#132, AECS Layout, IT Park Road, Kundalahalli, Bangalore – 560 037

T:+9180 28524466 / 77

CMR INSTITUTE

OF TECHNOLOGY



Session wise – Course Plan

Department of Telecommunication Engineering

SEMESTER: V

BRANCH: TCE

SUBJECT: MANAGEMENT AND ENTREPRENEURSHIP

SUBJECT CODE: 15ES51

NO OF HRS/WK: 5

NAME OF THE FACULTY: CHITRALEKHA G

DATE OF COMMENCEMENT: 07.08.2017

DATE OF CLOSING: 16.11.2017

CLASS STRENGTH: 43

TOTAL HOURS: 55

	Chapter	Date	Topics planned for the session	Teaching	Assignments/T	Topics
~ ·	no			Aids	ests planned for	covered
Session	(No of				the chapter	as per
No	hrs				_	plan
	planned					-
	for the					
	chapter)					
1	1/11	8/8/2017	Introduction	Board &		
				chalk		
2	2/11	8/8/2017	Module I- Management:	,,		
			Definition, Importance – Nature			
			and Characteristics of			
			Management.			
3	3/11	9/8/2017	Management Functions and	,,		
			Roles of Manager			
4	4/11	10/8/2017	Levels of Management,	,,		
			Managerial Skills and			
			Management and Administration			
5	5/11	12/8/2017	Management as Science, Art and	"		
			Profession			

6	6/11	16/8/2017	Planning : Nature, Importance and Purpose of Planning, Types of Plans	,,		
7	7/11	16/8/2017	Types of Plans			
8	8/11	17/8/2017	Steps in Planning and Limitations of Planning	,,		
9	9/11	18/8/2017	Decision Making – Meaning, Types of Decisions.	,,		
10	10/11	21/8/2017	Types of Decisions and Steps in Decision Making	,,		
11	11/11	23/8/2017	Discussion Forum	,,	Assignment - I	
12	1/11	23/8/2017	Module II – Organizing and Staffing: Meaning, Nature and Characteristics of Organization.	>>		
13	2/11	24/8/2017	Process and Principles of Organization	Power Point Presentati on		
14	3/11	28/8/2017	Departmentalization, Committees – Meaning and Types of Committees	Power Point Presentati on		
15	4/11	30/8/2017	Centralization versus Decentralization of Authority and Responsibility and Span of Control	Board and Chalk		
16	5/11	1/9/2017	Nature and importance of Staffing, Process of Selection and Recruitment	,,		
17	6/11	1/9/2017	Directing and Controlling: Meaning and Nature of Directing and Leadership Styles	,,		
18	7/11	4/9/2017	Motivation Theories Communication – Meaning and Importance	,,		
19	8/11	5/9/2017	Motivation Theories Communication – Meaning and Importance	,,		

20	9/11	7/9/2017	Coordination – Meaning and Importance and Techniques of Coordination	,,	
21	10/11	9/9/2017	Controlling – Meaning and Steps in Controlling	,,	
22	11/11	9/9/2017	Discussion Forum	,,	Assignment - II
23	1/11	11/9/2017	Module III – Social Responsibilities of Business: Meaning of Social Responsibility and Social Responsibilities of Business towards Different Groups	,,	
24	2/11	12/9/2017	Social Responsibilities of Business towards Different Groups and Social Audit	"	
25	3/11	14/9/2017	Business Ethics and Corporate Governance	,,	
26	4/11	22/9/2017	Entrepreneurship: Definition, Importance and Concepts of Entrepreneurship and Characteristics of a Successful Entrepreneur	"	
27	5/11	22/9/2017	Classification of Entrepreneurs	,,	
28	6/11	23/9/2017	Classification of Entrepreneurs, Intrapreneur – An Emerging Class and Comparison between Entrepreneur and Intrapreneur	,,	
29	7/11	25/9/2017	Myths of Entrepreneurship and Entrepreneurial Development models	,,	
30	8/11	27/9/2017	Entrepreneurial development cycle	,,	
31	9/11	3/10/2017	Problems faced by Entrepreneurs and Capacity building for Entrepreneurship	,,	
32	10/11	3/10/2017	Problems faced by Entrepreneurs and Capacity building for	,,	

			Entrepreneurship			
33	11/11	4/10/2017	Discussion Forum	"	Assignment – III	
34	1/10	6/10/2017	Module IV – Modern Small Business Enterprises: Role of Small Scale Industries	,,		
35	2/10	9/10/2017	Concepts and Definitions of SSI Enterprises	,,		
36	3/10	11/10/2017	Government Policy and Development of the Small Scale Sector in India.	,,		
37	4/10	11/10/2017	Growth and Performance of Small Scale Industries in India	"		
38	5/10	12/10/2017	Sickness in SSI sector and Problems for Small Scale Industries	,,		
39	6/10	13/10/2017	Impact of Globalization on SSI, Impact of WTO/GATT on SSIs.	"		
40	7/10	16/10/2017	Ancillary Industry and Tiny Industry Institutional Support for Business Enterprises: Introduction	"		
41	8/10	23/10/2017	Policies and Schemes of Central Level Institutions	"		
42	9/10	23/10/2017	Policies and Schemes of State Level Institutions	,,		
43	10/10	24/10/2017	Discussion Forum	,,	Assignment –IV	
44	1/12	25/10/2017	Module V – Project Management: Meaning of Project, Project Objectives and Characteristics	22		

