

I.B. (PG) COLLEGE, PANIPAT

LESSON PLAN

SESSION 2024-25 (01.08.2024 to 22.11.2024)

Weekly Lesson Plan (Odd Semester)

UG (1st / III / V - Semester) - 5TH

Name of the Paper:- COMPUTER NETWORK

Class: BCA III

Name of the Teachers (Section Wise) : Dr. Neetu Manocha (Bhatia)

WEEK	DATE	TOPICS
1	August (1-3)	
		Display of Time Table
SUNDAY - 04.08.2024		
2	August (5-10)	Discussion of Syllabus
		Introduction to COMPUTER NETWORKS
		07.08.2024 - TEEJ
SUNDAY - 11.08.2024		
3	August (12-17)	Introduction to data communication and Computer Network
		network topology
		Uses of computer network,Types of computer network
		15.08.2024 - INDEPENDENCE DAY
SUNDAY - 18.08.2024		
4	August (19-24)	19.08.2024 - RAKSHABANDHAN
		Network hardware Component
		Network software ,network designe issue
SUNDAY - 25.08.2024		
5	August (26-31)	26.08.2024 - JANAMASHTMI
		Connection oriented and connectionless services
		Networking models
SUNDAY - 01.09.2024		

6	September	(2-7)	OSI reference model
			Bandwidth, baud rate, transmission impairment, data rate limits
			AnalOg and digital data and signal, data rate,capacity
SUNDAY - 08.09.2024			
7	September 14)	(9-	Bandwidth,data rate ,capacity, baud rate
			Wireless transmission
			Guided Transmission media,oral test
SUNDAY - 15.09.2024			
8	September 21)	(16-	Multiplexing
			Communication satellites, switching
			Modem and modulation techniques
SUNDAY - 22.09.2024			
HOLIDAY 23.09.2024 - SHAHEEDI DIVAS/HARYANA WAR HEROES' MARTYRDOM DAY			
9	September 28)	(24-	Data link layer designe issue
			ADSLand Cable Modem
			Flow control,Media access contro
SUNDAY - 29.09.2024			
10	September (30) October (1, 4-5))		Error detection and correction
			ASSIGNMENT 1
			02.10.2024 - MAHATMA GANDHI JAYANTI
			03.10.2024 - (MAHARAJA AGRASEN JAYANTI)
SUNDAY - 06.10.2024			

11	October	(7-11)	Ethernet,Switch ethernet and fast ethernet
			CSMA ,Into to Lan technology
			ALOHA and slotted ALOHA and difference
HOLIDAY 12.10.2024 - (DUSSEHRA)			
SUNDAY - 13.10.2024			
12	October	(14-19)	Gigabit ethernet,token ring
			Wireless LAN,Bluetooth
			Shortest Path Routing
			17.10.2024 - MAHARISHI VALMIKI JAYANTI/MAHARAJA AJMIDH JAYANTI
SUNDAY - 20.10.2024			
13	October	(21-26)	VLANs,Routing, Routine algo
			Chock packeting,load shading, elements of tranfer protocol
			CONDITIONAL TEST
DIWALI BREAK - 27.10.2024 - 03.11.2024			
14	November	(4-9)	Link state routing, Hierarchical routing
			Digital signature,digital certificate, encryption method
			Problem discussion
SUNDAY - 10.11.2024			
15	November	(11-16)	Distance vector Routing
			Contd..
			Problem Discussion
			15.11.2024 - GURU NANAK DEV JAYANTI
SUNDAY - 17.11.2024			
16	November	(18-22)	Query on Problems
			Query on Problems
			Query on Problems
23.11.2024 - Examinations			

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LESSON PLAN

SESSION 2024-25 (01.08.2024 to 22.11.2024)

Weekly Lesson Plan (Odd Semester)

UG (1st / III / V - Semester) -5TH

Name of the Paper:- OPERATING SYSTEM Class: BCA III

Name of the Teachers (Section Wise) : Dr. Neetu Manocha (Bhatia)

