

Name of Faculty:- Jyoti
 Discipline:- CSE
 Semester:- 3rd
 Subject: Discrete Structure
 Lesson Plan duration:- 1st August to 30 November 2018

Week	Theory		Practical	
	Lecture Day	Topic (including assignment/ test)	Practical Day	Experiment
1	1	Intro to set Theory	1	
	2	operations		
	3	algebra of set		
	4	terms used in set		
2	5	multiset	2	
	6	Set cond..		
	7	principle of inclusion and exclus		
3	8	relaton	3	
	9	relation contd..		
	10	relation contd..		
	11	function		
4	12	function contd..	4	
	13	proposition calculus		
	14	contd..		
	15	Test of sec-1		
5	16	permutation	5	
	17	contd..		
	18	combination		
	19	contd..		
6	20	AP and GP Series		
7	21	Partial fraction	6	
	22	contd..		
	23	Recurrence relaton		
	24	contd..		
8	25	contd..	7	
	26	revision of sec-2		
	27	Algebric structure		
	28	properties		
9	29	contd..	8	
	30	contd		
	31	langrange thorem		
	32	revision of sec-3		
10	33	Graph	9	
	34	contd		
	35	contd..		
	36	shotest path		
11	37	trees	10	
	38	trees traversals		
	39	spanning tree		
	40	revision of sec-4		
12	41			
	42			
	43			
	44			
13		Pre University Exams		

Name of Faculty:- Jyoti

Discipline:- CSE

Semester:- 3rd

Subject: DAC

Lesson Plan duration:- 1st August 2018 to 30 November 2018

Week	Theory		Practical	
	Lecture Day	Topic (including assignment/ test)	Practical Day	Experiment
1	1	intro to communication	1	
	2	Digital comm		
	3	Analog communication		
	4	signals		
2	5	contd..	2	
	6	fourier series		
	7	contd..		
	8	fourier transform		
3	9	revision of sec-1	3	
	10	Transmission system		
	11	Modulation		
	12	contd..		
4	13	line coding scheme	4	
	14	contdd		
	15	Transmission Media		
	16	contd..		
5	17	Transmission impairments	5	
	18	Channels Data Rate		
	19	RS 232,x.21		
	20	revision of sec -2		
6		Sessional Exams		
7	21	Communicaton modes	6	
	22	Transmission modes		
	23	Types of services		
	24	Flow Contro		
8	25	contd..	7	
	26	Telephone systems		
	27	Multiplexing		
	28	revision of Sec-3		
9	29	Securityin Data comm.	8	
	30	Transmission errors		
	31	Error Detection		
	32	Error Correction		
10	33	contd..	9	
	34	Data Encryption		
	35	contd..		
	36	Data compression		
	37	Revision of sec-4	10	

11	38		
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12	41		
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	43		
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13		Pre University Exams	

Name of Faculty:- Madhu Dahiya
 Discipline:- CSE
 Semester:- 5th
 Subject: Web Development
 Lesson Plan duration:- 1st August 2018 to 30 November 2018

Week	Theory		Practical	
	Lecture Day	Topic (including assignment/ test)	Practical Day	Experiment
1	1	Intro java	1	Class and objects,loops
	2	operators		
	3	Class and Methods		
	4	Arrays		
2	5	Inheritance	2	Function,IF-Else
	6	Polymorphism		
	7	Threads		
	8	Package		
3	9	Interface	3	Structure and Array
	10	Exception Handling		
	11	Applets		
	12	Generic aand Collection		
4	13	revision of Sec-1	4	Inheritance
	14	WWW,XML,XHTML		
	15	HTML,DHTML,W3C		
	16	Meta and Sementic tags		
5	17	CSS	5	AppLets
	18	CSS		
	19	Java Script		
	20	Java Script		
6		Sessional Exams		
7	21	contd..	6	package and Interface
	22	revision of Sec-2		
	23	Server side pggming		
	24	CGI		
8	25	ASP	7	Exception Handling
	26	JSP		
	27	i/o operaton on WWW		
	28	form Processing		
9	29	contdd..	8	BASic HTML
	30	Revision of Sec-3		
	31	Dynamic topologies		
	32	MT over web pages		
10	33	VRML	9	CSS
	34	Applets		
	35	.net		
	36	contd..		
	37	contd..	10	

