

I.B. (PG) COLLEGE, PANIPAT

LESSON PLAN

SESSION 2022-23 (01.09.2022 to 14.12.2022)

Weekly Lesson Plan

(Odd Semester)

UG (Vth Semester)

Name of the Paper:- Web Designing

Class: BCA III

Name of the Teacher(Section Wise) : Deepty Juneja

WEEK	DATE	TOPICS
1	September (6-10)	Introduction to Internet and World Wide Web
		Evolution and History of World Wide Web
		Basic Features; Web Browsers
SUNDAY - 11.09.2022		
2	September (12-17)	Basic Features; Web Servers;
		URLs; Searching
		Search Engines and Search Tools
SUNDAY - 18.09.2022		
3	September (19-24)	Revision 1st unit
		Steps for Developing Website
		Choosing the Contents; Home Page
HOLIDAY - 23.09.2022 (Shaheedi Divas/ Haryana War Heroes' Martydom Day)		
SUNDAY - 25.09.2022		
HOLIDAY - 26.09.2022 (Maharaja Agrasen Jayanti)		
4	September (27-30) October (1)	Domain Names
		Internet Service Provider
SUNDAY - 02.10.2022 & Holiday (Mahatma Gandhi Jayanti)		
5	October (3-8)	Planning and Designing Web Site
		Creating a Website
		Web Publishing>>>>Assignment
HOLIDAY - 05.10.2022 (Dussehra)		
SUNDAY - 09.10.2022 & Holiday (Maharishi Valmiki Jayanti)		

6	October (10-15)	Hosting Site
		Introduction to HTML
		Hypertext Transfer Protocol
SUNDAY - 16.10.2022		
7	October (17-21)	UNIT- TEST
		Web- Casting Techniques
		Hypertext and HTML;HTML Document Features
Diwali Break - 22.10.2022 to 26.10.2022		
8	October (27-29)	
SUNDAY - 30.10.2022		
9	October (31) November (1-5)	HTML Tags; Header, Title
		Body, Paragraph,
		Ordered/Unordered Line
HOLIDAY - 01.11.2022 (Haryana Day)		
SUNDAY - 06.11.2022		
10	November (7-12)	Creating Links;Headers
		Text Styles; ;
		Text Colors
HOLIDAY - 08.11.2022 (Guru Nanak Dev Jayanti)		
SUNDAY - 13.11.2022		
11	November (14-19)	Background
		Formatting Text,Page layouts
		Insertion of Text,Movement of Text>>>>Assignment
SUNDAY - 20.11.2022		
12	November (21-26)	Images: Types of Images,Insertion of Image
		Movement of Image
		Ordered and Unordered lists
SUNDAY - 27.11.2022		

13	November (28-30) December (1-3)	Inserting Graphics
		Table Handling Functions like Columns, Rows
		Width, Colours
SUNDAY - 04.12.2022		
14	December (5-10)	Frame Creation and Layouts
		Working with Forms and Menus
		Working with Buttons like Radio, Check Box
SUNDAY - 11.12.2022		
15	December (12-14)	Revision
		Revision
		Revision

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UG (Vth Semester)

Name of the Paper:- OPERATING SYSTEM - I

Class: BCA III

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

WEEK	DATE	TOPICS
1	September (6-10)	Syllabus Discussion
		Introduction to Operating System
		Charcterstics and Components
SUNDAY - 11.09.2022		
2	September (12-17)	Function and Examples
		Types of OS
		CONTD.
SUNDAY - 18.09.2022		
3	September (19-24)	Contd..
		Contd..
		System Call and System Programs
HOLIDAY - 23.09.2022 (Shaheedi Divas/ Haryana War Heroes' Martydom Day)		
SUNDAY - 25.09.2022		
HOLIDAY - 26.09.2022 (Maharaja Agrasen Jayanti)		
4	September (27-30) October (1)	Process Control and File Manipulation
		Device Manipulation and Information Maintenance
		CONTD..
SUNDAY - 02.10.2022 & Holiday (Mahatma Gandhi Jayanti)		
5	October (3-8)	Process Management Unit II
		State and PCB
		Process Scheduling
HOLIDAY - 05.10.2022 (Dussehra)		
SUNDAY - 09.10.2022 & Holiday (Maharishi Valmiki Jayanti)		

