

**I.B. (PG) COLLEGE, PANIPAT
(SESSION 2021-2022)**

Teaching Term : (06.10.2021 to 22.02.2022)

(Odd Semester)

Weekly Lesson Plan UG (Vth Semester)

Name of the Paper:- Web Designing Fundamentals

Class: BCA 3rd Year

Name of the Teachers (Section wise): Deepty

WEEK	DATE	TOPICS
1	October (6 - 9)	Discussion about syllabus
		HOLIDAY - 07.10.2021 - Maharaja Agarsen Jayanti
SUNDAY - 10.10.2021		
2	October (11-16)	Introduction to Internet and World Wide Web
		Evolution and History of World Wide Web
		Protocol
		HOLIDAY - 15.10.2021 - DUSSEHRA
SUNDAY - 17.10.2021		
3	October (18-23)	URLs; Searching and Web- Casting Techniques
		Search Engines and Search Tools
		Holiday - 20.10.2021 - Maharishi Valmiki Jayanti
SUNDAY - 24.10.2021		
4	October (25 -30)	Steps for Developing Website
		Choosing the Contents; Home Page; Domain Names
		Internet Service Provider; Planning and Designing Web Site
VACATIONS: 31.10.2021 to 07.11.2021 - DIWALI BREAK		
5	November (8 -13)	Creating a Website;
		Creating a Website;
		Web Publishing: Hosting Site
SUNDAY - 14.11.2021		

6	November (15 -20)	Introduction to HTML; Hypertext and HTML
		HTML Document Features
		HTML Tags; Header, Title, Body, Paragraph
		Holiday -19.11.2021 - Guru Nanak Dev Jayanti
SUNDAY - 21.11.2021		
7	November (22-27)	Ordered/Unordered Line, Creating Links
		Creating Links
		Headers; Text Styles
SUNDAY - 28.11.2021		
8	November (29-30) December (1-4)	Text Structuring; Text Colors and Background
		Formatting Text; Page layouts
		Insertion of Text, Movement of Text
SUNDAY - 5.12.2021		
9	December (6-11)	Group Discussion
		Assignment I
		Class Test
SUNDAY - 12.12.2021		
10	December (13-18)	Images: Types of Images
		Insertion of Image, Movement of Image
		Ordered and Unordered lists;
SUNDAY - 19.12.2021		
11	December (20-25)	Inserting Graphics
		Table Handling Functions like Columns, Rows, Width
		Colours; Frame Creation and Layouts;
		Holiday -25.12.2021 - Christmas
SUNDAY - 26.12.2021		

12	December (27-31)	Colours; Frame Creation and Layouts;
		Working with Forms and Menus
		Working with Forms and Menus
	January (1)	
SUNDAY -02.01.2022		
13	January (3-8)	Working with Forms and Menus
		Query Session
		Query Session
SUNDAY - 09.01.2022		
14	January (10-15)	Working with Forms and Menus
		Group Discussion
		Presentation
SUNDAY - 16.01.2022		
15	January (17-22)	Assignment II
		Query Session
		Query Session
SUNDAY - 23.01.2022		
16	January (24-29)	Conditional Test
		Working with Buttons like Radio, Check Box;
		Holiday - 26.01.2022 - Republic day
SUNDAY - 30.01.2022		

17	January(31)	Working with Buttons like Radio, Check Box;
	February(1-4)	Practical Implementation
		Practical Implementation
Holiday - 05.02.2022 - Vasant Panchami		
SUNDAY - 6.02.2022		
18	February (7-12)	Revision
		Revision
		Revision
SUNDAY - 13.02.2022		
19	February (14-19)	Revision
		Revision
		Revision
SUNDAY - 20.02.2022		
20	February (21-22)	Revision
		Revision

**I.B. (PG) COLLEGE, PANIPAT
(SESSION 2021-2022)**

Teaching Term : (06.10.2021 to 22.02.2022) (Odd Semester)

Weekly Lesson Plan UG (Vth Semester)