45	2/12	27/10/2017	Project Identification – Meaning and Importance, Project Life Cycle, Project Scheduling	,,		
46	3/12	30/10/2017	Capital Budgeting, Generating an Investment Project Proposal	"		
47	4/12	30/10/2017	Project Report - Need and Significance of Report, Contents, Formulation	,,		
48	5/12	31/10/2017	Project Analysis – Market, Technical, Financial, Economic and Ecological	**		
49	6/12	2/11/2017	Project Evaluation and Selection, Project Financing	,,		
50	7/12	4/11/2017	Project Implementation Phase	,,		
51	8/12	10/11/2017	Human and Administrative aspects of Project Management, Prerequisites for Successful Project Implementation	,,		
52	9/12	10/11/2017	New Control Techniques – PERT and CPM	,,		
53	10/12	13/11/2017	Steps involved in developing the network	"		
54	11/12	14/11/2017	Uses and Limitations of PERT and CPM	>>	Assignment -V	
55	12/12	16/11/2017	Discussion Forum	>>		

Signature of HOD

Signature of Principal

CMR Institute of Technology, Bengal	SS 15 YEARS				
Department: Telecommunication Engineering Semester: 05 Sections: ECE D and TCE B					
Subject: Digital Signal Processing		15EC/TE52	Lectures/week: 06		
Course Instructor: Mr. Raveesh Hegde Course duration: Aug-Nov, 2017					

Lecture #	Topics	Portions
		Coverage %
1-10	Review of Signals and Systems: Fourier Series (FS), Fourier Transform (FT),	0
	Discrete-time Fourier series (DTFS), Discrete-time Fourier transform (DTFT), Z-	
	Transform, Sampling Theorem, and Dirac Delta Functions.	
	Assignment #0: Review of Signals and Systems	
11-21	Discrete Fourier Transforms (DFT): Frequency domain sampling and	20
	reconstruction of discrete time signals. DFT as a linear transformation, its	
	relationship with other transforms. Properties of DFT, multiplication of two DFTs-	
	the circular convolution	
	Assignment #1: Discrete Fourier Transform	
22-32	Additional DFT properties, use of DFT in linear filtering, overlap-save and	20
	overlap-add method.	
	Fast-Fourier-Transform (FFT) algorithms: Direct computation of DFT, need for	
	efficient computation of the DFT (FFT algorithms).	
	Assignment #2: Properties of DFT, Filtering of Long Sequences	
33-43	Radix-2 FFT algorithm for the computation of DFT and IDFT-decimation-in-time	20
	and decimation-in-frequency algorithms. Goertzel algorithm, and chirp-z	
	transform.	
	Assignment #2: FET Algorithms	
	Assignment #5. 1111 Algorithms	
44-54	Structure for IID Systems: Direct form Cascade form Derellal form structures	20
	Structure for the Systems: Direct form, Cascade form, Parallel form structures.	20
	IIR filter design: Characteristics of commonly used analog filter – Butterworth and	
	Chebyshev filters, analog to analog frequency transformations.	

	Design of IIR Filters from analog filter using Butterworth filter: Impulse invariance, Bilinear transformation. Assignment #4: Design and Implementation of IIR filters	
55-65	Structure for FIR Systems: Direct form, Linear Phase, Frequency sampling structure, Lattice structure.FIR filter design: Introduction to FIR filters, design of FIR filters using -	20
	Rectangular, Hamming, Hanning and Bartlett windows. Assignment #5: Design and Implementation of FIR Filters	

Syllabus forInternal Assessment Tests(IAT)*

IAT	Portion
IAT-1	Class# 11 –30
IAT-2	Class# 21–55
IAT-3	Class# 56-65

*Seecalendarofeventsfor theschedulesof IATs.

Literature:

BookType	Code	Author&Title	Publication info
TextBook	TB	Proakis&Manolakis-Digital	Pearson education, 4th
		signal processing – Principles	Edition, New Delhi,
		Algorithms & Applications	2007
Reference	RB1	Oppenheim & Schaffer- Discrete Time	PHI, 2003, 2 nd edition
		Signal Processing	
Reference	RB2	S. K. Mitra, Digital Signal Processing.	Tata Mc-Graw Hill, 3 rd Edition, 2010
Reference	RB3	Lee Tan, Digital Signal Processing: Fundamentals and Applications	Elsevier publications, 2007

#132, AECS Layout, IT Park Road, Kundalahalli, Bangalore – 560 037 T:+9180 28524466 / 77