WEEK	DATE	TOPICS
1	August (1-3)	HAWAN & INAUGURATION SESSION 2019-20
		TIME-TABLE DISPLAY & DISCUSSION
		Discussion of Syllabus
SUNDAY - 04.08.2024		
2	August (5-10)	
		TEEJ
		Introduction to OS
		Charcterstics and Components
SUNDAY - 11.08.2024		
3	August (12-17)	
		15.08.2024 - INDEPENDENCE DAY
		Contd..
		System Call and System Programs
SUNDAY - 18.08.2024		
4	August (19-24)	19.08.2024 - RAKSHABANDHAN
		Contd..
		Process Control and File Manipulation
SUNDAY - 25.08.2024		
5	August (26-31)	26.08.2024 - JANAMASHTMI
		Process Management Unit II
		State and PCB
SUNDAY - 01.09.2024		

6	September (2-7)	
		CONTD..
		Revision
		Deadlock Unit III
SUNDAY - 08.09.2024		
7	September (9-14)	
		Characterization and Methods
		Dealock Avoidance, Prevention
		Deadlock detection and Recovery
SUNDAY - 15.09.2024		
8	September (16-21)	
		Memory Management - Introduction
		Swapping
		Memory Allocation
SUNDAY - 22.09.2024		
HOLIDAY 23.09.2024 - SHAHEEDI DIVAS/HARYANA WAR HEROES' MARTYRDOM DAY		
9	September (24-28)	
		CONTD..
		Assignment - 1
		Segmentation
SUNDAY - 29.09.2024		
10	September (30) October (1, 4-5))	
		02.10.2024 - MAHATMA GANDHI JAYANTI
		03.10.2024 - (MAHARAJA AGRASEN JAYANTI)
		Contd..
		Page Replacement Algorithm
		SUNDAY - 06.10.2024

11	October (11)	(7)	
			Contd..
			Contd..
			Conditonal Test
HOLIDAY 12.10.2024 - (DUSSEHRA)			
SUNDAY - 13.10.2024			
12	October (14-19)		
			17.10.2024 - MAHARISHI VALMIKI JAYANTI/MAHARAJA AJMIDH JAYANTI
			FRAGMENTATION
			Contd..
SUNDAY - 20.10.2024			
13	October (21-26)		
			Virtual Memory - Unit IV
			Assignment - 2
			Demand Paging, Page Replacement
DIWALI BREAK - 27.10.2024 - 03.11.2024			
14	November (9)	(4-	
			Thrashing and its Causing
			File Management
			Contd..
SUNDAY - 10.11.2024			
15	November (11-16)		
			File Attributes , Protection and File Recovery
			15.11.2024 - GURU NANAK DEV JAYANTI
			File Management methods and Operations
SUNDAY - 17.11.2024			
16	November (18-22)		
			QUERY ON PROBLEMS
			QUERY ON PROBLEMS
			QUERY ON PROBLEMS
23.11.2024 - Examinations			

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Weekly Lesson Plan (Odd Semester)

UG (1st / III / V - Semester) - 5TH

Name of the Paper:- COMPUTER NETWORK

Class: BCA III

Name of the Teachers (Section Wise) : Dr. Neetu Manocha (Bhatia)

WEEK	DATE	TOPICS
1	August (1-3)	
		Display of Time Table
SUNDAY - 04.08.2024		
2	August (5-10)	Discussion of Syllabus
		Introduction to COMPUTER NETWORKS
		07.08.2024 - TEEJ
SUNDAY - 11.08.2024		
3	August (12-17)	Introduction to data communication and Computer Network network topology
		Uses of computer network,Types of computer network
		15.08.2024 - INDEPENDENCE DAY
SUNDAY - 18.08.2024		
4	August (19-24)	19.08.2024 - RAKSHABANDHAN
		Network hardware Component
		Network software ,network designe issue
SUNDAY - 25.08.2024		
5	August (26-31)	26.08.2024 - JANAMASHTMI
		Connection oriented and connectionless services
		Networking models
SUNDAY - 01.09.2024		

