



GOVERNMENT POLYTECHNIC FOR WOMEN

KANDAGHAT, DISTT. SOLAN (HP) - 173215

DEPARTMENT OF COMPUTER ENGINEERING

LESSON PLAN

Academic Year	2020-21
Semester	III
Subject Code	N2017-3.5
Subject Title	Data Communication & Computer Network
Name of Faculty	Kuldeep Sharma(CSE)
Semester Start & End Dates	01.09.2022- 20.12.2022

STUDY AND EVALUATION SCHEME

Sr. No.	Name of the Subject	Th	Pr	Internal Assessment			External Assessment					Total Marks
				Th	Pr	Total	Th	Hrs	Pr	Hrs	Total	
3.1	Data Communication & Computer Network	4	2	30	20	50	100	3	50	3	150	200

Subject objectives:

Day	Unit & Topic of Discussion	Topic objectives	Delivery Method
	Unit-1: Fundamentals of Data Communications		
Day 1	Definition	Definition of data communication	Chalk & Talk
Day 2	Characteristics & Components	Fundamental characteristics of data communication - delivery, accuracy, timeliness, jitter	Chalk & Talk
Day 3	Components	Components of data communication - message, sender, receiver, transmission medium, and protocol	
Day 4	Data representation &	Data representation - text, numbers, images, audio, video.	Chalk & Talk
Day 5	Data Flow	Data flow - simplex, half-duplex, full duplex.	Chalk & Talk
	Unit-2 : Introduction to Computer Networks		
Day 6	Definition	Definition & objectives of computer network	Chalk & Talk
Day 7	Networking models	client-server, peer-to-peer	Chalk & Talk
Day 8&9	Types of network	PAN, LAN, MAN, WAN	Chalk & Talk
Day 10&11	Network topologies	Mesh, Star, Bus, Ring.	Chalk & Talk
Day 12	Class Test 1		

	Unit-3 : ISO-OSI Model		
Day 13-18	ISO- OSI Model	Seven layers of OSI model; functions of physical, data link, network, transport, session, presentation, and application layers.	Chalk & Talk
	Unit-4 : Transmission Media		
Day 19,20	Guided and unguided transmission media	Guided and unguided transmission media; twisted pair cable - UTP Vs STP, RJ45 connector, categories of UTP, applications	Chalk & Talk
Day 21,22	Coaxial cable	coaxial cable - coaxial cable standards, connector, and applications	Chalk & Talk
Day 23,24	Optical fiber cable	optical fiber cable - construction and principle, propagation modes, connectors, applications, advantages, disadvantages	
Day 25,26	Wireless transmission	wireless transmission - radio waves, microwaves, infrared; ISM band.	Chalk & Talk
Day 27	Class Test 2		
	Unit-5 : Network Devices		
Day 28-34	Network Devices	Network Interface Card, repeater, hub, switch, bridge, router, gateway, modem, firewall.	Chalk & Talk
	Unit-6 : TCP/IP Model		
Day 35-42	Layers of TCP/IP	Network layer: classes of IP addressing, CIDR and subnet mask notation of IP addresses, subnetting, supernetting, IPv4 header, need of IPv6. Transport layer: TCP, UDP, concept of ports, well known ports. Application layer: SMTP, TELNET, FTP, DHCP.	
Day 43-48	Revision Classes		

	Name of Book	Author Name	Publication
Prescribed Books	Computer Network	Andrew S. Tanenbaum	PHI Publication
	Data Communications and Networking	Forouzan	Tata McGraw Hill
Reference Books	Data and Computer Communication	William Stallings	Pearson Publication


Faculty in Charge

Kuldeep Sharma


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GOVERNMENT POLYTECHNIC FOR WOMEN
KANDAGHAT, DISTT. SOLAN (HP) - 173215

DEPARTMENT OF COMPUTER ENGINEERING
LESSON PLAN

Academic Year	2022-23
Semester	III
Subject Code	N2017-3.4
Subject Title	Advanced Programming in 'C' Language
Name of Faculty	Ritu Gulyani(CSE)
Semester Start & End Dates	01.09.2022 - 20.12.2022