CMR INSTITUTE OF TECHNOLOGY



Session wise – Course Plan

SEMESTER/SECTION:	5
BRANCH :	TCE
SUBJECT :	Verilog HDL
SUBJECT CODE :	15EC53
NO OF HRS/WEEK :	5

NAME OF THE FACULTY: Sophiya Susan S DATE OF COMMENCEMENT: 07/08/2017 DATE OF CLOSING: 16/11/2017 CLASS STRENGTH: 43(A sec)/44(B sec) TOTAL HRS: 55

Sessio n No	Chapter no (No of hrs planed for the chapter)	DATE	Topics planned for the session	Teachi ng Aids	Assignments/ Testsplanned for the chapter	Topics covered As per plan
1.	Proposicitos	7/08/2017	Logic Design	Board, Chalk, Duster		
2.	rrerequisites	8/08/2017	Logic Design	Board, Chalk, Duster	Assignment – 1	
3.		9/08/2017	Overview of Digital Design with Verilog HDL: Evolution of CAD, Emergence of HDLs	Board, Chalk, Duster		
4.	Module 1 (Text 1: Chapter 1 &	10/08/201 7	Typical HDL-flow	Board, Chalk, Duster		
5.	2)	11/08/201 7	Why Verilog HDL?	Board, Chalk, Duster		
6.		14/08/201 7	Trends in HDLs	Board, Chalk, Duster		

		16/08/201	Hierarchical Modeling	Board,	Assignment –	
7		7	Concepts: Top-down and	Chalk,	2	
1.			bottom-up design	Duster		
			methodology			
		17/08/201	Differences between	Board,		
8.		7	modules and Module	Chalk,		
			instances	Duster		
		18/08/201	Parts of a simulation	Board.		
9.		7		Chalk,		
				Duster		
		19/08/201	Design block, Stimulus	Board,		
10.		7	block	Chalk,		
				Duster		
		22/08/201	Basic Concepts:	Board,		
11.		7	Lexical conventions	Chalk,		
				Duster		
10		23/08/201	Data types	Board,		
12.		1		Chalk,		
		24/08/201		Duster		
13		24/08/201	Data types(contd.)	Doard, Chalk		
15.	Module 2	/		Duster		
	(Text 1:	28/08/201	System tasks Compiler	Board.	Assignment –	
14.	Chapter 3 &	7	directives	Chalk.	3	
	4)		directives	Duster		
		29/08/201	Modules and Ports: Module	Board,		
		7	definition, port	Chalk,		
1.5			declaration	Duster		
15.			Connecting ports			
			Hierarchical name			
			referencing			
		31/08/201	Gate-Level Modeling:	Board.		
16.		7	Modeling using basic	Chalk,		
			Verilog gate primitives	Duster		
		1/09/2017	Description of and/or and	Board,		
17.	M. J1. 2		buf/not type gates	Chalk,		
	Module 3		Sull not type gates	Duster		
	Chapter 5 &	4/09/2017	Rise, Fall delays	Board,		
18.	6)			Chalk,		
				Duster		
		5/09/2017	Turn-off delays	Board,	Assignment –	
19.				Chalk,	4	
				Duster		
20.		6/09/2017	Min, Max, and Typical	Board,		

			delays	Chalk,		
				Duster		
		8/09/2017	Dataflow Modeling:	Board,		
21.			Continuous assignments	Chalk,		
				Duster		
		9/09/2017	Delay specification	Board,		
22.			expressions	Chalk,		
				Duster		
		11/09/201	Operators, Operands	Board,	Assignment –	
23.		7		Chalk,	5	
				Duster		
		12/09/201	Operator types	Board,		
24.		7		Chalk,		
				Duster		
		13/09/201	Behavioral Modeling:	Board,		
25.		7	Structured procedures	Chalk,		
		4		Duster		
		15/09/201	Initial and Always	Board,		
26.		7	Statements	Chalk,		
		22/00/201		Duster		
27		22/09/201	Blocking statements, Non-	Board,		
27.		7	Blocking statements	Chalk,		
		22/00/201		Duster		
20		23/09/201	Delay control statements	Board,		
28.	Module 4	/		Dustor		
	(Text I: Chapter 5 8:	25/00/201	Concernation at a tomore to Essent	Duster	Assignment	
20	Chapter 5 &	25/09/201	Generate statement, Event	Dualu,	Assignment –	
29.	0)	/	control statements	Dustor	0	
		26/00/201	Conditional statements	Board		
30		20/03/201	Conditional statements,	Chalk		
50.		1	Multiway branching	Duster		
		28/09/201	Loop statements	Board		
31		7	Loop statements	Chalk		
51.		,		Duster		
		3/10/2017	Sequential and parallel	Board.		
32.		0/10/2011	blocks	Chalk.		
			DIOCKS	Duster		
		4/10/2017	Introduction to VHDL	Board.		
33.			Introduction: Why use VHDL?	Chalk.		
	Module 5			Duster		
	(Text 2:	6/10/2017	Shortcomings	Board.		
34.	Chanter 1 &			Chalk,		
	3)			Duster		
~~		7/10/2017	Using VHDL for Design	Board,	Assignment –	
35.			Synthesis	Chalk,	7	
						1