11	38	Revision of sec-4		Web site designing
	39			
	40			
12	41			
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	43			
	44			
13		Pre University Exams		

Name of Faculty:- Madhu Dahiya
 Discipline:- CSE
 Semester:- 3rd
 Subject: Data Structure
 Lesson Plan duration:- 1st August 2018 to 30 November 2018

S.NO.	TOPIC COVERED
1	Overview of 'C' :Introduction , Flow of Control, Input output functions
2	Arrays and Structures, Functions., , ,.
3	Data structures and Algorithms: an overview : concept of data structure, choice of right structures,
4	types of data structures, basic terminology Algorithms,
5	how to design and develop an algorithm: stepwise refinement, use of accumulators and counters;
6	algorithm analysis, complexity of algorithms
7	Big-oh notation.
8	Arrays : Searching Sorting:
9	Introduction, One Dimensional Arrays, operations defined : traversal, selection,
10	searching, insertion, deletion, and sorting
11	Searching: linear search, binary search
12	Sorting : selection sort, bubble sort, insertion sort
13	,, merge sort, quick sort, shell sort
14	Multidimensional arrays, address calculation of a location in arrays.
15	Stacks and queues: Stacks, array representation of stack. Applications of stacks.
16	Queues, Circular queues
17	array representation of Queues,. Deques
18	priority queues, Applications of Queues
19	Pointers and Linked Lists; Pointers: Pointer variables
20	Pointer and arrays, array of pointers
21	pointers and structures, Dynamic allocation.
22	Linked Lists: Concept of a linked list,. Circular linked list
23	doubly linked list, operations on linked lists.
24	Concepts of header linked lists. Applications of linked lists,
25	, linked stacks, linked Queues
26	Trees and Graphs Trees: Introduction to trees,
27	binary trees, representation and traversal of trees,
28	operations on binary trees
29	types of binary trees, threaded binary trees
30	B Trees Application of trees
31	Graphs : Introduction, terminology, 'set, linked and matrix' representation
32	operations on graphs, Applications of graphs.
33	file Handling and Advanced data Structure Introduction to file handling, , ,
34	Data and Information, File concepts, File organization
35	files and streams, working with files.
36	AVL trees
37	Sets,list representation of sets, applications of sets
38	skip lists

Name of Faculty: Dr Kiran Malik

Discipline:- Computer Science

Semester:- 5TH

Subject: Theory of Automata Computation

Lesson Plan duration:- 1 Aug. 2018 to 30 Nov. 2018

Week	Theory		Practical Day
	Lecture Day	Topic (including assignment/ test)	
1	1	Finite Automata	1
	2	Regular Expressions: Finite State Systems	
	3	Problems of finite automata	
	4	Problems of regular expression	
2	5	Basic Definitions Non-Deterministic finite automata	2
	6	(N DFA), Deterministic finite automata (DFA)	
	7	Equivalence of DFA and N DFA Conversion of NFA to DFA Finite automata with Emoves	
	8	Regular Expressions	
3	9	Equivalence of finite automata and Regular Expressions	3
	10	Regular expression conversion and vice versa.	
	11	Introduction to Machines: Concept of basic Machine	
	12	Properties and limitations of FSM	
4	13	Moore and mealy Machines	4
	14	Numerical of Mealy Machines	
	15	Numerical of Moore Machines	
	16	Problems of mealy and moore machines	
5	17	Equivalence of Moore and Mealy machines,	5
	18	state and prove Arden's Method.	
	19	Problems of Arden's method	
	20	Properties of Regular Sets	
6		Sessional Exams:	
7	21	The Pumping Lemma for Regular Sets	6
	22	Applications of the pumping lemma	
	23	Closure properties of regular sets	
	24	Problems of regular expression	
8	25	Problems of pumping lemma	7
	26	Myhill-Nerode Theorem	
	27	Problems of Myhill-Nerode Theorem	
	28	minimization of finite Automata	
9	29	Minimization Algorithm.	8
	30	Problems of Minimization Algorithm.	
	31	Grammars: Definition	
	32	Context free and Context sensitive grammar,	
10	33	Ambiguity regular grammar	9
	34	Reduced forms	
	35	Removal of useless Symbols	

