

Name of Faculty: JYOTI

Discipline: B.Tech

Semester: 4TH

Subject: IF

Session Plan duration: January 2017 to April 2017

Engineering of IIS

Week	Theory		Practical Day	Practical
	Lecture Day	Topic (including assignment)		
1	1	Email advantages, disadvantages, world wide web	1	Email sending and receiving mails
	2	email addresses, message components, composition		
	3	email management, mail working, email management.		
	4	newsgroups, mailing lists, diggroups		
	5	introduction of network, history, working of internet		
	6	internet congestion, internet culture, business culture on internet.		
	7	explanative computing, modes of connecting to internet		
	8	IP internet addresses, shared addresses		
	9	Domain names, DNS, IP		
	10	gateways and time routing.		
3	11	communication software, internet tools	3	HTML basic tags, link, heading tags.
	12	tool and tabling problems.		
4	13	www, web browser, searching the www	4	creating resume using html, create hyperlinks
	14	search engines, search fundamentals, search strategies		
	15	working of search engines		
	16	internet.		
5	17	FTP	5	images/lists
	18	HTML.		
	19	HTML.		
5	20	HTML.	5	Sectional Exam
	21	Sectional Exam		
7	21	web page setup, installing, front page express	6	forms, frames
	22	plugins, advanced HTML		
	23	java script		
	24	java script		
8	25	java script	7	tables
	26	client side scripting		
	27	XML based web server introduction		

9	28	Web server config.	8	web page creation
	29	Accessing and using web server		
	30	Security and privacy		
	31	Encryption schemes		
	32	Integrity schemes		
	33	Secure web document		
	34	Firewalls		
	35	Digital signatures		
	36	Routing problems		
	37	OO		
10	38	OO	10	Browsers in hand
	39	OO		
	40	OO		
	41	OO		
11	42	OO	4	Free University Exams
	43	OO		
	44	OO		
	45	OO		

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Name of Faculty:-		JPOTH		
Discipline:-		B.Tech		
Semester:-		4th		
Subject:-		CAD <u>(Theory & Lab)</u>		
Leason Plan duration:- January 2017 to April 2017				
		Theory		
Week	Lecture Day	Topic (including assignment)	Practical Day	Experiment
1	1	Boolean algebra and logic gates, Combinational logic blocks	1	
	2	Sequential logic blocks		
	3	Binary classification		
	4	State control concept, multi-level structure of micro		
	5	micro arch, ISA, OS		
	6	high level lang, structures eg.		
2	7	CPU Main mem, secondary mem, caches	2	
	8	NO performance metrics		
	9	floating point		
3	10	CPU int. and multiplan	3	
	11	deviated path of typical prog based on CPU.		
	12	branch decide execution cycle's (10-5 stages)		
	13	microinstruction set, ALU		
4	14	MEMORY Hierarchy.	4	
	15	main memory		
	16	secondary memory		
	17	cache memory		
5	18	solving problems	5	
	19	ISA architecture		
	20	RISC and CISC		
6		Sessional Exam		
	21	Addressing modes		
	22	control		
7	23	control	6	
	24	operation on instruction set		
	25	operation set for RISC		
8	26	language of RISC/MIPS	7	
	27	parallelism, multi-processor's bus		
	28			

9	28	Instruction level and processor level parallelism	8	
	29	Instruction codes, computer use, computer I/O cycle		
	30	Types of interrupts		
	31	cache.		
10	32	Basic of logic design mem. and reg. and its reference	9	
	33	Addressing, Accumulator, logic C, timing and control.		
	34	Timing diagrams		
	35	tests		
11	36	IO	10	
	37	IO		
	38	IO		
	39	IO		
12	40			
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The University Board				

Name of Faculty:- Dr Sandeep Kumar

Discipline:- B.Tech

Semester:- 4th

Subject:- Database Management System (Theory + Lab)

Lesson Plan duration:- January 2017 to April 2017

Week	Theory		Practical	
	Lecture Day	Topic (including assignment/ test)	Practical Day	Experiment
1	1	Overview of database Management System	1	To study various types of languages
	2	Various views of data		
	3	Data Models.		
	4	Introduction to Database Languages		
	5	Advantages of DBMS over file processing systems		
	6	Responsibility of Database Administrator		
	7	Introduction to Client/Server architecture: Three levels architecture of Database System		
	8	ER Diagram (Entity Relationship)		
2	9	Mapping Constraints	2	INTRODUCTION TO SQL AND FEATURES OF SQL.
	10	Keys		
	11	Reduction of E-R diagram into tables.		
	12	Problem Taking		
	13	Sequential Files		
	14	Index sequential files		
3	15	Direct files	3	Create various tables with the command "create table".
	16	Hashing		
	17	B-trees Index files.		
	18	Relational Model		
4	19	Problem Taking	4	To perform "insertion and deletion on tables" of project student database
	20	Revision		
5			5	To "modify the contents and structures of tables".
6			6	Sessional Exams