6	October (10-15)	CONTD..
		Revision
		Deadlock Unit III
SUNDAY - 16.10.2022		
7	October (17-21)	Characterization and Methods
		Dealock Avoidance, Prevention
		Deadlock detection and Recovery
Diwali Break - 22.10.2022 to 26.10.2022		
8	October (27-29)	Memory Management - Introduction
		Swapping
		Memory Allocation
SUNDAY - 30.10.2022		
9	October (31) November (1-5)	CONTD..
		Assignment - 1 on CPU Scheduling
		Segmentation
HOLIDAY - 01.11.2022 (Haryana Day)		
SUNDAY - 06.11.2022		
10	November (7-12)	FRAGMENTATION
		Contd..
		Conditonal Test
HOLIDAY - 08.11.2022 (Guru Nanak Dev Jayanti)		
SUNDAY - 13.11.2022		
11	November (14-19)	Virtual Memory - Unit IV
		CONTD.
		Demand Paging, Page Replacement
SUNDAY - 20.11.2022		
12	November (21-26)	Page Replacement Algorithm
SUNDAY - 27.11.2022		

13	November (28-30) December (1-3)	Assignment - 2 on Types of OS, Page Replacement Algorithm
		Thrashing and its Causing
		File Management
SUNDAY - 04.12.2022		
14	December (5-10)	File Attributes , Protection and File Recovery
		Contd..
		File Management methods and Operations
SUNDAY - 11.12.2022		
15	December (12-14)	QUERY ON PROBLEMS
		QUERY ON PROBLEMS
		QUERY ON PROBLEMS

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UG (V Semester)

Name of the Paper:- Artificial Intelligence

Class: BCA III

Name of the Teachers (Section Wise) : RITU BHARDWAJ

WEEK	DATE	TOPICS
1	September (6-10)	
		Intelligence
		AI Concepts
SUNDAY - 11.09.2022		
2	September (12-17)	
		Various definitions of AI,knowledge
		Knowledge pyramid
SUNDAY - 18.09.2022		
3	September (19-24)	
		Knowledge pyramid
		People and computer
HOLIDAY - 23.09.2022 (Shaheedi Divas/ Haryana War Heroes' Martydom Day)		
SUNDAY - 25.09.2022		
HOLIDAY - 26.09.2022 (Maharaja Agrasen Jayanti)		
4	September (27-30) October (1)	
		What people can do better than computer and vice versa
		What people can do better than computer and vice versa
SUNDAY - 02.10.2022 & Holiday (Mahatma Gandhi Jayanti)		
5	October (3-8)	
		Characterstics of AI problems
		Problem representation in AI
HOLIDAY - 05.10.2022 (Dussehra)		
SUNDAY - 09.10.2022 & Holiday (Maharishi Valmiki Jayanti)		

6	October (10-15)	
		Component of AI
		Component of AI
SUNDAY - 16.10.2022		
7	October (17-21)	
		Application area of AI
		Introduction to robotics:controlling robot ,mobile robot
		Introduction to robotics:controlling robot ,mobile robot
Diwali Break - 22.10.2022 to 26.10.2022		
8	October (27-29)	Test
		History of AI
		The turing test
SUNDAY - 30.10.2022		
9	October (31) November (1-5)	
		Expert System
		Component of Expert System
		Component of Expert System
HOLIDAY - 01.11.2022 (Haryana Day)		
SUNDAY - 06.11.2022		
10	November (7-12)	
		Knowledge base
		Inference engine
		Expert System life cycle
HOLIDAY - 08.11.2022 (Guru Nanak Dev Jayanti)		
SUNDAY - 13.11.2022		
11	November (14-19)	
		Categories of expert system
		Advantages and disadvantages of expert system
		Developing an expert system
SUNDAY - 20.11.2022		
12	November (21-26)	
		Identification ,conceptualization
		Formalization,Implementation,testing
		Using an expert System,Application area of expert system
SUNDAY - 27.11.2022		

13	November (28-30) December (1-3)	
		AI search process:Brute force serach-DFS,BFS
		Heuristic search,hill climbing
		contraint satisfaction,mean end analysis
SUNDAY - 04.12.2022		
14	December (5-10)	
		Best first search,A* Algorithm
		AO* algorithm
		Beam search, Natural language processing: introduction, need, goal
SUNDAY - 11.12.2022		
15	December (12-14)	
		Advantages and approachs of speech recognition
		Introduction to robotics:controlling robot ,mobile robot

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Name of the Paper:- COMPUTER NETWORKS