STUDY AND EVALUATION SCHEME

Sr. No.	Name of the Subject	Th	Pr	Internal Assessment			External Assessment					Total Marks
				Th	Pr	Total	Th	Hrs	Pr	Hrs	Total	
3.1	* Advanced Programming in 'C' Language	4	6	30	20	50	100	3	50	3	150	200

Subject objectives:

Day	Unit & Topic of Discussion	Topic objectives	Delivery Method
	Unit-1: Introduction to Programming		
Day 1	Algorithm & Flowchart	Algorithm, Flowchart, Evolution of Programming Languages, Structured Programming.	Chalk & Talk
Day 2	Compiling	Compiling, Linking, Testing and Debugging a program. Syntax Error, Semantic Error. Systems	Chalk & Talk
	Unit-2 : Introductions to 'C' Language		
Day 3	Fundamentals of C	Character set, identifier, keywords, variables, data types.	Chalk & Talk
Day 4	Fundamentals of C	Constants and literals. Structure of a 'C' program .	Chalk & Talk
Day 5	Unformatted I/O functions	Unformatted I/O functions - getchar(), putchar(), gets(), puts() .	Chalk & Talk
Day 6	Formatted I/O functions	Formatted I/O functions - printf(), scanf().	Chalk & Talk
	Unit-3 : Operators		
Day 7	Operators	Arithmetic operators, relational operators .	Chalk & Talk
Day 8	Operators	logical operators, bit-wise operators,	Chalk & Talk
Day 9	Operators	Assignment operators, conditional operators, special operators	Chalk & Talk
Day10	Operators	Associativity and order of precedence of operators.	Chalk & Talk
	Unit-4 : Flow Control Statements		
Day11	Statements	Branching statements: Conditional - if, if...else	Chalk & Talk

Day 12	Statements	Nested if.	Chalk & Talk
Day 13	Statements	if...else ...if ladder.	Chalk & Talk
Day 14	Statements	Switch...case	Chalk & Talk
Day 15	Statements	Continue, return	Chalk & Talk
Day 16	loops	While, do...while	Chalk & Talk
Day 17	loops	for, Nested loops,	Chalk & Talk
Day 18	loops	Infinite loops.	
Unit-5 : Storage Classes			Chalk & Talk
Day 19	Variables	Scope and lifetime of variables	Chalk & Talk
Day 20	Variables	local and global variables	Chalk & Talk
Day 21	Storage classes	Storage classes - auto, extern	Chalk & Talk
Day 22	Storage classes	Static, register.	
Unit-6 : Arrays			Chalk & Talk
Day 23	Introduction	Definition of array, memory representation of arrays	Chalk & Talk
Day 24	One-Dimension array	One-dimensional arrays: declaration	Chalk & Talk
Day 25	One-Dimension array	One-dimensional arrays: Initialization	Chalk & Talk
Day 26	Two-Dimension array	Two-dimensional arrays: declaration	Chalk & Talk
Day 27	Two-Dimension array	Two-dimensional arrays: initialization,	Chalk & Talk
Day 28	Strings	Strings, standard string functions-srtlen(),	Chalk & Talk
Day 29	String Functions	String functions-strrev(), strcmp()	Chalk & Talk
Day 30	String Functions	string functions- strcpy(), strcat().	
Unit-7 : Functions			Chalk & Talk
Day 31	Functions	Definition	Chalk & Talk
Day 32	Prototype	Function prototype	Chalk & Talk
Day 33	Parameters	Formal parameters	Chalk & Talk
Day 34	Function Call	Function call, call by reference.	Chalk & Talk
Day 35	Function Call	Call by value,	Chalk & Talk
Day 36	Recursion	Recursive Functions	Chalk & Talk
Day 37	Function Arguments	Arrays as function arguments	Chalk & Talk
Day 38		Revision	
Unit-8 : Structures and Unions			Chalk & Talk
Day 39	Definition	Definition of structure and union,	Chalk & Talk
Day 40	Difference	Difference between structure and union	Chalk & Talk
Day 41	Declaration	Declaring structures unions.	Chalk & Talk
Day 42	Initialization	Initializing a structure.	
Day 43	Assignment	Structure assignment.	Chalk & Talk
Day 44	Arrays	Arrays of structures.	Chalk & Talk
Unit-9 : Pointers			Chalk & Talk
Day 45	Definition	Definition of pointer.	Chalk & Talk
Day 46	Operator	Address and dereferencing operators.	Chalk & Talk
Day 47	Declaration	Pointer type declaration.	Chalk & Talk
Day 48	Assignment	Pointer assignment.	Chalk & Talk
Day 49	Initialization	Pointer initialization.	Chalk & Talk
Day 50	Arithmetic	Pointer Arithmetic.	Chalk & Talk
Day 51	Arithmetic	Pointer Arithmetic.	Chalk & Talk