			Duster		
	10/10/201	Design tool flow	Board,		
36.	7		Chalk,		
			Duster		
	11/10/201	Font conventions	Board,		
37.	7		Chalk.		
			Duster		
	12/10/201	Entities and Architectures:	Board.		
38	7	Introduction A simple	Chalk.		
50.		docign	Duster		
	12/10/201		Doord		
20	15/10/201	Design Entitles	Doard,		
39.	/		Chalk,		
	14/10/201		Duster		
10	14/10/201	Design Entities (Contd.)	Board,		
40.	1		Chaik,		
	1=/10/001		Duster		
	17/10/201	Identifier	Board,		
41.	7		Chalk,		
			Duster		
	23/10/201	Data objects	Board,	Assignment –	
42.	7		Chalk,	8	
			Duster		
	24/10/201	Data types	Board,		
43.	7		Chalk,		
			Duster		
	25/10/201	Data types(Contd.)	Board,		
44.	7		Chalk,		
			Duster		
	26/10/201	Attributes.	Board,		
45.	7		Chalk,		
			Duster		
	28/10/201	Revision	Board,		
46.	7		Chalk,		
			Duster		
17	30-	Unit test – 3	-		
+7.	/10/2017				
	31-	Revision	Board,		
48.	/10/2017		Chalk,		
			Duster		
49.	2/11/2017	Revision	Board		
50.	311/2017	Revision	Board		
51.	9/11/2017	Revision	Board		
	10/11/201	Revision	Board		
52.	7				
53.	13/11/201	Revision	Board		

	7			
54.	14/11/201	Revision	Board	
	7			
55	15/11/201	Revision	Board	
55.	7			

Signature of HOD

Signature of Principal

#132, AECS Layout, IT Park Road, Kundalahalli, Bangalore – 560 037 T:+9180 28524466 / 77

CMR INSTITUTE OF TECHNOLOGY



Lesson Plan

DEPARTMENT OF TELECOMMUNICATION ENGINEERING

NO OF HRS/WK : 5 IOTAL HRS : 55	SEM	: V	NAME OF THE FACULTY	: Shruthi M. L. J.
	BRANCH	: TCE	DATE OF COMMENCEMENT	: 07.08.2017
	SUBJECT	: ITC	DATE OF CLOSING	: 15.11.2017
	SUBJECT CODE	: 15EC54	CLASS STRENGTH	: 60
	NO OF HRS/WK	: 5	TOTAL HRS	: 55

No	Chapter no (No of hrs planed for the chapter)	Date	Topics planned for the session	Teaching Aids	Assignments/Tests planned for the chapter	Topics covered As per plan
1	-	07-08	Model of communication system, Introduction to Probabilities, Joint probabilities,	Board, chalk, duster		
2	-	08-08	Probability distribution function, Random variables, Discrete random variables,	" <u>"</u> "		
3	-	09-08	Continuous random variables, Random process, Noise in communication system Perquisite	" <u>"</u> "		
4	1/1	10-08	Information theory: Introduction, Measure of information,.	" <u>"</u> "	Assignment 1	
5	2/1	11-08	Average information content of symbols in long independent sequences	" <u>"</u> "		
6	3/1	14-08	Problems on information content, Calculation of entropy.	<i>a_</i> "		

7	4/1	16-08	Information rate, average information rate. Numerical calculations.	«_»		
8	5/1	17-08	Average information content of symbols in long dependent sequences.	" <u>"</u>		
9	6/1	18-08	Numerical	"_"		
10	7/1	19-08	Markov statistical model for information source.	" <u>"</u>		
11	8/1	22-08	Entropy and Information rate of markov source.	" <u>"</u> "		
12	9/1	23-08	Problems on markov sources. Key points.	"_"		
13	10/1	24-08	Revision and class test on Module-1	"_"		
14	1/2	28-08	Source Coding: Introduction to encoding the source output. Source coding theorem.	<i>a_</i> "	Assignment 2	
15	2/2	29-08	Prefix Codes Kraft McMillan Inequality Property	<i>"</i> _"		
16	3/2	31-08	Encoding of the Source Output, Shannon's Encoding Algorithm	<i>a_</i> "		
17	4/2	01-09	Shannon Fano Encoding Algorithm	"_"		
18	5/2	04-09	Huffman codes	"_"		
19	6/2	05-09	Numerical on Huffman codes	"_"		
20	7/2	06-09	Extended Huffman coding	<i>"_"</i>		
21	8/2	08-09	Arithmetic Coding	"_"		
22	9/2	09-09	Lempel – Ziv Algorithm	"_"		
23	10/2	11-09	Revision and class test on Module-2	" <u>"</u>		
24	1/3	12-09	Information Channels: Communication Channels	" <u>"</u>	Assignment 3	
25	2/3	13-09	Channel Models,	"_"		
26	3/3	15-09	Channel Matrix, Joint probability Matrix	"_"		
27	4/3	22-09	Binary Symmetric Channel,	"_"		
28	5/3	23-09	System Entropies, Mutual Information, Channel Capacity	"_"		
29	6/3	25-09	Channel Capacity of : Binary Symmetric Channel	"_"		
30	7/3	26-09	Binary Erasure Channel	" <u>"</u>		
31	8/3	28-09	Muroga's Theorem	"_"		
32	9/3	03-10	Continuous channels	" <u>"</u>		
33	10/3	04-10	Revision and class test on Module-3	<i>"</i> "		
34	1/4	06-10	Introduction to Error Control Coding:	"_"		

