I.B. (PG) COLLEGE, PANIPAT
(SESSION 2019-20)

Weekly Lesson Plan (January 2020 - April 2020)

Name of the Paper:-   INTERNET TECHNOLOGIES   **Class: BCA III SEM - 6**

Name of the Teachers (Section wise): DEEPTY JUNEJA

WEEK	DATE	TOPICS
1	January (1 - 4)	Internet: Introduction; History; Internet Services; TCP/IP:
	SUNDAY - 05.01.2020	
2	January (6-11)	Architecture, Layers,
		Protocols; TCP/IP model versus OSI Model
		World Wide Web (WWW) - The Client Side, The Server Side, Creating and
		Searching Information on the Web, Popular Search Engines
	SUNDAY - 12.01.2020	
3	January (13-18)	URL, HTTP, Web Browsers, Chat &
		Bulletin Board, USENET & NNTP (Network News Transfer Protocol)
	SUNDAY - 19.01.2020	
4	January (20 -25)	Internet vs. Intranet
		TCP, UDP and IP Protocols, Port Numbers; Format of TCP, UDP and IP

January - 26.01.2020		
5	January (27- 31) February (1)	IPv4 addressing;
		needs for IPv6; IPv6 addressing and packet format;
SUNDAY - 02.02.2020		
6	February (3 -8)	Assignment I
		TCP Services; TCP Connection Management; Remote
		Procedure Call; IP Address Resolution- DNS
		DNS Mapping; Recursive and
		Iterative Resolution; Mapping Internet Addresses to Physical Addresses
SUNDAY - 09.02.2020		
7	February (10 -15)	ARP, RARP, DHCP; ICMP;
		IGMP
		Application Layer: Electronic Mail: Architecture; Protocols - SMTP
SUNDAY - 16.02.2020		
8	February (17-22)	Query Session
		Conditional Test
		MIME, POP, IMAP; Web Based
		Mail; File Access and Transfer: FTP, Anonymous FTP
SUNDAY - 23.02.2020		
9	February (24-29)	TFTP, NFS; Remote Login using TELNET;
		Voice and Video over IP:

		SUNDAY - 01.03.2020		
10	March (02 -07)	RTP,RTCP, IP Telephony and Signaling, RSVP;		
		Assignment II		
		SUNDAY - 08.03.2020		
11	March (09 -14)			
		HOLI BREAK		
		SUNDAY - 15.03.2020		
12	March (16 -21)	Routing in Internet: RIP, OSPF, BGP		
		Internet Multicasting; Mobile IP; Private Network		
		SUNDAY - 22.03.2020		
13	March (23-28)	Interconnection: Network Address Translation (NAT)		
		Virtual Private Network (VPN); Internet		
		Management and SNMP		
		SUNDAY - 29.03.2020		
14	March (30 -31) April 1-4)	Internet Security: E-Mail Security; Web Security; Firewall; Introduction to		
		IPSec and SSL		
		REVISION		

	SUNDAY - 05.04.2020	
15	April (06 -11)	REVISION
	SUNDAY - 12.04.2020	
16	April (13-18)	
	SUNDAY - 19.04.2020	
17	April (20-25)	
	SUNDAY - 26.04.2020	
18	April (27-30)	

Weekly Lesson Plan (January 2020 - April 2020)

Name of the Paper:-   OPERATING SYSTEM - II   **Class: BCA III SEM - 6**

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

WEEK	DATE	TOPICS
1	January (1 - 4)	UNIT - I: PROCESS SYNCHRONIZATION: THE CRITICAL SECTION PROBLEM -
		SINGLE PROCESS / TWO PROCESS SOLUTION
		CONTINUE
	SUNDAY - 05.01.2020	
2	January (6-11)	SEMAPHORES - TYPES, IMPLEMENTATION
		CONTINUE
		DEADLOCKS AND STARVATION,
		CLASSICAL PROBLEMS OF SYNCHRONIZATION
		CONTINUE
		CONTINUE
	SUNDAY - 12.01.2020	
3	January (13-18)	BOUNDED BUFFER PROBLEM
		THE READERS AND WRITERS PROBLEM
		THE DINING PHILOSPHER PROBLEM
	SUNDAY - 19.01.2020	
4	January (20 -25)	DIRECTORY STRUCTURE: SINGLE LEVEL, TWO LEVEL
		TREE STRUCTURE, ACYCLIC GRAPH
		GENERAL GRAPH, DIRECTORY IMPLEMENTATION AND RECOVERY