6	September	(2-7)	OSI referance model
			Bandwidth, baud rate, transmission impairment, data rate limits
			AnalOg and digital data and signal, data rate,capacity
			SUNDAY - 08.09.2024
7	September	(9-14)	Bandwidth,data rate ,capacity, baud rate
			Wireless transmission
			Guided Transmission media,oral test
			SUNDAY - 15.09.2024
8	September	(16-21)	Multiplexing
			Communication satellites, switching
			Modem and modulation techniques
			SUNDAY - 22.09.2024
HOLIDAY 23.09.2024 - SHAHEEDI DIVAS/HARYANA WAR HEROES' MARTYRDOM DAY			
9	September	(24-28)	Data link layer designe issue
			ADSLand Cable Modem
			Flow control,Media access contro
			SUNDAY - 29.09.2024
10	September (30) October	(1, 4-5))	Error detection and correction
			ASSIGNMENT 1
			02.10.2024 - MAHATMA GANDHI JAYANTI
			03.10.2024 - (MAHARAJA AGRASEN JAYANTI)
			SUNDAY - 06.10.2024

11	October	(7-11)	Ethernet,Switch ethernet and fast ethernet
			CSMA ,Into to Lan technology
			ALOHA and slotted ALOHA and difference
HOLIDAY 12.10.2024 - (DUSSEHRA)			
SUNDAY - 13.10.2024			
12	October	(14-19)	Gigabit ethernet,token ring
			Wireless LAN,Bluetooth
			Shortest Path Routing
			17.10.2024 - MAHARISHI VALMIKI JAYANTI/MAHARAJA AJMIDH JAYANTI
SUNDAY - 20.10.2024			
13	October	(21-26)	VLANs,Routing, Routine algo
			Chock packeting,load shading, elements of tranfer protocol
			CONDITIONAL TEST
DIWALI BREAK - 27.10.2024 - 03.11.2024			
14	November	(4-9)	Link state routing, Hierarchical routing
			Digital signature,digital certificate, encryption method
			Problem discussion
SUNDAY - 10.11.2024			
15	November	(11-16)	Distance vector Routing
			Contd..
			Problem Discussion
			15.11.2024 - GURU NANAK DEV JAYANTI
SUNDAY - 17.11.2024			
16	November	(18-22)	Query on Problems
			Query on Problems
			Query on Problems
23.11.2024 - Examinations			

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LESSON PLAN

SESSION 2024-25 (01.08.2024 to 22.11.2024)

Weekly Lesson Plan (Odd Semester)

UG (1st / III / V - Semester) -5TH

Name of the Paper:- OPERATING SYSTEM Class: BCA III

Name of the Teachers (Section Wise) : Dr. Neetu Manocha (Bhatia)

WEEK	DATE	TOPICS
1	August (1-3)	HAWAN & INAUGURATION SESSION 2019-20
		TIME-TABLE DISPLAY & DISCUSSION
		Discussion of Syllabus
SUNDAY - 04.08.2024		
2	August (5-10)	
		TEEJ
		Introduction to OS
		Charcterstics and Components
		Function and Examples
SUNDAY - 11.08.2024		
3	August (12-17)	
		15.08.2024 - INDEPENDENCE DAY
		Contd..
		System Call and System Programs
SUNDAY - 18.08.2024		
4	August (19-24)	19.08.2024 - RAKSHABANDHAN
		Contd..
		Process Control and File Manipulation
		Device Manipulation and Information Maintenance
SUNDAY - 25.08.2024		
5	August (26-31)	26.08.2024 - JANAMASHTMI
		Process Management Unit II
		State and PCB
		Process Scheduling
SUNDAY - 01.09.2024		

6	September	(2-7)	
			CONTD..
			Revision
			Deadlock Unit III
SUNDAY - 08.09.2024			
7	September	(9-14)	
			Characterization and Methods
			Dealock Avoidance, Prevention
			Deadlock detection and Recovery
SUNDAY - 15.09.2024			
8	September	(16-21)	
			Memory Management - Introduction
			Swapping
			Memory Allocation
SUNDAY - 22.09.2024			
HOLIDAY 23.09.2024 - SHAHEEDI DIVAS/HARYANA WAR HEROES' MARTYRDOM DAY			
9	September	(24-28)	
			CONTD..
			Assignment - 1
			Segmentation
SUNDAY - 29.09.2024			
10	September (30) October (1, 4-5))		
			02.10.2024 - MAHATMA GANDHI JAYANTI
			03.10.2024 - (MAHARAJA AGRASEN JAYANTI)
			Contd..
			Page Replacement Algorithm
SUNDAY - 06.10.2024			