			Examples of error control coding.			
35	2/4	07-10	Methods of Controlling Errors, Types of Errors, types of Codes.	"_"		
36	3/4	10-10	Linear Block Codes Matrix description	" <u></u> "		
37	4/4	11-10	Error detection and correction,	" <u>_</u> "		
38	5/4	12-10	Single Error Correcting hamming Codes	"_"		
39	6/4	13-10	Standard arrays and table look up for decoding. Numerical	"_"		
40	7/4	14-10	Algebraic Structure of Cyclic Codes	"_"		
41	8/4	17-10	Encoding using an (n-k) Bit Shift register, Syndrome Calculation	"_"		
42	9/4	23-10	Error Detection and Correction	" <u>"</u> "		
43	10/4	24-10	Revision and class test on Module-4	<i>"</i> "		
44	1/5	25-10	Cyclic Codes: Golay Codes	"_"		
45	2/5	26-10	BCH Codes	" <u></u> "		
46	3/5	28-10	ConvolutionCodes:Introduction, Timedomainapproach	<i>"</i> _"		
47	4/5	30-10	Transform domain approach	"_"		
48	6/5	31-10	State table, state transition table.	"_"		
49	7/5	02-11	Trellis and State diagram. Code tree	"_"		
50	8/5	03-11	The Viterbi Algorithm	" <u></u> "		
51	9/5	09-11	Numerical and revision of Module-5	"_"		
52	10/5	10-11	Class test on Module-5	"_"	Assignment 5	
53		13-11	Revision	"_"		
54		14-11	Revision	" <u></u> "		
55		15-11	Revision	" <u>"</u>		

Signature of HOD

Signature of Principal



No.132, AECS Layout I.T. Park Road, Bangalore 560 037 T: +91 80 28524466/77, F: +91 80 28524630 E: info@cmr.ac.in I www.cmr.ac.in

DEPARTMENT OF INFORMATION SCIENCE & ENGINEERING

Department of Telecommunication and Engineering

SEMESTER : V BRANCH : TCE SUBJECT :Operating System SUBJECT CODE : 15EC553 NO OF HRS/WK : 5 NAME OF THE FACULTY: Priyanka RDATE OF COMMENCEMENT: 7/8/17DATE OF CLOSING: 25/11/17CLASS STRENGTH:TOTAL HRS: 55

Session No	Chapter no (No of hrs planed for the chapter)	DATE	Topics planned for the session	Teaching Aids	Assignments/ Tests planned for the chapter	Topics covered As per plan
1	1/1	7.8.17	Briefing the syllabus, Mode of class and study, Prerequisites of the course, Expectation from the student.	Chalk & Talk		
2	2/1	8.8.17	UNIT 1 INTRODUCTION AND OVERVIEW OF OPERATING SYSTEMS: Introduction about O.S	"		
3	3/1	9.8.17	Goals of an OS, Operation of an OS,	"		
4	4/1	12.8.17	Computational Structures, Resource allocation techniques,,	"		
5	5/1	12.8.17	Efficiency, System Performance and User Convenience,	"	Assignment-I	

6	6/1	14.8.17	Classes	"		
7	7/1	16.8.17	Batch processing,	د،		
8	8/1	17.8.17	Batch processing continued	"		
9	9/1	21.8.17	Time Sharing Systems			
10	10/1	22.8.17	Real Time systems			
11	11/1	23.8.17	distributed Operating Systems			
12	12/1	24.8.17	distributed Operating Systems continued			
13	13/1	30.8.17	Test on UNIT 1	"		
14	1/2	30.8.17	Unit 2:Process Management: OS View of Processes	"		
15	2/2	31.8.17	PCB	,,		
16	3/2	1.9.17	Fundamental State Transitions,	"		
17	4/2	1.9.17	Threads,	"		
18	5/2	4.9.17	Kernel and User level Threads,	"		
19	6/2	7.9.17	Non-preemptive scheduling- FCFS	.,	Assignment II	
20	7/2	7.9.17	SRN	,,		

21	8/2	8.9.17	Preemptive Scheduling- RR and LCN			
22	9/2	9.9.17	Long term medium term short term scheduling in a time sharing system			
23	10/2	11.9.17	Test on UNIT 2	,,		
24	1/3	14.9.17	Unit 3:Memory Management: Contiguous Memory allocation,	"		
25	2/3	14.9.17	Non-Contiguos Memory Allocation,	,,		
26	3/3	15.9.17	Non-Contiguos Memory Allocation continued	,,		
27	4/3	22.9.17	Paging,	"		
28	5/3	23.9.17	Paging continued	"		
29	6/3	27.9.17	Segmentation	٤٦		
30	7/3	28.9.17	Segmentation continued			
31	8/3	3.10.17	Segmentation with paging,			
32	9/3	4.10.17	Segmentation with paging continued	"		
33	10/3	9.10.17	Virtual Memory Management,			
34	11/3	10.10.17	Virtual Memory Management continued	,,	Assignment III	
35	12/3	11.10.17	Demand Paging,	"		