		January - 26.01.2020	
5	January (27-31) & February (1)	UNIT - II SECONDARY STORAGE STRUCTURE	
		DISK STRUCTURE, DISK SCHEDULING	
		FCFS	

		SUNDAY - 02.02.2020	
6	February (3-8)	SSTF	
		SCAN AND C - SCAN	
		LOOK AND C - LOOK	

		SUNDAY - 09.02.2020	
7	February (10 -15)	SELECTION OF DISK SCHEDULING ALGORITHM	
		DISK MANAGEMENT	
		SWAP SPACE MANAGEMENT	

		SUNDAY - 16.02.2020	
8	February (17-22)	NETWORK OPERATING SYSTEM	
		REMOTE LOGIN	
		REMOTE FILE TRANSFER	

		SUNDAY - 23.02.2020	
9	February (24-29)	DISTRIBUTED OPERATING SYSTEM	
		DATA MIGRATION , COMPUTATION MIGRATION	
		PROCESS MIGRATION	

	SUNDAY - 01.03.2020	
10	March (02 -07)	**UNIT - III - LINUX : INTRODUCTION AND FEATURES**
		ARCHITECTURE , DISTRIBUTIONS
		ACCESSING LINUX SYSTEMS, LOGIN / LOGOUT / SHUT DOWN
	SUNDAY - 08.03.2020	
11	March (09 -14)	**HOLI BREAK**
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	SUNDAY - 15.03.2020	
12	March (16 -21)	IST ASSIGNMENT - DISK SCHEDULING AND ITS ALGORITHM
		COMPARISON OF LINUX WITH OTHERS OPERATING SYSTEMS
		COMMAND IN LINUX
	SUNDAY - 22.03.2020	
13	March (23-28)	GENERAL PURPOSE COMMANDS
		FILE ORIENTED COMMANDS
		DIRECTORY ORIENTED COMMANDS
	SUNDAY - 29.03.2020	
14	March (30 -31) April 1-4)	CONDITIONAL TEST ON DISK SCHEDULING AND CLASSICAL PROBLEMS OF
		SYNCHRONIZATION, COMMUNICATION ORIENTED COMMANDS,
		PROCESS ORIENTED COMMANDS, REDIRECTION OF INPUT AND OUTPUT
		UNIT - IV : LINUX FILE SYSTEM

	SUNDAY - 05.04.2020	
15	April (06 -11)	TYPES OF FILE IN LINUX, FILE ATTRIBUTES, STRUCTURE OF FILE SYSTEM,
		INODE, FILE PERMISSION, FILE SYSTEM COMPONENTS, STANDARD FILE SYSTEM
		FILE SYSTEM TYPES, DISK RELATED COMMANDS, PROCESSES IN LINUX
		JOB CONTROL IN LINUX USING COMMANDS
	SUNDAY - 12.04.2020	
16	April (13-18)	Vi EDITOR, INTRODUCTION, MODES , COMMANDSIN Vi EDITOR
		SHELL PROGRAMMING : INTRODUCTION, SHELL VARIABLE, KEYWORDS,
		2ND ASSIGNMENT ON LINUX COMMANDS
	SUNDAY - 19.04.2020	
17	April (20-25)	OPERATORS, CONTROL STRUCTURE,
		CONTINUE
		CREATING AND EXECUTING SHELL PROGRAM IN LINUX
	SUNDAY - 26.04.2020	
18	April (27-30)	REVISION TEST
		REVISION TEST
		REVISION TEST
		REVISION TEST