Name of the Paper:- OPERATING SYSTEM

Class: BCA FINAL Year

Name of the Teachers (Section wise): Dr.Ranju

WEEK	DATE	TOPICS
1	October (6 - 9)	TIME-TABLE DISPLAY & DISCUSSION
		HOLIDAY - 07.10.2021 - Maharaja Agarsen Jayanti
		Syllabus Discussion
		Introduction to Operating System
SUNDAY - 10.10.2021		
2	October (11-16)	Charcterstics and Components
		Contd..
		Function and Examples
		Contd..
		HOLIDAY - 15.10.2021 - DUSSEHRA
		Types of OS
SUNDAY - 17.10.2021		
3	October (18-23)	Contd..
		Contd..
		Holiday - 20.10.2021 - Maharishi Valmiki Jayanti
		Contd..
		System Call and System Programs
		Contd..
SUNDAY - 24.10.2021		
4	October (25 -30)	Contd..
		Process Control and File Manipulation
		Contd..
		Contd..
		Contd..
VACATIONS: 31.10.2021 to 07.11.2021 - DIWALI BREAK		
5	November (8 -13)	Device Manipulation and Information Maintenance
		Contd..
		Contd..
		Contd..
		Process Management Unit II
		Contd..
SUNDAY - 14.11.2021		

6	November (15 -20)	Contd..
		State and PCB
		Contd..
		Process Scheduling
		Holiday -19.11.2021 - Guru Nanak Dev Jayanti
SUNDAY - 21.11.2021		
7	November (22-27)	Contd..
		Contd..
		Contd..
		Revision
		CLASS TEST
Dealock Avoidance, Prevention		
SUNDAY - 28.11.2021		
8	November (29-30) December (1-4)	Contd..
		Contd..
		Contd..
		Deadlock detection and Recovery
		Contd..
SUNDAY - 5.12.2021		
9	December (6-11)	Memory Management - Introduction
		Contd..
		Contd..
		Contd..
		Swapping
SUNDAY - 12.12.2021		
10	December (13-18)	Fragmentation
		Contd..
		Contd..
		Contd..
		Assignment - 1 on CPU Scheduling
Segmentation		
SUNDAY - 19.12.2021		
11	December (20-25)	Contd..
		Contd..
		Contd..
		Virtual Memory - Unit IV
		Contd..
Holiday -25.12.2021 - Christmas		
SUNDAY - 26.12.2021		

12	December (27-31)	Contd..
		Contd..
		Page Replacement
		Demand Paging, Contd..
	January (1)	Page Replacement
SUNDAY - 02.01.2022		
13	January (3-8)	Contd..
		Contd..
		Contd..
		Page Replacement Algorithm
		Contd.. Contd..
SUNDAY - 09.01.2022		
14	January (10-15)	Assignment - 2 on Types of OS, Page Replacement Algorithm
		Revision
		Revision
		Revision
		CLASS TEST discussion
SUNDAY - 16.01.2022		
15	January (17-22)	Revision
		Revision
		CLASS TEST
		discussion
		Revision Revision
SUNDAY - 23.01.2022		
16	January (24-29)	CLASS TEST
		Revision
		Holiday - 26.01.2022 - Republic day
		discussion
		discussion Revision
SUNDAY - 30.01.2022		
17	January(31)	Revision
	February(1-4)	Revision
		Revision
		CLASS TEST
		discussion
Holiday - 05.02.2022 - Vasant Panchami		
SUNDAY - 6.02.2022		

18	February (7-12)	Revision
		Revision
		Revision
		CLASS TEST
		discussion
		discussion
		SUNDAY - 13.02.2022
19	February (14-19)	Revision
		Revision
		Revision
		CLASS TEST
		discussion
		discussion
		SUNDAY - 20.02.2022
20	February (21-22)	Revision
		Revision

**I.B. (PG) COLLEGE, PANIPAT
(SESSION 2021-2022)**

Teaching Term : (06.10.2021 to 22.02.2022) (Odd Semester)

Weekly Lesson Plan UG (Vth Semester)

Name of the Paper:- Artificial intelligence

Class: BCA III Year

Name of the Teachers (Section wise): Ritu Bhardwaj(4-6)