11	October	(7-11)	
			Contd..
			Contd..
			Conditonal Test
HOLIDAY 12.10.2024 - (DUSSEHRA)			
SUNDAY - 13.10.2024			
12	October	(14-19)	
			17.10.2024 - MAHARISHI VALMIKI JAYANTI/MAHARAJA AJMIDH JAYANTI
			FRAGMENTATION
			Contd..
SUNDAY - 20.10.2024			
13	October	(21-26)	
			Virtual Memory - Unit IV
			Assignment - 2
			Demand Paging, Page Replacement
DIWALI BREAK - 27.10.2024 - 03.11.2024			
14	November	(4-9)	
			Thrashing and its Causing
			File Management
			Contd..
SUNDAY - 10.11.2024			
15	November	(11-16)	
			File Attributes , Protection and File Recovery
			15.11.2024 - GURU NANAK DEV JAYANTI
			File Management methods and Operations
SUNDAY - 17.11.2024			
16	November	(18-22)	
			QUERY ON PROBLEMS
			QUERY ON PROBLEMS
			QUERY ON PROBLEMS
23.11.2024 - Examinations			

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LESSON PLAN

SESSION 2024-25 (01.08.2024 to 22.11.2024)

Weekly Lesson Plan (Odd Semester)

UG (5th- Semester)

Name of the Paper:-

Web Designing Fundamentals

Name of the Teachers (Section Wise) :

MOHIT

WEEK	DATE	TOPICS
1	August (1-3)	
SUNDAY - 04.08.2024		
2	August (5-10)	Introduction to Internet and World Wide Web
		Evolution and History of World Wide Web
		07.08.2024 - TEEJ
SUNDAY - 11.08.2024		
3	August (12-17)	Basic Features; Web Browsers
		Basic Features; Web Servers;
		Revision and Doubt.
		15.08.2024 - INDEPENDENCE DAY
SUNDAY - 18.08.2024		
4	August (19-24)	19.08.2024 - RAKSHABANDHAN
		URLs; Searching
		URLs; Searching
		Revision and Doubt.
SUNDAY - 25.08.2024		
5	August (26-31)	26.08.2024 - JANAMASHTMI
		Steps for Developing Website
		Choosing the Contents; Home Page
		Choosing the Contents; Home Page
SUNDAY - 01.09.2024		

6	September	(2-7)	Domain Names
			Internet Service Provider
			Internet Service Provider
			SUNDAY - 08.09.2024
7	September	(9-14)	Planning and Designing Web Site
			Creating a Website
			Creating a Website
			SUNDAY - 15.09.2024
8	September	(16-21)	Web Publishing>>>Assignment
			Hosting Site, Introduction to HTML
			Revision and Doubt.
			SUNDAY - 22.09.2024
HOLIDAY 23.09.2024 - SHAHEEDI DIVAS/HARYANA WAR HEROES' MARTYRDOM DAY			
9	September	(24-28)	Hypertext Transfer Protocol
			UNIT- TEST
			SUNDAY - 29.09.2024
10	September (30) October (1, 4-5))		Web- Casting Techniques
			Hypertext and HTML;
			02.10.2024 - MAHATMA GANDHI JAYANTI
			03.10.2024 - (MAHARAJA AGRASEN JAYANTI)
			SUNDAY - 06.10.2024

