Subject :- MGMT

CMR INSTITUTE

OF TECHNOLOGY

Session wise – Course Plan

Department of Electrical And Electronics Engg

SEMESTER   : V   NAME OF THE FACULTY   : Mr. Anup H A

BRANCH   : EEE   DATE OF COMMENCEMENT : 28.08.2016

SUBJECT   : M&E   DATE OF CLOSING   :   21.11.2016

SUBJECT CODE: 10AL51   CLASS STRENGTH   :   137

NO OF HRS/WK   :5   TOTAL HOURS   :   58

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	1/10	28-07-2016	Introduction to Management and Nature and Characteristics of Management	Board & chalk		
2	1/10	02-08-2016	Scope of Management and functional areas of	,,		

			management.			
3	1/10	04-08-2016	Functional areas of Management and Management as an art, science or profession.	,,		
4	1/10	05-08-2016	Administration and Management and Managerial effectiveness	,,		
5	1/10	06-08-2016	Roles of Manager and Evolution of Management thought	,,		
6	1/10	09-08-2016	Evolution of Management thought- Early Management Approach (Scientific Management and Administrative Management)	,,		
7	1/10	12-08-2016	Evolution of Management thought- Early Management Approach (Administrative Management)	,,		
8	1/10	12-08-2016	Evolution of Management thought- Early Management Approach (Bureaucracy)	,,		
9	1/10	16-08-2016	Evolution of Management thought- Modern Approach	,,	Assignme nt- I	
10	1/10	16-08-2016	Evolution of Management thought- Neo-Classical Approach.	,,		
			UNIT 2 PLANNING			

11	2/8	18-08-2016	Planning and necessity of Planning	Board & chalk		
12	2/8	20-08-2016	Necessity of Planning and Purpose of Planning	,,		
13	2/8	22-08-2016	Purpose of Planning	,,		
14	2/8	23-08-2016	Types of Plans- Vision, Mission and Objectives	,,		
15	2/8	25-08-2016	Types of Plans- Objectives and Strategic and Tactical Planning	,,		
16	2/8	27-08-2016	Types of Plans- Policy, Procedure and Rules; Hierarchy of Planning	,,		
17	2/8	29-08-2016	Steps in Planning and Planning premises	Seminar by students	Assignment 2	
18	2/8	29-08-2016	Decision Making	,,		
UNIT 5 ENTREPRENEURSHIP						
18	5/6	10-09-2016	Introduction to entrepreneurship			
19	5/6	10-09-2016	Entrepreneurship- Meaning and evolution of concept and Characteristics of Entrepreneur	PPT		
20	5/6	13-09-2016	Qualities of Entrepreneur and Functions of an entrepreneur	,,		
21	5/6	14-09-2016	Types of Entrepreneur and Intrapreneur	,,		
22	5/6	15-09-2016	Concept and Evolution of Entrepreneurship;	,,		

			Development of Entrepreneurship			
23	5/6	16-09-2016	Stages in Entrepreneurial Process and Role of Entrepreneurs in economic development	,,	Assignme nt 5	
24	5/6	19-09-2016	Entrepreneurship in India and Barriers to Entrepreneurship	,,		
25	5/6	19-09-2016	Revision of entrepreneurship			
UNIT 8 PREPARATION OF PROJECT						
26	8/7	21-09-2016	Introduction to project planning	PPT		
27	8/7	21-09-2016	Meaning of Project, Project Identification & Project Selection	,,		
28	8/7	22-09-2016	Project report, contents of project report and Project Formulation	,,		
29	8/7	23-09-2016	Guidelines by Planning Commission.	,,		
30	8/7	26-09-2016	Network Analysis- PERT and CPM	,,		
31	8/7	27-09-2016	Errors of Project Report and Project Appraisal	,,	Assignme nt-8	
32	8/7	28-09-2016	Identification of Business opportunities	,,		
33	8/7	29-09-2016	Market Feasibility Study and Technical Feasibility Study Financial Feasibility Study and Social Feasibility Study	Seminar by students		

34	8/7	29-09-2016	Revision of project planning and preparation			
UNIT 3 ORGANIZATION AND STAFFING						
35	3/8	05-10-2016	Introduction to organization & Staffing			
36	3/8	05-10-2016	Nature and Purpose of Organization and Principles of Organization	PPT		
37	3/8	06-10-2016	Types of Organization	,,		
38	3/8	07-10-2016	Departmentation	,,	Assignme nt 3	
39	3/8	08-10-2016	Centralization vs. Decentralization	,,		
40	3/8	13-10-2016	Span of Control and MBO	,,		
41	3/8	17-10-2016	MBO, MBE and Staffing	,,		
42	3/8	18-10-2016	Selection	,,		
43	3/8	19-10-2016	Selection and Recruitment	,,		
44	3/8	19-10-2016	Revision of organization and staffing			
UNIT 6 SMALL SCALE INDUSTRIES						
45		21-10-2016	Introduction and significance of SSI			
45		21-10-2016	Definition, Characteristics and Need and Rationale	PPT		
46		27-10-2016	Objectives, Scope, Role of SSI's and Advantages	,,		