WEEK	DATE	TOPICS
1	October (6 - 9)	HOLIDAY - 07.10.2021 - Maharaja Agarsen Jayanti
		Intelligence
		AI Concepts
		SUNDAY - 10.10.2021
2	October (11-16)	
		Various definitions of AI,knowledge
		HOLIDAY - 15.10.2021 - DUSSEHRA
		Various definitions of AI,knowledge
SUNDAY - 17.10.2021		
3	October (18-23)	
		Holiday - 20.10.2021 - Maharishi Valmiki Jayanti
		Knowledge pyramid
		People and computer
		What people can can do better than computer and vice versa
SUNDAY - 24.10.2021		
4	October (25 -30)	
		Characterstics of AI problems
		Problem represenation in AI
		Component of AI
VACATIONS: 31.10.2021 to 07.11.2021 - DIWALI BREAK		
5	November (8 -13)	
		Component of AI
		Component of AI
		Application area of AI
SUNDAY - 14.11.2021		

6	November (15 -20)	
		History of AI
		Holiday -19.11.2021 - Guru Nanak Dev Jayanti
		The turing test
SUNDAY - 21.11.2021		
7	November (22-27)	
		Test
		Expert System
		Component of Expert System
SUNDAY - 28.11.2021		
8	November (29-30) December (1-4)	
		Component of Expert System
		Knowledge base
		Inference engine
SUNDAY - 5.12.2021		
9	December (6-11)	
		Expert System life cycle
		Categories of expert system
		Categories of expert system
SUNDAY - 12.12.2021		
10	December (13-18)	
		Categories of expert system
		Advantages and disadvantages of expert system
		Devoloping an expert system
SUNDAY - 19.12.2021		
11	December (20-25)	
		Identification ,conceptualization
		Formalization,Implementation,testing
		Holiday -25.12.2021 - Christmas
SUNDAY - 26.12.2021		

12	December (27-31)	
		Using an expert System
		Application area of expert system
	January (1)	AI search process:Brute force serach-DFS,BFS
SUNDAY - 02.01.2022		
13	January (3-8)	
		Heuristic search,hill climbing
		contraint satisfaction,mean end analysis
		Best first search,A* Algorithm
SUNDAY - 09.01.2022		
14	January (10-15)	
		AO* algorithm
		Beam search
		Natural language processing:introduction ,need ,goal
SUNDAY - 16.01.2022		
15	January (17-22)	
		Natural language processing:introduction ,need ,goal
		Problems in natural language proceesing,speech recognition
		Advantages and approachs of speech recognition
SUNDAY - 23.01.2022		
16	January (24-29)	
		Holiday - 26.01.2022 - Republic day
		Introduction to robotics:controlling robot
		Test mobile robot
SUNDAY - 30.01.2022		

17	January(31)	
	February(1-4)	
		Introduction to robotics:controlling robot ,mobile robot
		Introduction to robotics:controlling robot ,mobile robot
	Test	
Holiday - 05.02.2022 - Vasant Panchami		
SUNDAY - 6.02.2022		
18	February (7-12)	
		Revision
		Introduction to robotics:controlling robot ,mobile robot
	Test	
SUNDAY - 13.02.2022		
19	February (14-19)	
		previous year paper practice
		previous year paper practice
	previous year paper practice	
SUNDAY - 20.02.2022		
20	February (21-22)	

**I.B. (PG) COLLEGE, PANIPAT
(SESSION 2021-2022)**

Teaching Term : (06.10.2021 to 22.02.2022) (Odd Semester)

Weekly Lesson Plan UG (Vth Semester)

Name of the Paper:- COMPUTER NETWORKS(1-3 DAYS)

Class: B.C.A.III Year

Name of the Teachers (Section wise): NITIKA GOEL

WEEK	DATE	TOPICS
1	October (6 - 9)	GENERAL INTRODUCTION
		HOLIDAY - 07.10.2021 - Maharaja Agarsen Jayanti
SUNDAY - 10.10.2021		
2	October (11-16)	INTRODUCTION OF NETWORKING,USES OF NETWORKING
		TYPE OF NETWORKING
		CONTINUE
		HOLIDAY - 15.10.2021 - DUSSEHRA
SUNDAY - 17.10.2021		
3	October (18-23)	TOPOLOGIES
		CONTINUE
		Holiday - 20.10.2021 - Maharishi Valmiki Jayanti
SUNDAY - 24.10.2021		
4	October (25 -30)	NETWORK HARDWARE COMPONENTS
		CONNECTORS
		REVISE OF PREVIOUS TOPICS
VACATIONS: 31.10.2021 to 07.11.2021 - DIWALI BREAK		
5	November (8 -13)	TRANSCEIVERS , REPEATERS
		HUBS , NETWORK INTERFACE CARDS
		PC CARDS, BRIDGES
SUNDAY - 14.11.2021		