7	21	Relational Algebra & various operations	6	To select data from table using "SELECT BY" and GROUP BY clause"
	22	Relational and Tuple calculus		
	23	Relational and Tuple calculus		
	24	Relational and Tuple calculus		
8	25	QLB, QBE, Structured query language – with special reference of (SQL) of ORACLE	7	To implement various functions on data"
	26	Integrity constraints		
	27	Functional dependencies & Introduction to NORMALIZATION		
	28	1 st Normal form		
9	29	2 nd Normal form	8	To implement "various types of joins" on tables.
	30	3 rd Normal form		
	31	4 th Normal form		
	32	BCNF (Boyce – code normal forms)		
10	33	BCNF (Boyce – code normal forms)	9	To implement "SELECT OPERATORS" on tables.
	34	Introduction to Distributed Data processing		
	35	Parallel Databases,		
	36	Data mining & data warehousing.		
11	37	Network model & Hierarchical model	10	Introduction to Views
	38	Introduction to transaction, properties of transaction		
	39	Life cycle of transaction		
	40	Introduction to Concurrency control and Recovery systems		
12	41	Need of concurrency control and recovery system	11	Views
	42	Problems in concurrent transactions		
	43	Problem Taking		
	44	Revision Test		
13		Pre University Exams		

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Name of Faculty:-

Dr. Mansi AMAN DADGAR

Discipline:-

Elect

Semester:-

4th

Subject:-

Programming Languages (Theory Only)

Lesson Plan duration:- January 2017 to April 2017

Week	Lecture (Day)	Topic (including assignment/ test)
1	1	Synthetic and semantic rules of a Programming language;
	2	Characteristics of a good programming language;
	3	Programming language translators compiler & interpreters .
	4	Elementary data types – data objects, variable & constants, data types.
	5	Specification & implementation of elementary data types, Declarations, type checking & type conversion
	6	Assignment & initialization, Numeric data types,
	7	Literals, Parenthesis & characters
	8	Precedence Taking
	9	Structured data objects & data types
	10	Specification & implementation of structured data types
3	11	Declaration & type checking of data structure, vector & arrays, records, Character strings,
	12	Variable size data structures, Union, pointer & programmer defined data objects, sets
	13	Files
4	14	Files
	15	Files
	16	Files
	17	Evolution of data type concept, abstraction, encapsulation & information hiding;
4	18	Subprograms, type definitions, abstract data types

4	19	Problem Making
	20	Revision
6		Sessional Exam
7	21	Implicit & explicit sequence control
	22	Sequence control within expressions
	23	Sequence control within statement, Subprogram sequence control
	24	Simple call return
	25	Recursive subprograms
	26	Exception & exception handlers, co routines, sequence control
8	27	Names & referencing environment, static & dynamic scope
	28	Block structure, Local data & local referencing environment
	29	Shared data, dynamic & static scope
	30	Parameter & parameter transmission schemes
9	31	Problem Taking
	32	Revision Test
	33	Major run time elements requiring storage
10	34	Programmer and system controlled storage management & phases
	35	Static storage management
	36	Stack based storage management
	37	Heap storage management
	38	Variable & fixed size elements
11	39	Introduction to procedural and nonprocedural languages
	40	Introduction to structured and functional language
	41	Introduction to object oriented programming language
12	42	Comparison of C & C++ programming languages
	43	Problem Taking
	44	Revision Test



 Date: 19/11/16

Name of Faculty: Dr (Mrs) AMAN DAGAR

Discipline: B.Tech

Semester: 4th

Subject: Computer networks (Theory + Lab)

Lesson Plan duration: January 2017 - April 2017

Week	Theory		Practical	
	Lecture Day	Topic (including assignment/ test)	Practical Day	Experiment
1	1	Introduction to Computer Networks, Example networks ARPANET	1	Study of Different Topologies
	2	Internet, Private Networks, Network Topologies: Bus, Star, Ring, Hybrid ~ Tree ~		
	3	Complete ~ Irregular ~ Topology		
	4	Types of Networks: Local Area Networks, Metropolitan Area Networks, Wide Area Networks		
2	5	Layering architecture of networks, OSI model.	2	Study of Different Networks
	6	Functions of each		
	7	Problem Taking		
	8	Revision		
3	9	Introduction, History of TCP/IP	3	Laying of Topology for lab computers.
	10	Layers of TCP/IP: Protocols, Internet Protocol, Transmission Control Protocol		
	11	User Datagram Protocol		
	12	IP Addressing, IP address classes, Subnet Addressing		
4	13	Internet Control Protocols, ARP, RARP, ICMP	4	Study of IP addresses of computers installed in labs.
	14	Application Layer, Domain Name System, Email - SMTP, POP, FTP, NNTP, IMAP.		
	15	FTP, NNTP, IMAP.		
	16	www, HTTP		
5	17	Overview of IP version 6	5	TELNET Connection
	18	Subprograms, type definitions, abstract data types.		
	19	Problem Taking		
	20	Revision		
6				