	36	unit production	
11		Sessional Exams:	
12	37	null production	10
	38	Chomsky Normal Form (CNF)	
	39	Griebach Normal Form (GNF).	
	40	Problems of grammars	
13	41	Problems of CNF AND GNF	
	42	Pushdown Automata: Introduction to Pushdown Machines	
	43	Application of Pushdown Machines	
	44	Turing Machines: Deterministic and Non-Deterministic Turing Machines	
	45	PCP Problem.	
14	46	Unrestricted grammars, Context sensitive languages	
	47	Relation between languages of classes.	
	48	Chomsky Hierarchies: Chomsky hierarchies of grammars	
	49	Design of T.M	
15		Pre University Exams	

Practical	
Experiment	

Name of Faculty: Madhu Dahiya
 Discipline:- Computer Science
 Semester:- 7th
 Subject: DOS

Lesson Plan duration:- 1 Aug. 2018 to 30 Nov. 2018

Week	Theory		Practical Day
	Lecture Day	Topic (including assignment/ test)	
1	1	Introduction on: Introduction on to Distributed System	1
	2	Goals of Distributed system	
	3	Hardware and Software concepts	
	4	Design issues	
2	5	Communication in distributed system: Layered protocols	2
	6	ATM networks	
	7	Client – Server model	
	8	Remote Procedure Calls and Group Communication	
3	9	Middleware and Distributed Operating Systems	3
	10	Synchronization in Distributed System: Clock synchronization	
	11	Mutual Exclusion	
	12	Election algorithm	
4	13	the Bully algorithm	4
	14	a Ring algorithm, Atomic Transactions	
	15	Deadlock in Distributed Systems	
	16	Distributed Deadlock Prevention	
5	17	Distributed Deadlock Detection	5
	18	Processes and Processors in distributed systems: Threads	
	19	System models,	
	20	Processors Allocation	
6		Sessional Exams:	
7	21	Scheduling in Distributed System	6
	22	Real Time Distributed System	
	23	Distributed file systems: Distributed file system Design	
	24	Distributed file system Implementation	
8	25	Trends in Distributed file system	7
	26	Distributed Shared Memory: What is shared memory	
	27	Consistency models	
	28	Page based distributed shared memory	
9	29	Shared variables distributed shared memory	8
	30	Case study MACH: Introduction to MACH	
	31	Process management in MACH	
	32	Communication in MACH	
10	33	UNIX emulation in MACH	9
	34	Detailed Distributed file systems	
	35	Types of Election algorithm	

	36	Another type of election algorithm	
11		Sessional Exams: 2	
12	37	Layered Protocols in distributed systems	10
	38	Distributed Shared Memory	
	39	Deadlock in Distributed	
	40	Prevention and avoidance Schemes in deadlocks	
13	41	Class test plan	
	42	Revision of section 1	
	43	Revision of section 2	
	44	Revision of section 3	
	45	Revision of section 4	
14		Pre University Exams	

Practical	
Experiment	

Name of Facul Dr (Mrs) AMAN DAGAR

Discipline:- B.tech

Semester:- 7th

Subject: Advance Java [Theory + Lab]

Lesson Plan duration:- 1 July 2018 to 30 November 2018

Week	Theory		Practical	
	Day	Topic (including assignment/ test)	Practical Day	Experiment
1	1	Introduction to Java, Data types, Variables, Operators,	1	Program for implementing general features of Java
	2	Arrays		
	3	Control Statements,		
	4	Classes & Methods		
2	5	,Inheritance,	2	Program for implementing Inheritance & Multithreading
	6	Exception Handling		
	7	Multithreading		
	8	Collections		
3	9	Revision	3	Applet Programming
	10	I/O streams		
	11	AVVT & Apolet Programming.		
	12	AVVT & Apolet Programming.		
4	13	AVVT & Apolet Programming.	4	Applet Programming
	14	I/O streams		
	15	AVVT & Apolet Programming.		
	16	Revision		
5	17	Connecting to a Server	5	Applet Programming
	18	Implementing Servers		
	19	Sending E-Mail,		
	20	Making URL Connections		
6		Sessional Exams		
7	21	Advanced Socket Programming	6	Develop program related to JDBC
	22	The Design of JDBC. The Structured Query Language, JDBC Installation		
	23	Basic JDBC Programming Concepts, Query Execution, Scrollable and Updatable Result Sets		
	24	Metadata, Row Sets, Transactions, Advanced Connection Management, Introduction of LDAP		
8	25	The Roles of Client and Server, Remote Method Invocations, Setup for Remote Method Invocation,	7	Develop program related to Servlets
	26	Parameter Passing in Remote Methods Ser		
	27	Java IDL and CCRA, Remote Method Calls with SOAP		