6	November (15 -20)	SWITHES , ROUTERS , GATEWAYS
		NETWORK SOFTWARE
		TEST
		Holiday -19.11.2021 - Guru Nanak Dev Jayanti
SUNDAY - 21.11.2021		
7	November (22-27)	CONNECTION ORIENTED AND CONNECTIONLESS SERVICES
		PRESENTATION OF TOPICS
		REVISE
SUNDAY - 28.11.2021		
8	November (29-30) December (1-4)	OSI REFERENCE MODEL
		CONTINUE
		CONTINUE
SUNDAY - 5.12.2021		
9	December (6-11)	NETWORKING MODELS
		CLIENT SERVER MODEL, PEER TO PEER MODEL
		WEB BASED AND EMERGING FILE MODEL
SUNDAY - 12.12.2021		
10	December (13-18)	ANALOG AND DIGITAL DATA SIGNALS
		BANDWIDTH , CAPACITY, BAUD RATE
		TRANSMISSION IMPAIRMENT
SUNDAY - 19.12.2021		
11	December (20-25)	GUIDED TRANSMISSION MEDIA
		WIRELESS TRANSMISSION , COMMUNICATION SATELLITE
		GENERAL DISCUSSION
		Holiday -25.12.2021 - Christmas
SUNDAY - 26.12.2021		

12	December (27-31)	SWITCHING
		MULTIPLEXING
		MODEMS AND MODULATION TECHNIQUES
	January (1)	
SUNDAY -02.01.2022		
13	January (3-8)	ADSL AND CABLE MODEMS
		DATA LINK LAYER ISSUES, ERROR DETECTION AND CORRECTION
		SLIDING WINDOW PROTOCOL
SUNDAY - 09.01.2022		
14	January (10-15)	MEDIA ACCESS CONTROL , ALOHA
		CSMA , COLLISION FREE PROTOCOLS
		REVISE
SUNDAY - 16.01.2022		
15	January (17-22)	INTRODUCTION TO LAN TECHNOLOGIES
		ETHERNET , TOKEN RING
		INTRO TO WIRELESS LAN AND BLUETOOTH
SUNDAY - 23.01.2022		
16	January (24-29)	ROUTING ALGORITHMS
		LINK STATE ROUTING, HIREACHICAL ROUTING
		Holiday - 26.01.2022 - Republic day
SUNDAY - 30.01.2022		

17	January(31)	CONGESTION CONTROL
	February(1-4)	TRAFFIC SHAPING, CHOKE PACKETS
		TEST
Holiday - 05.02.2022 - Vasant Panchami		
SUNDAY - 6.02.2022		
18	February (7-12)	LOAD SHEDDING
		ELEMENT OF TRANSPORT PROTOCOLS
		NETWORK SECURITY ISSUES
SUNDAY - 13.02.2022		
19	February (14-19)	SECURITY ATTACKS
		ENCRYPTION METHODS
		DIGITAL SIGNATURE, DIGITAL CERTIFICATES
SUNDAY - 20.02.2022		
20	February (21-22)	

**I.B. (PG) COLLEGE, PANIPAT
(SESSION 2021-2022)**

Teaching Term : (06.10.2021 to 22.02.2022)

(Odd Semester)

Weekly Lesson Plan UG (Vth Semester)

