

I.B. (PG) COLLEGE, PANIPAT

SESSION 2020-2021

Weekly Lesson Plan (Odd Semester)

(5th Semester)

Name of the Paper:- WEB DESIGNING

Class: BCA III Year

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

WEEK	DATE	TOPICS
1	November (2 -3), (5 - 7)	
SUNDAY - 08.11.2020		
2	November (9-13)	
		So & Introduction
		Evolution & History of WWW
		Intro. To Internet& WWW
HOLIDAY - 14.11.2020 (Diwali)		
SUNDAY - 15.11.2020		
3	November (16-21)	
		URL's,Searching & Web Casting Tech.
		Web Servers,hyper text transfer protocols
		WWW: Features, Web Browsers
SUNDAY - 22.11.2020		
4	November (23-28)	
		REVISION
		Search Engines
		Search tools
SUNDAY - 29.11.2020		
HOLIDAY - 30.11.2020 (Guru Nanak Dev Jayanti)		
5	December (1-5)	
		Steps for developing website
		Home Page, Domain names
		Choosing the contents
SUNDAY - 06.12.2020		

6	December (07-12)	
		Internet services provider
		Planning & Designing Web site
		Creating a web site
SUNDAY - 13.12.2020		
7	December (14-19)	
		Web Publishing
		Hosting site & Assignment 1
		Intro. To HTML: Hypertext & HTML, features
SUNDAY - 20.12.2020		
8	December (21-24) (26)	
		HTML Tags, Header, Title, Body
		Paragraph, Ordered/Unordered line
		Creating Links, Headers
HOLIDAY - 25.12.2020 (Christmas)		
SUNDAY - 27.12.2020		
9	December (28-31) January (1-2)	
		Text Styles, Text Structuring
		Page Layout, Insertion & movement of text
		Text colors & Background, Formatting Text
SUNDAY - 03.01.2021		
10	January (4-9)	
		IST ASSIGNMENT
		Insertion of Image, Movement of Image
		Images: Types of images & Assignment 2
SUNDAY - 10.01.2021		
11	January (11-16)	
		Ordered & Unordered Lists
		Table Handling fun. Like column
		CONTD.
SUNDAY - 17.01.2021		

12	January (18-19) (21-23)	
		Inserting Graphics
		REVISION
Table Handling fun. Like rows		
HOLIDAY - 20.01.2021 (Guru Gobind Singh Jayanti)		
SUNDAY - 24.01.2021		
13	January (25) (27-30)	
		Width, Colours
		CONDITIONAL TEST
Frame creations & Layouts		
HOLIDAY - 26.01.2021 (Republic Day)		
SUNDAY - 31.01.2021		
14	February (01-06)	
		Working with forms & Menus
		CONTD.
REVISION		
SUNDAY - 07.02.2021		
15	February (08-13)	
		2ND ASSIGNMENT
		Working with Buttons like Radio, Check box
CONTD.		
SUNDAY - 14.02.2021		
16	February (15 - 20)	
		CREATING WEBSITE PAGE
		CONTD.
REVISION		

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SESSION 2020-2021

Weekly Lesson Plan (Odd Semester)

(5th Semester)

Name of the Paper:- OPERATING SYSTEM

Class: BCA III Year

Name of the Teacher (Section wise): DR.RANJU

WEEK	DATE	TOPICS
1	November (2 -3), (5 - 7)	TIME-TABLE DISPLAY & DISCUSSION
		Syllabus Discussion
		Introduction to Operating System
		Charcterstics and Components
		Contd..
SUNDAY - 08.11.2020		
2	November (9-13)	Function and Examples
		Contd..
		Types of OS
HOLIDAY - 14.11.2020 (Diwali)		
SUNDAY - 15.11.2020		
3	November (16-21)	Contd..
		Contd..
		Contd..
		System Call and System Programs
		Contd..
		Contd..
SUNDAY - 22.11.2020		
4	November (23-28)	Process Control and File Manipulation
		Contd..
		Contd..
		Device Manipulation and Information Maintenance
		Contd..
SUNDAY - 29.11.2020		
HOLIDAY - 30.11.2020 (Guru Nanak Dev Jayanti)		
5	December (1-5)	Contd..
		Process Management Unit II
		Contd..
		State and PCB
		Contd..
SUNDAY - 06.12.2020		