Day 52		Revision	Chalk & Talk
	Unit-10 : File Handling		
Day 53	Definition	Definition of file, file opening modes, create a new file, open an existing file.	Chalk & Talk
Day 54	Read & Write Operation	Read/Write in a file, moving file pointer within an opened file.	Chalk & Talk
Day 55	Functions	Close an opened file, File handling functions - fopen(), fclose().	Chalk & Talk
Day 56	Functions	getc(), putc(), fprintf(), fscanf(), fgets(), fputs(), feof(), fseek(), rewind().	Chalk & Talk

	Name of Book	Author Name	Publication
Prescribed Books	Let us C	Yashwant Kanetkar	BPB Publications
	Programming with C	Byron S Gottfried	Tata McGraw Hill Publication
Reference Books	Programming with ANSI C	E. Balagurusamy	Tata McGraw Hill Publication


Faculty InCharge

Ritu Gulyani


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GOVERNMENT POLYTECHNIC FOR WOMEN

KANDAGHAT, DISTT. SOLAN (HP) - 173215

DEPARTMENT OF COMPUTER ENGINEERING

LESSON PLAN

Academic Year	2022-23
Semester	III
Subject Code	N2017-3-3.2
Subject Title	Internet Technology
Name of Faculty	Lalit Himral Lecturer(CE)
Semester Start & End Dates	01.09.2022-

Prerequisites:

- Knowledge of fundamentals concepts of computing
- Basic knowledge of computer networks and their concepts
- Requires a practice hands on a general purpose programming Language

STUDY AND EVALUATION SCHEME

Sr. No.	Name of the Subject	Th	Pr	Internal Assessment			External Assessment					Total Marks
				Th	Pr	Total	Th	Hrs	Pr	Hrs	Total	
3.2	Internet Technology	3	4	30	20	50	100	3	50	3	150	200

Course objectives:

- Providing students with the insight of Internet and related terminologies.
- Students will be fully acquainted with the basic concepts of HTML, CSS, JavaScript and jQuery.

PROPOSED PLAN:

Day	Unit & Topic of Discussion	Topic Details	Delivery Method
	Unit-1 : Internet and Web Basics		
Day 1	Introduction	Internet and its applications,	Chalk & Talk
Day 2	WWW	World Wide Web and its evolution, WWW vs Internet	Chalk & Talk
Day 3	Web Terminology	web server, web page, web site (static & dynamic)	Chalk & Talk
Day 4	Web Terminology	HTTP protocol, URL, Web Browsers, Search Engine, Proxy Server.	Chalk & Talk
	Unit-2 : Working with HTML5		
Day 5	Introduction to HTML	HTML coding conventions, HTML5 structural elements: <html>, <head>, <body>	Chalk & Talk