Name of the Paper:- Programming Using Visual Basic

Class: BCA IIIrd Year

Name of the Teachers (Section wise): PROF. VINAY BHARTI

WEEK	DATE	TOPICS
1	October (6 - 9)	ORIENTATION
		HOLIDAY - 07.10.2021 - Maharaja Agarsen Jayanti
		ORIENTATION
		ORIENTATION
SUNDAY - 10.10.2021		
2	October (11-16)	HAVAN CEREMONY
		Introduction to VB: Visual & Non-Visual programming
		Procedural, Object-Oriented
		Object-Based and Event-Driven Programming Languages
		HOLIDAY - 15.10.2021 - DUSSEHRA
		VB as Even-Driven and Object-Based Language
SUNDAY - 17.10.2021		
3	October (18-23)	CONTINUE...
		CONTINUE...
		Holiday - 20.10.2021 - Maharishi Valmiki Jayanti
		CONTINUE...
		CONTINUE...
		CONTINUE...
SUNDAY - 24.10.2021		
4	October (25 -30)	VB Environment: Menu bar, Toolbar, Project explorer
		Toolbox, Properties Window, Form Designer
		Form Layout, Immediate window
		Default Controls in Tool Box Visual Development and Event Driven programming
		CONTINUE...
		CONTINUE...
VACATIONS: 31.10.2021 to 07.11.2021 - DIWALI BREAK		
5	November (8 -13)	Constants: Named & Intrinsic, Operators: Arithmetic
		Relational & Logical operators
		CONTINUE...
		Input/output in VB: Various Controls for I/O
		CONTINUE...
		Message box, Input Box
SUNDAY - 14.11.2021		

6	November (15 -20)	CONTINUE...
		Print statement.
		CONTINUE...
		REVISION
		Holiday -19.11.2021 - Guru Nanak Dev Jayanti
		REVISION
SUNDAY - 21.11.2021		
7	November (22-27)	CLASS TEST (VB IDE)
		PRESENTATION (DATA TYPES AND OPERATORS)
		CONTINUE...
		CONTINUE...
		CONTINUE...
		CONTINUE...
SUNDAY - 28.11.2021		
8	November (29-30) December (1-4)	Select-Case
		CONTINUE...
		PROGRAMMING EXAMPLES
		PROGRAMMING EXAMPLES
		REVISION
		CONDITIONAL TEST (CONTROL STRUCTURE)
SUNDAY - 5.12.2021		
9	December (6-11)	Looping Statements in VB: do-loop
		CONTINUE...
		CONTINUE...
		CONTINUE...
		PROGRAMMING EXAMPLES
		PROGRAMMING EXAMPLES
SUNDAY - 12.12.2021		
10	December (13-18)	For-Next, While-Wend
		PROGRAMMING EXAMPLES
		PROGRAMMING EXAMPLES
		PROGRAMMING EXAMPLES
		Exit statement, Nested Control Structure
		PROGRAMMING EXAMPLES
SUNDAY - 19.12.2021		
11	December (20-25)	PRESENTATION (FIRST UNIT)
		Arrays: Declaring and using Arrays, One-dimensional
		CONTINUE...
		CONTINUE...
		PROGRAMMING EXAMPLES
		Holiday -25.12.2021 - Christmas
SUNDAY - 26.12.2021		

12	December (27-31)	Two-dimensional and Multi-dimensional Arrays
		CONTINUE...
		CONTINUE...
		PROGRAMMING EXAMPLES
	January (1)	PROGRAMMING EXAMPLES
SUNDAY - 02.01.2022		
13	January (3-8)	Static and Dynamic arrays
		CONTINUE...
		PROGRAMMING EXAMPLES
		Array of Arrays
		CONTINUE...
		PROGRAMMING EXAMPLES
SUNDAY - 09.01.2022		
14	January (10-15)	Procedures: General & Event Procedures
		CONTINUE...
		CONTINUE...
		Subroutines, Functions,
		CONTINUE...
		CONTINUE...
SUNDAY - 16.01.2022		
15	January (17-22)	Calling Procedures
		CONTINUE...
		Arguments -Passing Mechanisms
		CONTINUE...
		CONTINUE...
		REVISION
SUNDAY - 23.01.2022		
16	January (24-29)	REVISION
		TEST (ARRAY)
		Holiday - 26.01.2022 - Republic day
		Optional Arguments
		CONTINUE...
		CONTINUE...
SUNDAY - 30.01.2022		

17	January(31)	Named Arguments
	February(1-4)	CONTINUE...
		CONTINUE...
		Functions Returning Custom Data Types
		CONTINUE...
Holiday - 05.02.2022 - Vasant Panchami		
SUNDAY - 6.02.2022		
18	February (7-12)	CONTINUE...
		CONTINUE...
		Simple Program Development in VB
		CONTINUE...
		CONTINUE...
		CONTINUE...
SUNDAY - 13.02.2022		
19	February (14-19)	REVISION
		REVISION
		REVISION
		REVISION
		REVISION
		REVISION
SUNDAY - 20.02.2022		
20	February (21-22)	REVISION
		REVISION