36	13/3	12.10.17	Demand Paging continued	,,		
37	14/3	16.10.17	VM handler FIFO LRU page replacement policies	,,		
38	1/4	17.10.17	Unit 4 File Systems: File systems and IOCS	"		
39	2/4	23.10.17	File Operations	"	Assignment IV	
40	3/4	27.10.17	File Organizations,	"		
41	4/4	28.10.17	Directory structures,	,,		
42	5/4	30.10.17	File Protection,	"		
43	6/4	31.10.17	Allocation of disk space,	د ۲		
44	7/4	4.11.17	Implementing file access			
45	8/4	4.11.17	Interface between File system and IOCS,			
46	1/5	9.11.17	Message Passing and Deadlocks: Overview of Message Passing,	,,		
47	2/5	10.11.17	Implementing message passing, Mailboxes,	"		
48	3/5	11.11.17	Deadlocks in resource allocation, Resource	"	Assignment V	
49	4/5	12.11.17	state modelling, Deadlock detection algorithm	"		
50	5/5	13.11.17	Deadlock Prevention	,,		

51	6/5	14.11.17	Deadlocks in resource allocation, Resource	,,		
52	7/5	15.11.17	Deadlock detection algorithm	"		
53	8/5	16.11.17	Deadlock Prevention	"	Assignment VI	
55	9/5	16.11.17	Deadlock Prevention continued	"		

Syllabus for Internal Assessment Tests (IAT)*

IAT #	Syllabus
IAT-1	Class # 01 – 23
(7.8.2017-11.9.2017)	
IAT-2	
(14.9.2017.27.10.2017)	Class # 24-27
(14.8.2017-27.10.2017)	
Improvement test	
	Class # 41-55
(28.10.2017-16.11.2017)	

*: See calendar of events for the schedules of IATs.

Literature:

			Publication in	nformation
Book Type	Code	Author & Title	Edition // Publisher	ISBN #
Text Book	TB1	Operating Systems – A concept based approachD. M. Dhamdhare,	2 nd Edition,McGraw Hill Education	978-0-07-061194
Reference	RB1	Operating Systems Concepts , Silberschatz and Galvin	John Wiley India Pvt. Ltd, 5th Edition, 2001.	
Reference	RB2	Operating System – Internals and Design Systems	Willaim Stalling, Pearson Education, 4th Ed, 2006.	978-81-203-4007-7
Reference	RB3		Tata McGraw Hill,2005	0071243461/0-07- 124346-1
Kerefelice	KD3	Design of Operating Systems, Tennambhaum,	TMH, 2001.	



DEPARTMENT OF INFORMATION SCIENCE & ENGINEERING

Department of Information Science and Engineering

SEMESTER	: V	NAME OF THE FACULTY	: Mrs. Anu Jose
BRANCH	: ISE	DATE OF COMMENCEMENT	: 17/8/2017
SUBJECT	: Programming in Java	DATE OF CLOSING	: 25/11/2017
SUBJECT CODE	: 15CS561	CLASS STRENGTH	: 60
NO OF HRS/WEEK	: 4	TOTAL HRS	: 40

Sessi on	Chapter no (No of hrs planed for	DATE	Topics planned for the session	Teaching Aids	Assignm ents/ Tests	Topics covered As per
INO	chapter)				for the	pian
					chapter	-
		15/00/2015	Module1	Chalk &		
	1/1	17/08/2017	An Overview of Java: Object- Oriented Programming.	Talk		
			A First Simple Program, Two	"		
2	2/1	18/08/2017	Control Statements, Using Blocks of Code.			
3	3/1	19/08/2017	Lexical Issues, The Java Class Libraries.	,,		
4	4/1	22/08/2017	Data Types, Variables, and Arrays: Java Is a Strongly Typed Language.	"		
5	5/1	24/08/2017	The Primitive Types, Integers, Floating-Point Types, Characters, Booleans, A Closer Look at Literals	"		
6	6/1	28/08/2017	Type Conversion and Casting, Automatic Type Promotion in Expressions	,,		
7	7/1	29/08/2017	Arrays, A Few Words About Strings	"	Assignm ent- I	
8	8/1	31/08/2017	Tutorials and Discussion Question Bank Creation and Discussions	,,		
9	1/2	4/09/2017	Module2 Operators: Arithmetic Operators, The Bitwise Operators	,,		