7	21 Introduction to LANs, Features of LANs, Components of LANs. 22 Usage of LANs, LAN Standards. 23 IEEE 802 standards 24 Channel Access Methods: Meaning and types	6	To study various Transmission Media.
8	25 Aloha, Pure and Slotted Aloha 26 CSMA 27 CSMA/CD 28 Token Passing	7	To configure Wi-Fi on your computer.
9	29 Ethernet, Layer 2 & 3 switching, Fast Ethernet and 30 Gigabit Ethernet 31 Problem Solving 32 Revision Test	8	To study various types of Ethernet
10	33 LAN interconnecting devices: Hubs, Switches, Bridges, Routers, Gateways. 34 Introduction of WANs features and components 35 Routing and routing Algorithms 36 Congestion Control	9	To study various network devices.
11	37 WAN Technologies: Distributed Queue Dual Bus (DQDB) 38 Synchronous Digital Hierarchy (SDH) Synchronous Optical Network (SONET). 39 Asynchronous Transfer Mode (ATM). 40 Frame Relay, Wireless Links.	10	To write steps for setting up of a network using switch.
12	41 Remote Monitoring Techniques: Polling, Traps, Performance Management, Class of Service, Quality of Service, Security management, Firewalls, VLANs, Proxy Servers. 43 Introduction to Network Operating Systems: Client-Server Infrastructure. 44 Windows NT/2000	11	To study various network commands.
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The University Exams

Signature
Dr. J. J. J.

Name of Faculty Asha Rana

Discipline:- Computer Science

Semester:- 6th

Subject System Programming & System Administrator *(Theory only)*

Lesson Plan duration:- January 2017 to April 2017

Week	Theory		Practical	
	Lecture Day	Topic (including assignment/ test)	Practical Day	Experiment
1	1	Evolution of Computers system Programming	1	
	2	Assemblers, Loaders, Linkers, Macros, Compilers,		
	3	Text Editors, Interpreters and program generators, debug monitors,		
	4	programming environment, detail map of compiler phases.		
2	5	incremental compiler, single phase assembler two phase assembler	2	
	6	explain symbol table and loader schemes and their types.		
	7	Subroutine linkage, Relocating loader, Direct linkage loader,		
	8	Binders, Linking loader, overlays		
3	9	Macro language and macro-processor, macro instructions	3	
	10	features of macro facility, macro instruction arguments, conditional macro expansion.		
	11	macro calls with macro instruction defining macros.		
	12	Theoretical Concept of Unix Operating System: Basic features of operating system; File structure:		
4	13	CPU scheduling; Memory management; swapping, demand paging; file system: block and fragments,	4	
	14	inodes, directory structure; User to user communication		
	15	Getting Started with Unix: User names and groups, logging in; Format of Unix commands; Changing your password.		
	16	Characters with special meaning, Unix documentation; Files and directories.		
5	17	Current directory, looking at the directory contents, absolute and relative pathnames, some Unix directories and files; Looking at the file contents.	5	
	18	Assignment work and written test of Section A		
	19	File permissions; basic operation on files, changing permission, modes, Standard files.		

	20	finding out about processes; Stopping background process; Unix editor vi.			
6		Sessional Exams			
7	21	standard output; Standard input, standard error, filters and pipelines; Processes;	6		
	22	Text Manipulation: Inspecting files; File statistics; Searching for patterns; C			
	23	Comparing files; Operating on files; Printing files; Rearranging files; Sorting files; Splitting files; Translating characters;			
	24	AWK utility.			
8	25	Shell Programming: Programming in the Bourne and C-Shell.	7		
	26	Wild cards; Simple shell programs; Shell variables; Shell programming constructs.			
	27	interactive shell scripts; Advanced features			
	28	System Administration; Definition of system administration; Booting the system			
9	29	Maintaining user accounts; File systems.	8		
	30	special files; Backups and restoration; Role and functions of a system manager.			
	31	Assignment work and written test of Section B			
	32	Seminar on different topics			
10	33	Overview of the linux. operating system	9		
	34	Seminar on different topics of section A			
	35	Seminar on different topics of section B			
	36	Seminar on different topics of section C			
11	37	Seminar on different topics of section D	10		
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13		Pre University Exams		