Day 6	Basics Tags/Elements of HTML	Head elements : <title>, <meta>, <link>;	Chalk & Talk
Day 7	Body Tags	body elements: <h1>.. <h6>, <hr>,<p><="" <table>,="" td=""><td>Chalk & Talk</td></h6>,>	Chalk & Talk
Day 8	Body Tags	<div>, , ,, , comments,	Chalk & Talk
Day 9	Body Tags	, <iframe>,	Chalk & Talk
Day 10	Form tags	<form>; semantic	Chalk & Talk
Day 11	Semantic elements	elements:<article><aside>,<details>	Chalk & Talk
Day 12	Layout tags	<figure>,<footer>, <header>,<main>, <mark>, <nav>,	Chalk & Talk
Day 13	Semantic elements	<section>,<summary>, <time>;	Chalk & Talk
Day 14	HTML attributes	HTML attributes: accesskey, class, data-*, id, style, tabindex, title	Chalk & Talk
	Unit-3 : HTML Lists and Tables		
Day 15	List Tags	Ordered Lists, Unordered Lists,	PPT
Day 16	List Tags	Definition Lists, Nested Lists,	PPT
Day 17	Table Tags	Table elements: <table>, <thead>, <tbody>, <tfoot>	PPT
Day 18	Table Tags	<tr>, <th>, <td>; using rowspan and colspan attributes.	PPT
	Unit-4 : HTML Forms		
Day 19	Form Tags	Form elements: <input>, <select>, <option>, <optgroup>	Chalk &Talk
Day 20	Form tags	<textarea>, <button>, <datalist>, <fieldset>	Chalk &Talk
Day 21	Form Tags	<label>, <legend>, <submit>, action attribute	Chalk & Talk
Day 22	Form Attributes		Chalk & Talk
	Unit-5 : Cascaded Style Sheet (CSS)		
Day 23	Introduction to CSS and their types	CSS types: inline, internal and external;	PPT
Day 24	CSS Selectors	CSS rule, Selectors, CSS box model	PPT
Day 25	With examples		
Day 26	CSS Attributes	CSS attributes: border, margin, padding,	Chalk & Talk
Day 27	CSS Attributes	height, width, color, text-align, border-collapse, border-spacing	Chalk & Talk
Day 28	CSS Attributes	background-color, background-image, background-repeat, background-attachment, background-position	Chalk & Talk
Day 29	CSS Attributes	Text decoration, text-transform, letter-spacing,	Chalk & Talk
Day 30	CSS Attributes	word-spacing, font-family, font-style, font-size, font-variant	Chalk & Talk
Day 31	CSS Attributes	position, display, float, list styles, table styles,	Chalk & Talk
Day 32	CSS pseudo classes	pseudo classes	Chalk & Talk
	Unit-6 : JavaScript		
Day 33	Introduction	JavaScript overview, <script> element, variable, lifetime and scope of variables	Chalk & Talk
Day 34	Building Blocks of JavaScript	operators, control statements: if...else,	Chalk & Talk
Day 35	Examples on control Statements	switch...case; iteration: for, while, do...while;	Chalk & Talk
Day 36	Linking .js file	linking external JavaScript file with an HTML document	Chalk & Talk

Day 37	Arrays	manipulating HTML DOM tree with JavaScript, arrays,	Chalk & Talk
Day 38	OOPs concepts in JavaScript	object-oriented programming in JavaScript,	Chalk & Talk
Day 39	Functions	built-in javascript functions, user-define functions.	Chalk & Talk
Unit-7 : jQuery			
Day 40	Introduction	Need of jQuery, Adding jQuery to a Webpage-using CDN or Local Copy	Chalk & Talk
Day 41	jQuery Effects	jQuery Selectors, JQuery Effects-hide(), show(), toggle(), fadeIn(), fadeout(), fadeTo(), fadeToggle(), Animate()	PPT
Day 42	jQuery Events	Blur(), click(), focus(), ready(), load(), on(), off().	PPT

	Name of Book	Author Name	Publication
Prescribed Books	HTML & CSS: The Complete Reference	Thomas A. Powell, Tata McGraw Hill	Tata McGraw Hill Publication
	JavaScript: The Definitive Guide	David Flanagan	O'Reilly Media Inc
Reference Books	HTML 5 Black Book		Kogent Learning Solutions Inc.
	Web Design with HTML, CSS, JavaScript and jQuery Set	John Duckett	Wiley Publication
	Web Programming with HTML5, CSS and JavaScript	John Dean	Jones and Bartlett Publishers


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KANDAGHAT, DISTT. SOLAN (HP) - 173215

DEPARTMENT OF COMPUTER ENGINEERING
LESSON PLAN

Academic Year	2022-23
Semester	III
Subject Code	N2017-3.1
Subject Title	Digital Systems and Applications
Name of Faculty	Nirlep Rana(CSE)
Semester Start & End Dates	01.09.2022- 20.12.2022