10	2/2	5/09/2017	Relational Operators, Boolean	"	
11	3/2	6/09/2017	The Assignment Operator, The ? Operator, Operator Precedence,	د ۲	
			Using Parentheses Control Statements: Java's		Assignm
12	4/2	8/09/2017	Selection Statements, Iteration Statements, Jump Statements,	"	ent-II
13	5/2	11/09/2017	Tutorials and Discussion Question Bank Creation and Discussions	"	
			Module3	"	
14	1/3	12/09/2017	Introducing Classes : Class Fundamentals, Declaring Objects, Assigning Object Reference Variables		
15	2/3	13/09/2017	Introducing Methods, Constructors, The this Keyword	"	
16	3/3	15/09/2017	Garbage Collection, The finalize() Method, Overloading Methods, Using Objects as Parameters	"	
17	4/3	23/09/2017	A Closer Look at Argument Passing, Returning Objects, Recursion	"	
18	5/3	25/09/2017	Introducing Access Control, A Stack Class, A Closer Look at Methods and Classes	"	
19	6/3	26/09/2017	Understanding static, Introducing final, Arrays Revisited	,,	
20	7/3	28/09/2017	Inheritance: Inheritance, Using super, Creating a Multilevel Hierarchy, When Constructors Are Called	د ۲	
21	8/3	4/10/2017	Method Overriding, Dynamic Method Dispatch	"	
22	9/3	6/10/2017	Using Abstract Classes, Using final with Inheritance (Already discussed in lecture 19), and The Object Class.	,,	Assignm ent- III
23	10/3	7/10/2017	Tutorials and Discussion Question Bank Creation and Discussions	,,	
24	1/4	10/10/2017	Module 4 Exception Handling: Exception- Handling Fundamentals, Exception	"	

			Types,			
25	2/4	12/10/2017	Uncaught Exceptions, Using try and catch, Multiple catch Clauses,	,,		
26	3/4	13/10/2017	Nested try Statements, finally,	"		
27	4/4	14/10/2017	throw, throws, Java's Built-in Exceptions	,,		
28	5/4	17/10/2017	Creating Your Own Exception Subclasses	,,		
29	6/4	24/10/2017	Chained Exceptions, Using Exceptions.	,,		
30	7/4	25/10/2017	Creating Your Own Exception	67		
31	8/4	26/10/2017	Packages and Interfaces: Packages, Access Protection, Importing Packages, Interfaces	,,	Assignm ent- IV	
32	9/4	28/10/2017	Tutorials and Discussion Question Bank Creation and Discussions	,,		
33	1/5	31/10/2017	Module5 I/O Basics: Reading Console Input, Writing Console Output, The PrintWriter Class, Reading and Writing Files	"		
34	2/5	2/11/2017	Applet Fundamentals	,,		
35	3/5	3/11/2017	The transient and volatile Modifiers, Using instanceof, strictfp, Native Methods,	,,		
36	4/5	9/11/2017	Using assert, Static Import, Enumerations, Type Wrappers, Invoking Overloaded Constructors Through this()	,,		
37	5/5	13/11/2017	String Handling : The String Constructors, String Length, Special String Operations, Character Extraction, String Comparison, Searching Strings, Modifying a String, Data Conversion Using valueOf(), Changing the Case of Characters Within a String,	,,	Assignm ent- V	
38	6/5	14/11/2017	Additional String Methods ,StringBuffer, StringBuilder	"		

39	7/5	15/11/2017	Tutorials and Discussion Question Bank Creation and Discussions	د،	
40		14/11/2017	Previous Year Question paper Discussions	"	

Syllabus for Internal Assessment Tests ${\rm (IAT)}^{\ast}$

Sessional #	Syllabus
T1	Class # 01 - 16
T2	Class # 16 –35
Т3	Class # 35- – 40

*: See calendar of events for the schedules of IATs.

Literature:

Rook Type	Codo	Author & Titlo	Publication info		
вооктуре	Code	Author & Title	Edition & Publisher	ISBN #	
Text Book	TB1	Herbert Schildt- Java The Complete Reference	7th Edition, Tata McGraw Hill, 2007.		
References	RB1	Mahesh Bhave and Sunil Patekar- "Programming with Java"	First Edition, Pearson Education,2008.	9788131720806	
References	RB2	Rajkumar Buyya,S Thamarasi selvi, xingchen chu, Object oriented Programming with java	Tata McGraw Hill education private limited.		
References	RB3	E Balagurusamy, Programming with Java A primer	Tata McGraw Hill companies.		
References	RB4	. Anita Seth and B L Juneja, JAVA One step Ahead	Oxford University Press, 2017.		