**I.B. (PG) COLLEGE, PANIPAT
(SESSION 2021-2022)**

Teaching Term : (06.10.2021 to 22.02.2022)

(Odd Semester)

Weekly Lesson Plan UG (Vth Semester)

Name of the Paper:- MULTIMEDIA

Class: BCA IIIrd Year

Name of the Teachers (Section wise): PROF. NEETU MANOCHA

WEEK	DATE	TOPICS
1	October (6 - 9)	
		HOLIDAY - 07.10.2021 - Maharaja Agarsen Jayanti
		ORIENTATION PROGRAMME & LIBRARY VISIT
		ORIENTATION PROGRAMME & LIBRARY VISIT
SUNDAY - 10.10.2021		
2	October (11-16)	HAWAN & INAUGURATION SESSION
		TIME-TABLE DISPLAY & DISCUSSION
		HOLIDAY - 15.10.2021 - DUSSEHRA
		Discussion of Syllabus
SUNDAY - 17.10.2021		
3	October (18-23)	
		Holiday - 20.10.2021 - Maharishi Valmiki Jayanti
		Multimedia Basics Concepts, Definition
		Applications
	Hypermedia and Multimedia	
SUNDAY - 24.10.2021		
4	October (25 -30)	
		Multimedia Hardware and Software
		Revision
		Software Tools
VACATIONS: 31.10.2021 to 07.11.2021 - DIWALI BREAK		
5	November (8 -13)	
		Presentation Tools
		Multimedia Authoring - INTRODUCTION
	Features	
SUNDAY - 14.11.2021		

6	November (15 -20)	
		Multimedia Authoring - Types
		Holiday -19.11.2021 - Guru Nanak Dev Jayanti
SUNDAY - 21.11.2021		
7	November (22-27)	
		VRML History
		VRML Features
		Images, Data Types
	File Formats, Color Models in Images and Video	
SUNDAY - 28.11.2021		
8	November (29-30) December (1-4)	
		Video, Types of Video Signals
		Video Standards
SUNDAY - 5.12.2021		
9	December (6-11)	
		Video Standards
		Digital Audio, Analog vs. Digital Audio
		Digitization of Sound
SUNDAY - 12.12.2021		
10	December (13-18)	
		Digital Audio File Formats
		Assignment - 1 on 1st Unit
	Quantization and Transmission of Audio	
SUNDAY - 19.12.2021		
11	December (20-25)	
		Coding of Audio
		Conditional Test on 2nd Unit
	Holiday -25.12.2021 - Christmas	
SUNDAY - 26.12.2021		

12	December (27-31) January (1)	
		Pulse Code Modulation
		Differential Coding of Audio
		Lossless Predictive Coding
SUNDAY -02.01.2022		
13	January (3-8)	
		Compression Techniques
		Types of Compression Techniques
		Types of Coding
SUNDAY - 09.01.2022		
14	January (10-15)	
		Types of Coding
		Assignment - 2 on Illrd Unit
		Image and Video Compression Techniques
SUNDAY - 16.01.2022		
15	January (17-22)	
		Image and Video Compression Techniques
		JPEG Standards for Image Compression
		Video Compression Techniques
SUNDAY - 23.01.2022		
16	January(24-29)	
		Holiday - 26.01.2022 - Republic day
		Video Compression Techniques
		Differenial Coding of Audio
		Lossless Predictive Coding
SUNDAY - 30.01.2022		

17		
	January(31)	
	February(1-5)	Compression Techniques
		Query on Problems
		Holiday - 5.02.2022 - Vasant Panchami
		SUNDAY - 6.02.2022
18	February (7-12)	
		Revision
		Types of Compression Techniques AGAIN
		Types of Coding
		SUNDAY - 13.02.2022
19	February (14-19)	
		REVISION
		REVISION
		REVISION
		SUNDAY - 20.02.2022
20	February (21-22)	REVISION
		Revision