STUDY AND EVALUATION SCHEME

Sr. No.	Name of the Subject	Th	Pr	Internal Assessment			External Assessment					Total Marks
				Th	Pr	Total	Th	Hrs	Pr	Hrs	Total	
3.1	* Digital Systems and Applications	4	2	30	20	50	100	3	50	3	150	200

Subject objectives:

Day	Unit & Topic of Discussion	Topic objectives	Delivery Method
	Unit-1: Introduction to Digital System		
Day 1	Analog Systems	Analog Signal and Graphical Representation of Analog Signals, Analog Systems, Examples of Analog Systems, Disadvantage of Analog Systems.	Chalk & Talk
Day 2	Digital Systems	Digital Signal and Graphical Representation of Digital Signals, Digital Systems, Examples of the Digital System, Advantage and Limitation of Digital Systems, Comparison of Analog and Digital Systems	Chalk & Talk
Day 3	A/D and D/A convertor	Introduction to Analog to Digital Convertor and Digital to Analog Convertor.	Chalk & Talk
	Unit-2 : Digital Number System and their Conversion		
Day 4	Binary Number System	Binary to Decimal Conversion, Decimal to Binary Conversion.	Chalk & Talk
Day 5	Signed Binary Numbers	Sign Magnitude Representation, One's Compliment Representation	Chalk & Talk
Day 6	Signed Binary Numbers	Two's Compliment Representation	Chalk & Talk
Day 7	Introduction to Octal Number System	Characteristics, Octal to Decimal Conversion,	Chalk & Talk
Day 8	Octal Number System	Decimal to Octal Conversion,	Chalk & Talk
Day 9	Octal Number System	Octal to Binary Conversion, Binary to Octal Conversion	Chalk & Talk

Day 10	Hexadecimal Number System	Characteristics, Hexadecimal to Decimal Conversion	Chalk & Talk
Day 11	Hexadecimal Number System	Decimal to Hexadecimal Conversion	Chalk & Talk
Day 12	Hexadecimal Number System	Hexadecimal to Binary Conversion	Chalk & Talk
Day 13	Hexadecimal Number System	Binary to Hexadecimal Conversion.	Chalk & Talk
Day 14	Hexadecimal Number System	Revision	Chalk & Talk
Day 15	Hexadecimal Number System	Revision	Chalk & Talk
Unit-3 : Binary Arithmetic			
Day 16	Binary Arithmetic	Binary Addition, Binary Subtraction	Chalk & Talk
Day 17	Binary Arithmetic	Binary Multiplication, Binary Division	Chalk & Talk
Day 18	Binary Arithmetic	Addition and Subtraction using Two's Complement Representation	Chalk & Talk
Day 19	Octal Arithmetic	Octal Addition and Octal Subtraction	Chalk & Talk
Day 20	Hexadecimal Arithmetic	Hexadecimal Addition and Hexadecimal Subtraction.	Chalk & Talk
Unit-4 : Boolean Algebra and Logic Gates			
Day 21	Boolean Algebra	Axioms of Boolean Algebra	Chalk & Talk
Day 22	Boolean Laws	Commutative law, Associative law, Distributive law, AND law, OR law and INVERSION law	Chalk & Talk
Day 23	De Morgan's Theorems.	De Morgan's Theorems.	Chalk & Talk
Day 24	Logic Gates	AND Operation, OR Operation, NOT Operation, NAND Operation, NOR Operation, Ex-OR Operation	Chalk & Talk
Day 25	Universal gates	Universality of NAND and NOR Gates	Chalk & Talk
Unit-5 : Simplification of Boolean Functions			
Day 26	Boolean Function	Definition, Truth Table Formation, Standard	Chalk & Talk
Day 27	Boolean Function	Karnaugh-map Representation for Boolean Functions	Chalk & Talk
Day 28	Simplification of a Boolean Function	Simplification of a Boolean Function using Karnaugh-map (Up to three Variables),	Chalk & Talk
Day 29	Simplification of a Boolean Function	Minimization of Boolean Function specified in Minterm, Maxterm and Truth Table	Chalk & Talk
Day 30		Revision	Chalk & Talk
Unit-6 : Combinational Circuits			
Day 31	Half Adder Circuit	Definition, Block diagram, Truth Table and Circuit Diagram	Chalk & Talk
Day 32	Full Adder Circuit	Definition, Block diagram, Truth Table and Circuit Diagram	Chalk & Talk
Day 33	Half Subtractor Circuit	Definition, Block diagram, Truth Table and Circuit Diagram	Chalk & Talk
Day 34	Full Subtractor Circuit	Definition, Block diagram, Truth Table and Circuit Diagram	Chalk & Talk