6	December (07-12)	Contd..
		Process Scheduling
		Contd..
		Contd..
		Contd..
SUNDAY - 13.12.2020		
7	December (14-19)	Revision
		CLASS TEST
		Dealock Avoidance, Prevention
		Contd..
		Deadlock detection and Recovery
SUNDAY - 20.12.2020		
8	December (21-24) (26)	Contd..
		Memory Management - Introduction
		Contd..
		Swapping
		Contd..
HOLIDAY - 25.12.2020 (Christmas)		
SUNDAY - 27.12.2020		
9	December (28-31) January (1-2)	Contd..
		Memory Allocation
		Contd..
		Fragmentation
		Contd..
SUNDAY - 03.01.2021		
10	January (4-9)	Assignment - 1 on CPU Scheduling
		Segmentation
		Contd..
		Contd..
		Contd..
		Conditonal Test
SUNDAY - 10.01.2021		
11	January (11-16)	Virtual Memory - Unit IV
		Contd..
		Demand Paging,
		Contd..
		Page Replacement
SUNDAY - 17.01.2021		

12	January (18-19) (21-23)	Page Replacement Algorithm
		Contd..
		Contd..
		Contd..
HOLIDAY - 20.01.2021 (Guru Gobind Singh Jayanti)		
SUNDAY - 24.01.2021		
13	January (25) (27-30)	Contd..
		Contd..
		Contd..
		Assignment - 2 on Types of OS, Page Replacement Algorithm
HOLIDAY - 26.01.2021 (Republic Day)		
SUNDAY - 31.01.2021		
14	February (01-06)	Revision
		Revision
		Revision
		CLASS TEST
		discussion
SUNDAY - 07.02.2021		
15	February (08-13)	Revision
		Revision
		Revision
		CLASS TEST
		discussion
SUNDAY - 14.02.2021		
16	February (15 - 20)	Revision
		Revision
		Revision
		CLASS TEST
		discussion

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Weekly Lesson Plan (Odd Semester)

(5th Semester)

Name of the Paper:- Artificial Intelligence

Class: BCA III Year

Name of the Teachers (Section wise): Prof. GEETIKA NARANG

WEEK	DATE	TOPICS
1	November (2 -3), (5 - 7)	
SUNDAY - 08.11.2020		
2	November (9-13)	
HOLIDAY - 14.11.2020 (Diwali)		
SUNDAY - 15.11.2020		
3	November (16-21)	
SUNDAY - 22.11.2020		
4	November (23-28)	
		Intelligence, AI Concepts, Various Def. of AI
		Knowledge, Knowledge Pyramid
		People & Computers
SUNDAY - 29.11.2020		
HOLIDAY - 30.11.2020 (Guru Nanak Dev Jayanti)		
5	December (1-5)	
		Characteristics of AI Problems, Problem Representation
		Components of AI, AI Evolution
		Application Areas, History
SUNDAY - 06.12.2020		

6	December (07-12)	
		The Turing Test,The Revised Turing Test
		Expert System:Components,Knowledge Base,Inf. Engine
		User Interface,Features
SUNDAY - 13.12.2020		
7	December (14-19)	
		Expert System Life Cycle & Assignment 1
		Categories,Rule Based vs Model Based Expert System
		Advantages & Limitation
SUNDAY - 20.12.2020		
8	December (21-24) (26)	
		Developing an Expert System,Identification
		Conceptualization,Formalization
HOLIDAY - 25.12.2020 (Christmas)		
SUNDAY - 27.12.2020		
9	December (28-31) January (1-2)	
		Implementation,Testing
		Using an Expert System,Appliocation Areas
		AI Search Process:Bnite Force Search-DFS
SUNDAY - 03.01.2021		
10	January (4-9)	
		BFS,Heuristic Search
		Hill Climbing&Class Test
		Constraints Satisfaction,Mean End Analysis
SUNDAY - 10.01.2021		
11	January (11-16)	
		Continue
		Best First Search
		A* Algorithm
SUNDAY - 17.01.2021		