	28	Lists, Trees, Tables, Styled Text Components, Progress Indicators, Component Organizers		
9	29	The Rendering Pipeline, Shapes, Areas, Strokes, Paint, Coordinate Transformations, Clipping	8	Develop program related to Beans
	30	Transparency and Composition, Rendering Hints, Readers and Writers for Images,		
	31	Image Manipulation, Printing. The Clipboard, Drag and Drop		
	32	Revision		
10	33	Beans, The Bean-Writing Process. Naming Patterns for Bean	9	To study various RMI
	34	Using Beans to Build an Application		
	35	Using Beans to Build an Application		
	36	Using Beans to Build an Application		
11	37	Components and Events Bean Property Tubes Bean info Classes Property Editors Cuatomizes	10	Develop program related to JSP
	38	Class Loaders, Bytecode Verification		
	39	Security Managers and Permissions		
	40	Digital Signatures, Code Signing, Encryption		
12	41	Revision		
	42	Revision		
	43	Revision		
	44	Revision		
13		Pre University Exams		

Name of Faculty:-

Discipline:-

Semester:-

Subject:

Lesson Plan duration:-

Week	Lecture Day
1	1
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Dr (Mrs) AMAN DAGAR

B.Tech

7th

SPM [Theory Only]

1 July 2018 to 30 November 2018

Theory
Topic (including assignment/ test)
Definition of a Software Project (SP), SP Vs. other types of projects activities covered by SPM, Categorizing SPs
project as a system, management control, Requirement specification, information and control in organization
Stepwise Project planning: Introduction, selecting a project, identifying project scope and objectives
Identifying project infrastructure, analyzing project characteristics, identifying project products and activities
Estimate efforts each activity, identifying activity risk, allocate resources, review/ publicize plan.
Project Evaluation & Estimation: Cost benefit analysis, cash flow forecasting
Cost benefit evaluation techniques
Risk evaluation
Problem Taking
Selection of an appropriate project report; Choosing technologies, choice of process model
Structured methods, rapid application development
Water fall-, V-process-, spiral- models
Prototyping, delivery
Albrecht function point analysis
Activity planning & Risk Management: Objectives of activity planning, project schedule
Projects and activities, sequencing and scheduling activities
Network planning model, representation of lagged activities
Adding the time dimension, backward and forward pass
Identifying critical path, activity throat, shortening project
Precedence networks.
Risk Management: Introduction, the nature of risk, managing risk, risk identification, risk analysis
Reducing the risks, evaluating risks to the schedule, calculating the z values..
Resource allocation & Monitoring the control: Introduction, the nature of resources, identifying resource requirements
Scheduling resources creating critical paths, counting the cost, being specific
Publishing the resource schedule, cost schedules, the scheduling sequence.
Monitoring the control: Introduction, creating the frame work, collecting the data,
Visualizing progress
Cost monitoring, earned value
prioritizing monitoring, getting the project back to target
Change control

Change control
Revision
Managing contracts and people: Introduction, types of contract, stages in contract
Placement, typical terms of a contract, contract management, acceptance
Managing people and organizing terms
Introduction, understanding behavior, organizational behavior: a back ground
selecting the right person for the job, instruction in the best methods, motivation
working in groups, becoming a team, decision making
leadership, organizational structures, conclusion
Introduction, the place of software quality in project planning, the importance of software quality
defining software quality, ISO 9126, Practical software quality measures product versus process quality management, external standards, techniques to help enhance software quality . Study of Any Software Project Management software: viz Project 2000 or equivalent

Pre University Exams

Name of Faculty:- Er Sandeep Kumar
 Discipline:- B.Tech
 Semester:- 7th
 Subject: Neural Networks [Theory Only]
 Lesson Plan duration:- 1 July 2018 to 30 November 2018