		28-10-2016	Steps to Start SSI and Government Policies- Different Policies- Overview of Each IPR.	,,	Assignme nt 6	
47						
48		02-11-2016	Government Support and Impact of LPG on SSIs	,,		
49		03-11-2016	GATT and WTO Ancillary Industries and Tiny Industries.			
50		03-11-2016	Discussion of SSI in and around Bangalore			
UNIT 7 INSTITUTIONAL SUPPORT						
51	7/2	04-11-2016		Seminar by students	Assignme nt 7	
52	7/2	05-11-2016		,,		
UNIT 4 DIRECTING AND CONTROLLING						
53	4/3	07-11-2016	Meaning and nature of directing and leadership	PPT	Assignme nt 8	
54	4/3	07-11-2016	Leadership styles and Motivation	,,		
55	4/3	08-11-2016	Motivation and Communication; co-ordination	,,		
56		08-11-2016	G D old question papers			
57		09-11-2016	G D old question papers			
58		09-11-2016	G D old question papers			

Signature of faculty   Signature of HOD   Signature of Principal

Subject :- SS

CMR INSTITUTE
OF TECHNOLOGY

Session wise – Course Plan

Department of Telecommunication

SEMESTER :V NAME OF THE FACULT : Mrs.Alka Raj
BRANCH :EEE DATE OF COMMENCEMENT :25.07.2016
SUBJECT :Signals& Systems DATE OF CLOSING :09.11.2016
SUBJECT CODE :10EE52 CLASS STRENGTH :67
NO OF HRS/WK :6 TOTAL HRS :76

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	1/0	25-07-2016	Discussion on Prerequisites: complex number, Euler identity, partial fraction, summation problems	Board,chalk, duster	A1	
2	1/1	26-07-2016	Introduction: Signals, Classification of signals: cont. and discrete time signals, Elementary Continuous time signals	,,	A2	
3	2/1	27-07-2016	Elementary Discrete time signals	,,		
4	3/1	28-07-2016	Basic operations on signals –Amplitude Scaling, Addition - Problems	,,		
5	4/1	28-07-2016	Basic operations on signals – Multiplication, Differentiation, Integration –Problems	,,		
6	5/1	29-07-2016	Basic operations on signals –Time Scaling, Time shifting, Reflection–Problems	,,		
7	6/1	30-07-2016	Basic operations on signals –Precedence rule for time shifting and time scaling–Problems	,,		

8	7/1	1-08-2016	Classification of signals: Even and Odd signals– Problems	,,		
9	8/1	2-08-2016	Classification of signals: Periodic and Non periodic signal–Problems	,,		
10	9/1	3-08-2016	System –Properties of System: Stability, Memory, Causality, Invertibility.	,,		
11	10/1	4-08-2016	Properties of System: Time Invariance, Linearity	,,		
12	1/2 and 3	4-08-2016	LTI System, Convolution Sum - Properties	,,	A3	
13	2/2 and 3	6-08-2016	Convolution sum : Problems	,,		
14	3/2 and 3	8-08-2016	Convolution sum : Problems	,,		
15	4/2 and 3	9-08-2016	Convolution sum : Problems	,,		
16	5/2 and 3	10-08-2016	Convolution integral- Properties	,,		
17	6/2 and 3	11-08-2016	Convolution integral: Problems	,,		
18	7/2 and 3	11-08-2016	Convolution integral: Problems	,,		
19	8/2 and 3	16-08-2016	Convolution integral: Problems	,,		
20	9/2 and 3	17-08-2016	Impulse Response- Properties	,,		
21	10/2 and 3	18-08-2016	Stability and causality of the system for the impulse response, Step Response	,,		
22	11/2 and 3	19-08-2016	Solution of differential equation	,,	A4	
23	12/2 and 3	20-08-2016	Solution of differential equation	,,		
24	13/2 and 3	20-08-2016	Solution of difference equation	,,		