11	October	(7-11)	HTML Document Features
			HTML Tags;
			Header, Title
HOLIDAY 12.10.2024 - (DUSSEHRA)			
SUNDAY - 13.10.2024			
12	October	(14-19)	Body, Paragraph,
			Ordered/Unordered Line
			Creating Links;Headers
			17.10.2024 - MAHARISHI VALMIKI JAYANTI/MAHARAJA AJMIDH JAYANTI
SUNDAY - 20.10.2024			
13	October	(21-26)	Text Styles; Text Colors, Background
			Formatting Text,Page layouts, Insertion of Text,
			Movement of Text>>>Assignment
DIWALI BREAK - 27.10.2024 - 03.11.2024			
14	November	(4-9)	Images: Types of Images,Insertion of Image, Movement of Image
			Ordered and Unordered lists, Inserting Graphics,
			Table Handling Functions like Columns,Rows
SUNDAY - 10.11.2024			
15	November	(11-16)	Width, Colours, Frame Creation and Layouts,
			Working with Forms and Menus
			Working with Buttons like Radio, Check Box
			15.11.2024 - GURU NANAK DEV JAYANTI
SUNDAY - 17.11.2024			
16	November	(18-22)	Revision and Doubt.
			Revision and Doubt.
			Revision and Doubt.
23.11.2024 - Examinations			

I.B. (PG) COLLEGE, PANIPAT

LESSON PLAN

SESSION 2024-25 (01.08.2024 to 22.11.2024)

Weekly Lesson Plan (Odd Semester)

UG (5th- Semester)

Name of the Paper:- Artificial Intelligence

Name of the Teachers (Section W MOHIT

WEEK	DATE	TOPICS
1	August (1-3)	Artificial Intelligence : Intelligence, AI Concepts, Various definitions of AI
		Knowledge, Knowledge Pyramid, People and Computers
		What computers can do better than people, what people can do better than computers;
SUNDAY - 04.08.2024		
2	August (5-10)	
		07.08.2024 - TEEJ
		Characteristics of AI Problems,
		Problem Representation in AI
SUNDAY - 11.08.2024		
3	August (12-17)	
		15.08.2024 - INDEPENDENCE DAY
		AI Evolution,
		Application Areas of AI
SUNDAY - 18.08.2024		
4	August (19-24)	19.08.2024 - RAKSHABANDHAN
		History of AI,
		The Turing Test
		The Revised Turing Test
SUNDAY - 25.08.2024		
5	August (26-31)	26.08.2024 - JANAMASHTMI
		Revision and Doubt.
		Expert System: Components of Expert System:
		Knowledge Base, Inference Engine
SUNDAY - 01.09.2024		

6	September (2-7)	
		User Interface, Features of Expert System, Expert System Life Cycle,
		Categories of Expert System, Rule Based vs. Model Based Expert Systems
SUNDAY - 08.09.2024		
7	September (9-14)	
		Advantages/Limitations of Expert System Developing an Expert System: Identification, Conceptualization, Formalization, Implementation Testing
SUNDAY - 15.09.2024		
8	September (16-21)	
		Using an Expert System, Application Areas of Expert System Revision and Doubt.
SUNDAY - 22.09.2024		
HOLIDAY 23.09.2024 - SHAHEEDI DIVAS/HARYANA WAR HEROES' MARTYRDOM DAY		
9	September (24-28)	
		UNIT I TEST
		AI and Search Process: Brute Force Search Depth First/Breadth First Search
SUNDAY - 29.09.2024		
10	September (30) October (1, 4-5))	
		02.10.2024 - MAHATMA GANDHI JAYANTI
		03.10.2024 - (MAHARAJA AGRASEN JAYANTI)
		Heuristic Search: Hill Climbing, Constraint Satisfaction, Mean End Analysis
SUNDAY - 06.10.2024		

11	October (7-11)	
		Best First Search, A* Algorithm
		AO* Algorithm, Revision and Doubt.
HOLIDAY 12.10.2024 - (DUSSEHRA)		
SUNDAY - 13.10.2024		
12	October (14-19)	
		17.10.2024 - MAHARISHI VALMIKI JAYANTI/MAHARAJA AJMIDH JAYANTI
		Beam Search. Natural Language Processing: Introduction, Need, Goal,
SUNDAY - 20.10.2024		
13	October (21-26)	
		Fundamental Problems in Natural Language Understanding, How People overcome Natural Language Problems, Speech Recognition:
DIWALI BREAK - 27.10.2024 - 03.11.2024		
14	November (4-9)	
		Introduction, Advantages and Approaches Revision and Doubt. Introduction to Robotics: Parts of a Robot
SUNDAY - 10.11.2024		
15	November (11-16)	
		Controlling a Robot, 15.11.2024 - GURU NANAK DEV JAYANTI
		Intelligent Robots
SUNDAY - 17.11.2024		
16	November (18-22)	
		Mobile Robots Revision and Doubt.
23.11.2024 - Examinations		