Day 35	Multiplexers Circuit	Definition, Block diagram, Truth Table, 2 : 1 Multiplexer, 4 : 1 Multiplexer, 16 : 1 Multiplexer	Chalk & Talk
Day 36	Demultiplexers Circuit	Definition, Block diagram, Truth Table, 2 : 1 Demultiplexer, 4 : 1 Demultiplexer and 16 : 1 Demultiplexer	Chalk & Talk
Day 37	Encoder Circuit	Definition, Block diagram, Truth Table and Circuit Diagram, Priority Encoder	Chalk & Talk
Day 38	Decoder Circuit	Definition, Block diagram, Truth Table and Circuit Diagram, 2 to 4 Line Decoder.	Chalk & Talk
Unit-7 : Flip Flops			
Day 39	S-R Flip Flop	Definition, Block Diagram, Circuit Diagram, Truth Table and Operation.	Chalk & Talk
Day 40	Master Slave JK Flip Flop	Definition, Block Diagram, Circuit Diagram	Chalk & Talk
Day 41	Master Slave JK Flip Flop	Truth Table and Operation.	Chalk & Talk
Day 42	Delay (D) Flip Flop	Definition, Block Diagram, Circuit Diagram, Truth Table and Operation.	Chalk & Talk
Day 43	Toggle (T) Flip Flop	Definition, Block Diagram, Circuit Diagram, Truth Table and Operation.	Chalk & Talk
Unit-8 : Semiconductor Memory Devices			
Day 44	Random Access memory (RAM)	Characteristics and Types (SRAM and DRAM)	PPT
Day 45	Read Only memory (ROM)	Characteristics and Types (PROM, EPROM and EEPROM)	PPT
Day 46	Flash Memory	Characteristics and Types :Server-Flash Memory, All-Flash Array	PPT
Day 47	Flash Memory	Traditional Flash Storage and Hybrid Array.	PPT
Day 48		Revision	Chalk & Talk

	Name of Book	Author Name	Publication
Prescribed Books	Modern Digital Electronics	R.P. Jain	Tata McGraw Hill Publication
	Digital Electronics Principles, Devices & Applications	Anil K. Maini	Wiley Publication
Reference Books	2000 Solved Problems in Digital Electronics	S.P. Bali	Tata McGraw Hill Sigma Series

Faculty in Charge

Nirlep Rana

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GOVERNMENT POLYTECHNIC FOR WOMEN
KANDAGHAT, DISTT. SOLAN (HP) - 173215

DEPARTMENT OF COMPUTER ENGINEERING
LESSON PLAN

Academic Year	2022-23
Semester	III
Subject Code	N2017-3-3.3
Subject Title	Operating Systems
Name of Faculty	Navdeep Sahni Lecturer(CE)
Semester Start & End Dates	01.09.2022 – 20.12.2022

STUDY AND EVALUATION SCHEME

Sr. No.	Name of the Subject	Th	Pr	Internal Assessment			External Assessment					Total Marks
				Th	Pr	Total	Th	Hrs	Pr	Hrs	Total	
3.3.3	Operating Systems	4	4	30	20	50	100	3	50	3	150	200

Subject objectives:

Day	Unit & Topic of Discussion	Topic Details	Delivery Method
	Unit-1 : Introduction to operating system		
Day 1	Introduction	Definition of Operating System. Evolution of operating systems - simple batch systems	Chalk & Talk
Day 2	Evolution	multiprogrammed batch systems, timesharing systems	Chalk & Talk
Day 3	Functions	Functions of an operating system.	Chalk & Talk
Day 4	Types of OS	Single user and multiuser operating systems. Open-source and closed-source operating systems.	PPT
	Unit-2 : Process Overview		
Day 5	Introduction	Definition of process, process states	Chalk & Talk
Day 6	Process Life cycle	process life cycle,	Chalk & Talk
Day 7	PCB	Process Control Block (PCB)	Chalk & Talk
Day 8	Process scheduling	Process Scheduling - Scheduling queues,	Chalk & Talk
Day 9		Process Scheduling - Scheduling queues,	Chalk & Talk
Day 10		Schedulers (short term, medium term and long term).	Chalk & Talk
Day 11	Working of SEO	Dispatcher.	Chalk & Talk

Day 12	Context Switch	Context Switch.	Chalk & Talk
Unit-3 : CPU Scheduling			
Day 12	CPU Scheduler	CPU Scheduler	Chalk & Talk
Day 13	Types	preemptive	Chalk & Talk
Day 15		non-preemptive scheduling	Chalk & Talk
Day 16	Scheduling criteria	Response time.	Chalk & Talk
Day 17		CPU utilization	Chalk & Talk
Day 18		Throughput	Chalk & Talk
Day 19		Turnaround time	Chalk & Talk
Day 20		Waiting time	Chalk & Talk
Day 21	Scheduling Algorithms	First-Come-First-Serve	Chalk & Talk
Day 22		Shortest-Job-First	Chalk & Talk
Day 23		Priority Scheduling	Chalk & Talk
Day 24		Round-Robin	Chalk & Talk
Unit-4 : Introduction to Deadlocks			
Day 25	Normal mode of operation	Normal mode of operation - Request-Use-Release sequence	Chalk & Talk
Day 26	Definition	Definition of deadlock, Deadlock Characterization	Chalk & Talk
Day 27	Necessary Conditions	Necessary and sufficient conditions - Mutual exclusion, Hold and wait, No preemption and Circular wait	Chalk & Talk
Day 28			Chalk & Talk
Day 29			Discussion
Day 30	Introduction to methods for handling	Introduction to methods for handling	Chalk & Talk
Day 31	deadlocks	deadlocks.	Videos
Day 32			Chalk & Talk
Unit-5 : Memory Management Techniques			
Day 33	partitioning	Fixed partitioning	Chalk & Talk
Day 34		dynamic partitioning	Chalk & Talk
Day 35	Fragmentation	memory fragmentation	Chalk & Talk
Day 36	paging	simple paging	Chalk & Talk
Day 37	Segmentation	Simple segmentation	Chalk & Talk
Day 38	Virtual Memory	virtual memory with paging	Chalk & Talk
Day 39		virtual memory with segmentation	Chalk & Talk
Day 40		page fault	Chalk & Talk
Day 41		thrashing	Chalk & Talk
Day 42	Page replacement policies	FIFO	Chalk & Talk
Day 43		Optimal	Chalk & Talk
Day 44		LRU	Chalk & Talk
Unit-6 : Storage Management			
Day 45	File concept -	file attributes, file operations,	Chalk & Talk
Day 46		file types	Chalk & Talk
Day 47	Access Methods -	sequential access, direct access	Chalk & Talk
Day 48	Directory Structure -	directory overview, single-level directory,	Chalk & Talk

Day 50	Disk Storage Access ways	two-level directory, tree structured directories.	Chalk & Talk
Day 51		Host-Attached Storage	Discussion
Day 52		Storage Area Network	Chalk & Talk
Day 53		Network-Attached Storage	Chalk & Talk
Day 54	Disk scheduling -	SSTF	Chalk & Talk
Day 55		SCAN	Chalk & Talk
Day 56		C-SCAN	Chalk & Talk
		FCFS	Chalk & Talk

	Name of Book	Author Name	Publication
Prescribed Books	Operating System Concepts	Abraham Silberschatz, Peter B. Galvin, and Gerg Gagne	Wiley India Pvt. Ltd.
Reference Books	Operating Systems - Internals and Design Principles	William Stallings	Pearson Edn.

Faculty

Nandeep Sahni

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