Class: BCA III

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

WEEK	DATE	TOPICS
1	September (6-10)	
		Introduction to data communication and Computer Network network topology
		Uses of computer network, types of computer network
SUNDAY - 11.09.2022		
2	September (12-17)	
		Network hardware Component
		Network software ,network designe issue Connection oriented and connectionless services
SUNDAY - 18.09.2022		
3	September (19-24)	
		Networking models OSI referance model
		Bandwidth, baud rate, transmission impairment, data rate limits
HOLIDAY - 23.09.2022 (Shaheedi Divas/ Haryana War Heroes' Martydom Day)		
SUNDAY - 25.09.2022		
HOLIDAY - 26.09.2022 (Maharaja Agrasen Jayanti)		
4	September (27-30) October (1)	
		Analog and digital data and signal, data rate,capacity Bandwidth,data rate ,capacity, baud rate
		Wireless transmission
SUNDAY - 02.10.2022 & Holiday (Mahatma Gandhi Jayanti)		
5	October (3-8)	
HOLIDAY - 05.10.2022 (Dussehra)		
SUNDAY - 09.10.2022 & Holiday (Maharishi Valmiki Jayanti)		

6	October (10-15)	
		Guided Transmission media,oral test
		Multiplexing
Communication satellites, switching		
SUNDAY - 16.10.2022		
7	October (17-21)	
		Modem and modulation techniques
		Data link layer designe issue
ADSLand Cable Modem		
Diwali Break - 22.10.2022 to 26.10.2022		
8	October (27-29)	Flow control,Media access contro
		Error detection and correction
		ALOHA and slotted ALOHA and difference
SUNDAY - 30.10.2022		
9	October (31) November (1-5)	
		CONDITIONAL TEST
		Ethernet,Switch ethernet and fast ethernet
		CSMA ,Into to Lan technology
HOLIDAY - 01.11.2022 (Haryana Day)		
SUNDAY - 06.11.2022		
10	November (7-12)	
		Gigabit ethernet,token ring
		Wireless LAN,Bluetooth
Shortest Path Routing		
HOLIDAY - 08.11.2022 (Guru Nanak Dev Jayanti)		
SUNDAY - 13.11.2022		
11	November (14-19)	
		VLANs,Routing, Routine algo
		Chock packeting,load shading, elements of tranfer protocol
SUNDAY - 20.11.2022		
12	November (21-26)	
		Distance vector Routing
		Link state routing, Hierarchical routing
CONTD..		
SUNDAY - 27.11.2022		

13	November (28-30) December (1-3)	
		Digital signature,digital certificate, encryption method
		Problem discussion
		REVISION
SUNDAY - 04.12.2022		
14	December (5-10)	
		Assignment, Congestion control, Trafficking shaping
		Chock packeting,load shading, elements of tranfer protocol
		CONTD..
SUNDAY - 11.12.2022		
15	December (12-14)	
		QUERY ON PROBLEMS
		QUERY ON PROBLEMS

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Name of the Paper:- Visual basic

Class: BCA III

Name of the Teachers (Section Wise) : VINAY BHARTI

WEEK	DATE	TOPICS
1	September (6-10)	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,
SUNDAY - 11.09.2022		
2	September (12-17)	
		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
SUNDAY - 18.09.2022		
3	September (19-24)	Basics of Programming: Variables: Declaring Variables, Types of variables, Converting Variables Types, User Defined Data
HOLIDAY - 23.09.2022 (Shaheedi Divas/ Haryana War Heroes' Martydom Day)		
SUNDAY - 25.09.2022		
HOLIDAY - 26.09.2022 (Maharaja Agrasen Jayanti)		
4	September (27-30) October (1)	Forcing Variable Declaration, Scope & Lifetime of Variables.
		Constants: Named & Intrinsic, Operators: Arithmetic, Relational & Logical operators,
SUNDAY - 02.10.2022 & Holiday (Mahatma Gandhi Jayanti)		
5	October (3-8)	Input/output in
		VB: Various Controls for I/O, Message box, Input Box, Print statement. Programs
HOLIDAY - 05.10.2022 (Dussehra)		
SUNDAY - 09.10.2022 & Holiday (Maharishi Valmiki Jayanti)		

6	October (10-15)	
		Revision (LOOPS)
		Programs
SUNDAY - 16.10.2022		
7	October (17-21)	
		Programs
Diwali Break - 22.10.2022 to 26.10.2022		
8	October (27-29)	
		Decision Statements in VB - if statement, if-then-else, select-case;
SUNDAY - 30.10.2022		
9	October (31) November (1-5)	
		Programs
HOLIDAY - 01.11.2022 (Haryana Day)		
SUNDAY - 06.11.2022		
10	November (7-12)	
		Assignment-I
HOLIDAY - 08.11.2022 (Guru Nanak Dev Jayanti)		
SUNDAY - 13.11.2022		
11	November (14-19)	
		Programs
SUNDAY - 20.11.2022		
12	November (21-26)	
		Looping Statements in VB: do-loop, for-next, while-wend; Exit statement
SUNDAY - 27.11.2022		