Week	Theory		Practical Day
	Lecture Day	Topic (including assignment/ test)	
1	1	Overview of biological neurons: Structure of biological neurons relevant to ANNs.	1
	2	Fundamental concepts of Artificial Neural Networks	
	3	Models of ANNs; Feedforward & feedback networks	
	4	learning rules; Hebbian learning rule,	
2	5	Perception learning rule,	2
	6	Delta learning rule,	
	7	Widrow-Hoff learning rule,	
	8	Correction learning rule	
3	9	Winner-take all learning rule	3
	10	Single layer Perception Classifier: Classification model, Features & Decision regions	
	11	Training & classification using discrete perceptron	
	12	Algorithm	
4	13	Single layer continuous perceptron networks for linearly separable classifications	4
	14	Multi-layer Feed forward Networks: linearly non-separable pattern classification	
	15	Delta learning rule for multi-perceptron layer	
	16	Generalized delta learning rule	
5	17	Error back-propagation training	5
	18	Learning factors	
	19	Single layer feed back Networks: Basic Concepts	
	20	Hopfield networks	
6		Sessional Exams	
7	21	Training & Examples	6
	22	Associative memories	
	23	Linear Association	
	24	Basic Concepts of recurrent Auto associative memory	
	25	Retrieval algorithm	

8	26	storage algorithm	7
	27	By directional associative memory	
	28	Architecture	
9	29	Association encoding & decoding	8
	30	Stability	
	31	Self organizing networks: UN supervised learning of clusters	
	32	Winner-take-all learning	
10	33	Recall mode	9
	34	Initialisation of weights	
	35	Seperability limitations	
		Pre University Exams	10

Practical

Experiment

WAP to perform various operations on variables

Basic Operation on matrix
Basic arithmetic operation on matrix

WAP to plot straight line
WAP to plot sine curve

Study of fuzzy logic
Study of fuzzy logic tool box

Solve the tipping problem

Rudimentary air flow mixing control

Automated washing machine control

Implement the automated washing machine control
with changes in key parameters

Student result on the basis of attendance and
performance

Difference between mamdani and sugano

Name of Faculty:- Er Sandeep Kumar
 Discipline:- B.Tech
 Semester:- 7th
 Subject: Principles of operating system [Theory Only]
 Lesson Plan duration:- 1 July 2018 to 30 November 2018

Week	Theory		Practical Day
	Lecture Day	Topic (including assignment/ test)	
1	1	Introduction to Operating System	1
	2	Multitasking, multiprogramming	
	3	Multi user, Multithreading	
	4	Types of Operating Systems: Batch operating system	
2	5	Time-sharing systems	2
	6	Distributed OS	
	7	Network OS	
	8	Real Time OS	
3	9	Various Operating system services	3
	10	Architecture	
	11	System programs and calls	
	12	Process Management: Process concept, process scheduling	
4	13	Operation on processes; CPU scheduling, scheduling criteria	4
	14	Scheduling algorithms -First Come First Serve (FCFS), Shortest-Job-First (SJF),	
	15	Priority Scheduling,	
	16	Round Robin(RR), Multilevel Queue Scheduling.	
5	17	Memory Management: Logical & Physical Address Space	5
	18	Swapping, contiguous memory allocation,	
	19	Non-contiguous memory allocation paging and segmentation techniques,	
	20	Segmentation with paging	
6		Sessional Exams	
7	21	Virtual memory management - Demand Paging & Page-Replacement Algorithms	6
	22	Demand Segmentation	
	23	File System: Different types of files and their access methods,	
	24	Directory structures, various allocation methods, disk scheduling	
8	25	Management and its associated algorithms	7
	26	Introduction to distributed file system	
	27	Process-Synchronization & Deadlocks: Critical Section Problems	
	28	Semaphores; methods for handling deadlocks-deadlock prevention,	
9	29	Avoidance & detection; deadlock recovery.	8
	30	I/O Systems: I/O Hardware,	

	31	Application I/O Interface	
	32	Kernel, Transforming I/O requests,	
10	33	Performance Issues and Thresds	9
	34	Unix System And Windows NT Overview	
	35	Unix system call for processes and file system management	
	36	Shell interpreter,	
11	37	Windows NT architecture overview	10
	38	Windows NT file system	
		Pre University Exams	

Practical
Experiment
To study the basics of window 2000 operating system.
To study unix operating system
To study linux operating system
To study the administrator of window linux operating system.
To study the basics of window nt operating system.
To study window 8 operating system.
Write a program to print the pattern.
Program to print user

information date and time.