I.B. (PG) COLLEGE, PANIPAT

LESSON PLAN

SESSION 2024-25 (01.08.2024 to 22.11.2024)

Weekly Lesson Plan (Odd Semester)

UG (1st / III / V - Semester)

Name of the Paper:- Programming Using Visual Basic Class: BCA V- SEMESTER

Name of the Teachers (Section Wise) : Vinay Bharti

WEEK	DATE	TOPICS
1	August (1-3)	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,
SUNDAY - 04.08.2024		
2	August (5-10)	Form Layout, Immediate window, Default Controls in Tool Box Visual Development and Event
		07.08.2024 - TEEJ
		Driven programming
		Class Test
		Basics of Programming: Variables: Declaring Variables, Types of variables, Converting Variables
SUNDAY - 11.08.2024		
3	August (12-17)	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
		15.08.2024 - INDEPENDENCE DAY
		Revision of First Unit & Problem Session
SUNDAY - 18.08.2024		
4	August (19-24)	19.08.2024 - RAKSHABANDHAN
		Decision Statements in VB - if statement, if-then-else, nested if-then-else & ladder else- if
SUNDAY - 25.08.2024		
5	August (26-31)	26.08.2024 - JANAMASHTMI
		Revision of First Unit & Problem Session
		select-case & Programming examples
SUNDAY - 01.09.2024		

6	September (2-7)	Programming Examples of Control Structure
SUNDAY - 08.09.2024		
7	September (9-14)	Looping Statements in VB: do-loop, for-next, while-wend;
SUNDAY - 15.09.2024		
8	September (16-21)	Programming Examples of loops
SUNDAY - 22.09.2024		
HOLIDAY 23.09.2024 - SHAHEEDI DIVAS/HARYANA WAR HEROES' MARTYRDOM DAY		
9	September (24-28)	Conditional Test of Unit-I
		Exit statement, Nested Control Structure;
		Programming examples
		Programming examples
SUNDAY - 29.09.2024		
10	September (30) October (1, 4-5))	Arrays: Declaring and using Arrays, One-dimensional, Two-dimensional
		02.10.2024 - MAHATMA GANDHI JAYANTI
		03.10.2024 - (MAHARAJA AGRASEN JAYANTI)
		Multi-dimensional Arrays, Static and Dynamic arrays, Array of Arrays.
SUNDAY - 06.10.2024		

11	October (7-11)	Programming examples
		Revision of Secound Unit & Problem Session
HOLIDAY 12.10.2024 - (DUSSEHRA)		
SUNDAY - 13.10.2024		
12	October (14-19)	Programming examples of two-dimensional & Multi-dimensional Arrays
		Assignment -I
		Revision of Array
		17.10.2024 - MAHARISHI VALMIKI JAYANTI/MAHARAJA AJMIDH JAYANTI
Procedures: General & Event Procedures, Subroutines,		
Programming examples		
SUNDAY - 20.10.2024		
13	October (21-26)	Class Test of Control Structure
		Functions, Calling Procedures, Arguments -
		Passing Mechanisms, Optional Arguments
DIWALI BREAK - 27.10.2024 - 03.11.2024		
14	November (4-9)	Programming Examples
		Programming Examples
SUNDAY - 10.11.2024		
15	November (11-16)	Named Arguments, Functions Returning Custom Data
		Types
		Programming Examples
		Programming Examples
15.11.2024 - GURU NANAK DEV JAYANTI		
SUNDAY - 17.11.2024		
16	November (18-22)	Simple Program Development in VB such as Sum of Numbers, Greatest among Numbers, Checking
		Even/Odd Number, HCF of Two Numbers, Generate
		Prime Numbers
23.11.2024 - Examinations		