13	November (28-30) December (1-3)	Nested Control Structure; Arrays: Declaring and using Arrays, One-dimensional, Two-dimensional and Multi-dimensional Arrays, Static and Dynamic arrays, Array of Arrays.
		Conditional Test UNIT II
SUNDAY - 04.12.2022		
14	December (5-10)	Procedures: General & Event Procedures, Subroutines, Functions, Calling Procedures, Arguments -Passing Mechanisms, Optional Arguments, Named Arguments, Functions Returning Custom DataTypes
		Assignment-II
SUNDAY - 11.12.2022		
15	December (12-14)	Simple Program Development in VB such as Sum of Numbers, Greatest among Numbers, Checking
		Even/Odd Number, HCF of Two Numbers, Generate Prime Numbers, Generate Fibonacci Series,
		Factorial of a Number, Searching, Sorting, etc.

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UG (V Semester)

Name of the Paper:- Multimedia Tools

Class: BCA Final

Name of the Teachers (Section Wise) : Karuna

WEEK	DATE	TOPICS
1	September (6-10)	Multimedia: Basic Concept, Definition
		Components of Multimedia
		Applications of Multimedia
		Hypermedia and Multimedia
		Multimedia Hardware and Software
SUNDAY - 11.09.2022		
2	September (12-17)	Multimedia Software Tools
		Presentation Tools
		Multimedia Authoring Introduction
		Features & Types of Authoring Tools
		Card or Page-Based, Icon- Based
Query Session		
SUNDAY - 18.09.2022		
3	September (19-24)	VRML: History, Features
		Images: Graphics/Image Data Types, File Formats
		Color Models in Images and Video
		Color Models in Images and Video
		Assignment 1
HOLIDAY - 23.09.2022 (Shaheedi Divas/ Haryana War Heroes' Martydom Day)		
SUNDAY - 25.09.2022		
HOLIDAY - 26.09.2022 (Maharaja Agrasen Jayanti)		
4	September (27-30) October (1)	Video: Introduction, Types of Video Signals
		Analog and Digital Video
		Analog Video Standards: NTSC
		Analog Video Standards: PAL
		Analog Video Standards: SECA
SUNDAY - 02.10.2022 & Holiday (Mahatma Gandhi Jayanti)		
5	October (3-8)	Digital Video Standards: Chroma Subsampling
		Digital Video Standards: CCIR Standards
		Digital Video Standards: HDTV
		Digital Audio: Basic Concepts
		Analog vs. Digital Audio
HOLIDAY - 05.10.2022 (Dussehra)		
SUNDAY - 09.10.2022 & Holiday (Maharishi Valmiki Jayanti)		

6	October (10-15)	Digitization of Sound
		Digital Audio File Formats
		MIDI
		Sessional
		Quantization and Transmission of Audio
		Coding of Audio
SUNDAY - 16.10.2022		
7	October (17-21)	Pulse Code Modulation
		Differential Coding of Audio
		Lossless Predictive Coding
		DPCM
		Assignment 2
Diwali Break - 22.10.2022 to 26.10.2022		
8	October (27-29)	DM
		Class Test
		ADPCM
SUNDAY - 30.10.2022		
9	October (31) November (1-5)	Compression Techniques: Introduction
		Types of Data Compression
		Run-Length Coding
		Variable- Length Coding
		Query Session
HOLIDAY - 01.11.2022 (Haryana Day)		
SUNDAY - 06.11.2022		
10	November (7-12)	Class Test
		Dictionary-Based Coding
		Transform Coding
		Revision
		Query Session
HOLIDAY - 08.11.2022 (Guru Nanak Dev Jayanti)		
SUNDAY - 13.11.2022		
11	November (14-19)	Class Activity
		Revision
		Class Test
		Image and Video Compression Techniques
		JPEG Standard for Image Compression
		Revision
SUNDAY - 20.11.2022		
12	November (21-26)	Query Session
		Revision
		JPEG Mode
		Revision
		Video Compression Techniques: H.261
		Video Compression Techniques: H.261
SUNDAY - 27.11.2022		

13	November (28-30) December (1-3)	Class Test
		Video Compression Techniques: H.263
		Video Compression Techniques: H.263
		Revision
		Video Compression Techniques: MPEG
		Video Compression Techniques: MPEG
SUNDAY - 04.12.2022		
14	December (5-10)	Query Session
		Class Test
		Run-Length Coding
		Variable- Length Coding
		Dictionary-Based Coding
		Transform Coding
SUNDAY - 11.12.2022		
15	December (12-14)	Revision
		Query Session
		Revision