Program to print user
information date and time.

Write program to perform
calculation.

Name of Faculty:- JYOTI
 Discipline:- CSE
 Semester:- 5th
 Subject: Multimedia Technology
 Lesson Plan duration:- 29 January 2017 to 30 April 2017

Week	Theory		Practical Day
	Lecture Day	Topic (including assignment/ test)	
1	1	Computer,comm.and entertainment	1
	2	MM intro,frameworkn of mm	
	3	MM Devices	
	4	Contd..	
2	5	MM presentation and aaaauthoring	2
	6	Professional develo-pment tools	
	7	LAN and mm,internet,www	
	8	ATM,ADSL	
3	9	MM server and DB	3
	10	Vector Graphics and 3D	
	11	Animation Techniques	
	12	Video on Demand	
4	13	REVISION	4
	14	Making still images,Image Processing	
	15	Colors models	
	16	colors palettes	
5	17	vector ,3D ,Rendering	5
	18	JPEG	
	19	Contd..	
	20	Contd..	
6		Sessional Exams	
7	21	Image file formats	6
	22		
	23	Contd..	
	24	Contd..	
8	25	Fourier methods	7
	26	Signal Processing	
	27	contd..	
	28	MPEG	
9	29	cond..	8
	30	Speech recognition	
	31	DVI	
	32	Contd..	
10	33	VR	9
	34	VROS	
	35	Virtual environment displays and orientation making	
	36	intelligent VR software system	
	37	VR application	10

11	38	REVISION	
	39		
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12	41		
	42		
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	44		
13		Pre University Exams	

Practical
Experiment
Growing Moon
Bouncing Ball
Movement of clouds
Movement of fans blades
Show Background with name
letter animation
Ball hitting another ball
Editing image using photoshop
Editing image using photoshop

Name of Faculty:- Dr. Kiran Malik
 Discipline:- CSE
 Semester: B.Tech 7th sem.
 Subject: Advanced Computer Architecture
 Lesson Plan duration:- 30 July 2018 to 30 Nov 2018

Week	Theory	
	Lecture Day	Topic (including assignment/ test)
1	1	definition and terms
	2	interpretation and microprogramming
	3	The instruction set,
	4	Basic data types
2	5	Instructions,
	6	Addressing and Memory
	7	Virtual to real mapping
	8	Basic Instruction Timing.
3	9	Time, cost-area,
	10	technology state of the Art,
	11	The Economics of a processor project
	12	Continues
4	13	A study,
	14	Instruction sets,
	15	Professor Evaluation Matrix
	16	Contd.
5	17	Basic Notion,
	18	Cache Organization,
	19	Cache Data,
	20	other types of Cache.
6	21	Split I and D-Caches,
	22	on chip caches, Two level Caches,
	23	write assembly Cache, Cache references per instruction,
	24	technology dependent Cache considerations,
7	25	virtual to real translation
	26	,overlapping the Tcycle in V-R Translation,
	27	studies. Design summary
	28	contd.
8		Sessional Exams
9	29	The physical memory,
	30	models of simple processor memory interaction,
	31	Contd.
	32	processor memory modeling using queuing theory

10	33	Contd.
	34	open, closed queue model
	35	mixed-queue model
	36	waiting time, performance, buffer size,
11	37	review and selection of queueing models.
	38	processors with cache
	39	Contd. ,Examples
	40	Vector Processors,
12	41	Vector Memory,
	42	problems
	43	problems
	44	problems
13		Sessional Exams
14	45	Multiple Issue Machines,
	46	Comparing vector
	47	Multiple Issue processors.Shared Memory
	48	Examples/Programming
15	49	contd
	50	contd
	51	problems
	52	problems
16	53	problems
	54	revision
	55	revision
	56	revision
17	57	Revision
	58	Revision
	59	Revision
	60	Revision
18		Sessional Exams