12	January (18-19) (21-23)	
		AO* Algorithm
		Beam Search
Natural language Processing:Introduction		
HOLIDAY - 20.01.2021 (Guru Gobind Singh Jayanti)		
SUNDAY - 24.01.2021		
13	January (25) (27-30)	
		Need Coal,Fundamental Problem in Natural Language
		Continue & Assignment 2
How People Overcome Natural Language		
HOLIDAY - 26.01.2021 (Republic Day)		
SUNDAY - 31.01.2021		
14	February (01-06)	
		Speech Recognition:Introduction
		Conditional Test
Advantage & Disadvantages		
SUNDAY - 07.02.2021		
15	February (08-13)	
		Introduction to Robotics:Parts
		Controlling a Robot
Intelligent Robot,Mobile Robot		
SUNDAY - 14.02.2021		
16	February (15 - 20)	
		Revision
		Revision
Revision		

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Weekly Lesson Plan (Odd Semester)

(5th Semester)

Name of the Paper:- Computer Network

Class: BCA III Year

Name of the Teachers (Section wise): Prof. GEETIKA NARANG

WEEK	DATE	TOPICS
1	November (2 -3), (5 - 7)	
SUNDAY - 08.11.2020		
2	November (9-13)	
HOLIDAY - 14.11.2020 (Diwali)		
SUNDAY - 15.11.2020		
3	November (16-21)	
SUNDAY - 22.11.2020		
4	November (23-28)	Introduction to Data Communication & Computer Network
		Uses of Computer Network, Types of Computer Network
		Network Topologies
		Network Hardware Components: Connectors
		Transceivers, Repeaters
SUNDAY - 29.11.2020		
HOLIDAY - 30.11.2020 (Guru Nanak Dev Jayanti)		
5	December (1-5)	Hubs, Network Interface Cards
		Pc Cards, Bridges, Switches
		Routers
		Gateways
		Network Software: Network Design Issues and Protocols
SUNDAY - 06.12.2020		

6	December (07-12)	Countine
		Connection Oriented and Connection Less Services
		Assignment 1 Class Test
		OSI Reference Model
		Networking Models:Distributed Systems
		Client/Server Models
SUNDAY - 13.12.2020		
7	December (14-19)	Peer to Peer Model
		Web Based Model And Emerging file-System
		Analog & Digital Data Signals
		Bandwidth & Data Rate
		Capacity,Baud Rate
		Transmission Impairment
SUNDAY - 20.12.2020		
8	December (21-24) (26)	
		Data Rate Limits Guided Tansmission Media
		Continue
		Wireless Transmission,Communication Satellites
		Switching
HOLIDAY - 25.12.2020 (Christmas)		
SUNDAY - 27.12.2020		
9	December (28-31) January (1-2)	Continue
		Multiplexing
		Modem & Modulation Techniques
		Continue
		ADSL & Cable Modems
		Data Link Layer Issues
SUNDAY - 03.01.2021		
10	January (4-9)	Error Detection
		Error Correction
		Sliding Window Protocols:One Bit
		Go Back N
		Selective Repeat
		Media Access Control:Aloha
SUNDAY - 10.01.2021		
11	January (11-16)	Slotted Aloha
		CSMA, Collision free Protocol
		Continue
		Introduction to LAN Technologies
		Ethernet
		Switching Ethernet
SUNDAY - 17.01.2021		

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Weekly Lesson Plan (Odd Semester)

(5th Semester)

Name of the Paper:- Programming Using Visual Basic

Class: BCA III Year

Name of the Teachers (Section wise): Prof. DEEPTY JUNEJA

WEEK	DATE	TOPICS
1	November (2 -3), (5 - 7)	Introduction to VB: Visual & Non-Visual programming
		Procedural, Object-Oriented Programming
SUNDAY - 08.11.2020		
2	November (9-13)	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
HOLIDAY - 14.11.2020 (Diwali)		
SUNDAY - 15.11.2020		
3	November (16-21)	Form Designer, Form Layout, Immediate window,
		Default Controls in Tool Box Visual Development and Event Driven programming
		Basics of Programming: Variables: Declaring Variables, Types of variables
SUNDAY - 22.11.2020		
4	November (23-28)	Converting Variables Types, User Defined Data Types, Forcing Variable Declaration
		Scope & Lifetime of Variables. Constants: Named & Intrinsic
		Operators: Arithmetic, Relational & Logical operators
SUNDAY - 29.11.2020		
HOLIDAY - 30.11.2020 (Guru Nanak Dev Jayanti)		
5	December (1-5)	Input/output in VB: Various Controls for I/O, Message box
		Input Box, Print statement, Assignment1
SUNDAY - 06.12.2020		

