Step for Devloping website,choosing the content home page, DomainNames, Internet services provider
HOLIDAY - 30.08.2023 - RAKSHABANDHAN		
SUNDAY - 03.09.2023		
6	September (4-5, 7-9)	Plaining and designing Web site Creating a Website
HOLIDAY - 06.09.2023 - JANAMASHTMI		
SUNDAY - 10.09.2023		
7	September (11-16)	Web Publisng: Hosting Site Intoduction to html and Hypertext, html document features
SUNDAY - 17.09.2023		
8	September (18-22)	Html Tages: Header, Title,Body,Paragraph order/unorder line,Creating links;Header; Assignment-II

HOLIDAY 23.09.2023 - SHAHEEDI DIVAS/HARYANA WAR HEROES' MARTYRDOM DAY		
SUNDAY - 24.09.2023		
9	September (25-30)	Text Style;Text Structuring; text colors and background
		Formatting text; Page layouts;insertion of text
		revised
SUNDAY - 01.10.2023		
HOLIDAY - 02.10.2023 MAHATMA GANDHI JAYANTI		
10	October (3-7)	Images: types of image, Insertion of image
		Movement of image, order and unorder list
		revised
SUNDAY - 08.10.2023		
11	October (9-14)	Inserting Graphics; Table handling function
		columns, Rows, width, Colours
		revised
SUNDAY - 15.10.2023 & HOLIDAY (MAHARAJA AGRASEN JAYANTI)		
12	October (16-21)	Frame Creation And layouts
		working with forms and menus
		revised
SUNDAY - 22.10.2023		
13	October (23, 25-27)	working with buttons like radio
		check box
		Revised
HOLIDAY - 24.10.2023 DUSSEHRA		
HOLIDAY 28.10.2023 - MAHARISHI VALMIKI JAYANTI		
SUNDAY -29.10.2023		
14	October (30-31) November (2-4)	Movement of Text
		Revised
HOLIDAY 01.11.2023 - HARYANA DAY		
15	November (6-9)	Test
		test
		test
Diwali Break - 10.11.2023 to 16.11.2023		
16	November (17-18)	
SUNDAY - 19.11.2023		
17	November (20-24)	Revised
		Revised
		Revised
25.11.2023 - Examinations		