Signature of faculty

Signature of HOD

Signature of Principal

CMR INSTITUTE OF TECHNOLOGY

Session wise – Course Plan



Department of Telecommunication

SEMESTER	: B.Tech 5 th Sem	NAME OF THE FACULTY	: Laxmi Sharma
BRANCH	: TCE	DATE OF COMMENCEMENT	: 17.08.2017
SUBJECT	: AR	DATE OF CLOSING	: 25.11.2017
SUBJECT CO	DDE :	CLASS STRENGTH	: 77
NO OF HRS/	WK : 4	TOTAL HRS	:

Sessi on No	Chapter no (No of hrs planed for the chapter)	DATE	Topics planned for the session	Teaching Aids	Assignme nts/ Tests planned for the chapter	Topics covered As per plan
1	1/1	17.08.2017	Module-1 INTRODUCTION	Board, chalk, duster		
2	2/1	18.08.2017	REASONS FOR AUTOMATION	**		
3	3/1	19.08.2017	AUTOMATION,HISTORY OF AUTOMATION	,,		
4	4/1	22.08.2017	REASONS FOR AUTOMATION,DISADVANTAGE	,,		
5	5/1	24.08.2017	AUTOAMTION SYSTEMS ,TYPES OF AUTOMATION- FIXED,PROGRAMMABLE AND FLEXIBLE AUTOMATION	"		
6	6/1	28.08.2017	AUTOMATION STRATEGIES	"	Assignme nt- I	
7	7/1	29.08.2017	AUTOMATED MANUFACTURING SYSTEMS	,,		
8	8/1	31.08.2017	COMPONENTS,CLASSIFICATIO N,OVERVIEW OF MANUFACTURING, FMS:TYPES OF FMS, APPLICATIONS & BENIFITS	Board, chalk, duster		

9	1/2	4.09.2017	MODULE-2 ROBOTICS DEFINITION,HISTORY	"		
10	2/2	4.09.2017	ROBOTICS MARKET, FUTURE PROSPECTS,ANATOMY			
11	3/2	6.09.2017	ROBOT CONFIGURATION, ROBOT MOTIONS,JOINTS			
12	4/2	6.09.2017	WORK VOLUME,ROBOT DRIVE SYSTEM	,,	Assignme nt –III	
13	5/2	11.9.2017	PRECISION OF MOVEMENT- SPATIAL RESOLUTION.ACCURACY	"		
14	6/2	11.09.2017	REPEATABILTIY, END EFFECTORS-TOOLS AND GRIPPERS	"		
15	1/3	13.9.2017	MODULE-3 BASIC CONTROL SYSTEM CONCEPTS, MODELS	Board, chalk, duster		
16	2/3	13.09.2017	TRANSFER FUNCTIONS, BLOCK DIAGRAM	,,		
17	3/3	15.09.2017	CHARACTERISTIC EQUATION	,,	Assignmn t-IV	
18	4/3	15.09.2017	TYPE OF CONTROLLERS-ON- OFF,PROPORTIONAL,INTEGRAL	"		
19	5/3	26.09.2017	DIFFERENTIAL,P-I	,,		
20	6/3	26.09.2017	P-D,P-I-D CONTROLLERS,CONTROL SYSTEM AND ANALYSIS	"		
21	7/3	28.09.2017	ROBOT ACTUATION AND FEEDBACK COMPONENTS	,,		
22	8/3	28.09.2017	POSITION SENSORS- POTENTIOMETERS,RESOLVERS, ENCODERS,VELOCITY SENSORS	"		
23	9/3	4.10.2017	ACTUATORS,PNEUMATIC AND HYDRAULIC ACTUATORS,ELECTRIC MOTORS,STEPPER MOTORS	,,	Assignme nt -V	
24	10/3	7.10.2017	SERVOMOTORS,POWER TRANSMISSION SYSTEM	Board, chalk, duster		

25	1/4	7.10.2017	MODULE-4 ROBOT SENSORS AND MACHINEVISION SYSTEM -SENSORS IN ROBOT	,,	
26	2/4	10.10.2017	TACTILE SENSOR,PROXIMITY AND RANGE SENSOR	,,	
27	3/4	10.10.2017	USE OF SENSORS IN ROBOTICS	,,	
28	4/4	12.10.2017	MACHINE VISION SYSTEM:INTRODUCTION	"	
29	5/4	14.10.2017	SENSING AND DIGITIZING FUNCTIONS IN MACHINE VISION	,,	
30	6/4	17.10.2017	IMAGE PROCESSING AND ANALYSIS	>>	
31	7/4	24.10.2017	TIMING AND VISION SYSTEM	"	
20	1/7	24 10 2017	NODULE 2		
32	1/5	24.10.2017	ROBOTS TECHNOLOGY IN FUTURE -ROBOT INTELLIGENCE	"	
33	2/5	26.10.2017	ADVANCED SENSOR CAPABILITIES	"	
34	3/5	28.10.2017	TELEPRESENCE AND RELATED TECHNOLOGIES	>>	
35	4/5	31.10.2017	MECHANICAL DESIGN FUTURE	>>	
36	5/5	3.11.2017	MOBILITY,LOCOMATION AND NAVIGATION	>>	
37	6/5	3.11.2017	THE UNIVERSAL HAND,SYSTEM INTEGRATION AND NETWORKING	,,	
38	7/5	09.11.2017	AI- GOALS OF AI RESEAERCH,AI TECHNIQUE	,,	
39	8/5	13.11.2017	KNOWLEDGE REPRESENTATION,PROBLEM SOLVING	,,	
40	9/5	13.11.2017	LISP PROGRAMMING	"	
41	10/5		AI & ROBOTICS	,,	
42	11/5	15.11.2017	LISP IN THE FACTORY	,,	