6	December (07-12)	Decision Statements in VB - if statement, if-then-else
		select-case and their formats
		Looping Statements in VB: do-loop, for-next, while-wend
SUNDAY - 13.12.2020		
7	December (14-19)	Exit statement, Nested Control Structure
		Arrays: Declaring and using Arrays
		One-dimensional
SUNDAY - 20.12.2020		
8	December (21-24) (26)	Two-dimensional and Multi-dimensional Arrays
		Static and Dynamic Array, Array of Arrays.
		Procedures: General & Event Procedures, Subroutines
HOLIDAY - 25.12.2020 (Christmas)		
SUNDAY - 27.12.2020		
9	December (28-31) January (1-2)	Functions, Calling Procedures,
		Arguments Passing Mechanisms,
		Optional Arguments, Named Arguments
SUNDAY - 03.01.2021		
10	January (4-9)	Functions Returning Custom Data Types
		Assignment2
		Simple Program Development in VB such as Sum of Numbers
SUNDAY - 10.01.2021		
11	January (11-16)	Problem Discussion
		Conditional Test
		Program of Greatest among Numbers
SUNDAY - 17.01.2021		

12	January (18-19) (21-23)	Checking Even/Odd Number, HCF of Two Numbers
		Generate Prime Numbers
HOLIDAY - 20.01.2021 (Guru Gobind Singh Jayanti)		
SUNDAY - 24.01.2021		
13	January (25) (27-30)	Query Session
		Generate Fibonacci Series
HOLIDAY - 26.01.2021 (Republic Day)		
SUNDAY - 31.01.2021		
14	February (01-06)	Factorial of a Number
		Searching
		Searching
SUNDAY - 07.02.2021		
15	February (08-13)	Sorting
		Sorting
		Sorting
SUNDAY - 14.02.2021		
16	February (15 - 20)	Revision
		Revision
		Revision

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Weekly Lesson Plan (Odd Semester)

(5th Semester)

Name of the Paper:- Multimedia Tools

Class: BCA III Year

Name of the Teachers (Section wise): Prof. AJMER SINGH

WEEK	DATE	TOPICS
1	November (2 -3), (5 - 7)	
SUNDAY - 08.11.2020		
2	November (9-13)	
HOLIDAY - 14.11.2020 (Diwali)		
SUNDAY - 15.11.2020		
3	November (16-21)	
SUNDAY - 22.11.2020		
4	November (23-28)	Multimedia: Basic Concept, Definition, Components
		Applications of Multimedia
		Hypermedia and Multimedia;
SUNDAY - 29.11.2020		
HOLIDAY - 30.11.2020 (Guru Nanak Dev Jayanti)		
5	December (1-5)	Multimedia Hardware and Software
		Multimedia Software Tools;
		Presentation Tools
SUNDAY - 06.12.2020		

6	December (07-12)	Introduction to Multimedia Authoring
		Types of Authoring Tools
		VRML: History, Features
SUNDAY - 13.12.2020		
7	December (14-19)	Images: Graphics/Image Data Types
		Types of Image file formats
		Color Models in Images and Video
SUNDAY - 20.12.2020		
8	December (21-24) (26)	Video: Introduction, Types of Video Signals
		Analog Video Standards
		Digital Video Standards
HOLIDAY - 25.12.2020 (Christmas)		
SUNDAY - 27.12.2020		
9	December (28-31) January (1-2)	Digital Audio: Basic Concepts
		Digitization of Sound
		MIDI
SUNDAY - 03.01.2021		
10	January (4-9)	Quantization and Transmission of Audio:
		Pulse Code Modulation
		Differential Coding of Audio
SUNDAY - 10.01.2021		
11	January (11-16)	Lossless Predictive Coding
		Compression Techniques: Introduction
		Types of Data Compression
SUNDAY - 17.01.2021		

12	January (18-19) (21-23)	Run-Length Coding
		Variable- Length Coding
		Dictionary-Based Coding
HOLIDAY - 20.01.2021 (Guru Gobind Singh Jayanti)		
SUNDAY - 24.01.2021		
13	January (25) (27-30)	Transform Coding
		Image and Video Compression Techniques
		JPEG Standard for Image Compression
HOLIDAY - 26.01.2021 (Republic Day)		
SUNDAY - 31.01.2021		
14	February (01-06)	JPEG Mode
		Video Compression Techniques
		MPEG
SUNDAY - 07.02.2021		
15	February (08-13)	
SUNDAY - 14.02.2021		
16	February (15 - 20)	