25	14/2 and 3	23-08-2016	Solution of difference equation	,,		
26	15/2 and 3	24-08-2016	Block diagram representation	,,		
27	16/2 and 3	25-08-2016	Block diagram representation	,,		
28	1/4	26-08-2016	Fourier representation: Introduction-Fourier series	,,	A5	
29	2/4	27-08-2016	Fourier series-Problems	,,		
30	3/4	27-08-2016	Properties of Fourier series -Problems	,,		
31	4/4	29-08-2016	Properties of Fourier series -Problems	,,		
32	5/4	30-08-2016	Properties of Fourier series -Problems	,,		
33	6/4	31-08-2016	DTFS-Introduction	,,		
34	7/4	1-09-2016	DTFS-Problems	,,		
35	8/4	2-09-2016	Properties of DTFS-Problems	,,		
36	9/4	9-09-2016	Properties of DTFS-Problems	,,		
37	10/4	9-09-2016	Properties of DTFS-Problems	,,		
38	1/5	10-09-2016	Fourier Transform-Problems	,,	A6	
39	2/5	13-09-2016	Fourier Transform-Problems	,,		
40	3/5	14-09-2016	Properties of Fourier Transform -Problems	,,		
41	4/5	15-09-2016	Properties of Fourier Transform -Problems	,,		

42	5/5	16-09-2016	Properties of Fourier Transform -Problems	,,		
43	6/5	17-09-2016	Frequency response of LTI system	,,		
44	7/5	17-09-2016	Solution of differential equation	,,		
45	1/6	20-09-2016	DTFT - Problems	,,	A7	
46	2/6	21-09-2016	DTFT -Problems	,,		
47	3/6	22-09-2016	Properties of DTFT -Problems	,,		
48	4/6	23-09-2016	Properties of DTFT -Problems	,,		
49	5/6	24-09-2016	Properties of DTFT -Problems	,,		
50	6/6	24-09-2016	Frequency response of LTI system	,,		
51	7/6	27-09-2016	Solution of difference equation	,,		
52	1/7 and 8	28-09-2016	Z Transform – Introduction-Problems	,,	A8	
53	2/7 and 8	29-09-2016	Properties of ROC	,,		
54	3/7 and 8	3-10-2016	Z Transform –Problems	,,		
55	4/7 and 8	4-10-2016	Z Transform -Properties	,,		
56	5/7 and 8	4-10-2016	Z Transform -Properties	,,		
57	6/7 and 8	6-10-2016	Z Transform -Properties	,,		
58	7/7 and 8	7-10-2016	Inverse Z-Transform–Problems	,,	A9	

59	8/7 and 8	8-10-2016	Inverse Z-Transform–Problems	,,		
60	9/7 and 8	13-10-2016	Inverse Z-Transform–Problems	,,		
61	10/7 and 8	14-10-2016	Analysis of LTI systems, Transfer function	,,		
62	11/7 and 8	14-10-2016	Stability and Causality	,,		
63	12/7 and 8	18-10-2016	Unilateral Z-Transform	,,		
64	13/7 and 8	19-10-2016	Solution of difference equation	,,		
65		20-10-2016	Revision-Unit1	,,		
66		21-10-2016	Revision-Unit2	,,		
67		22-10-2016	Revision-Unit3	,,		
68		22-10-2016	Revision-Unit4	,,		
69		28-10-2016	Revision-Unit5	,,		
70		2-11-2016	Revision-Unit6	,,		
71		3-11-2016	Revision-Unit7	,,		
72		4-11-2016	Revision-Unit8	,,		
73		5-11-2016	Revision	,,		
74		5-11-2016	Revision	"		
75		8-11-2016	Test – Part A	"		
76		9-11-2016	Test – Part B	"		

Signature of faculty   Signature of HOD   Signature of Principal

Subject :- EPTD

CMR INSTITUTE

OF TECHNOLOGY

Session wise – Course Plan

Department of Electrical And Electronics Engg

SEMESTER   : V   NAME   : Ms. T Aruna Kumari

BRANCH   : EEE   DATE OF COMMENCEMENT : 28.08.2016

SUBJECT   : T & D   DATE OF CLOSING   : 21.11.2016

SUBJECT CODE : 10EE53   CLASS STRENGTH   : 60

NO OF HRS/WK : 5   TOTAL HOURS   : 60

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	1/4	1/8/2016	UNIT - 1 TYPICAL TRANSMISSION & DISTRIBUTION SYSTEMS SCHEME	Board & chalk	Assignment- I	
2	2/4	2/8/2016	General layout of power system, Standard voltages for	,,		

			transmission.			
3	3/4	3/8/2016	Advantages of high voltage transmission.	,,		
4	4/4	5/8/2016	Transmission line efficiency and line drop. Feeders, distributors & service mains.	,,		
5	1/7	6/8/2016	UNIT - 2OVERHEAD TRANSMISSION LINES- Types of supporting structures and line conductors used.	,,	Assignm ent -II	
6	2/7	8/8/2016	Sag calculation- supports at same level, numerical	,,		
7	3/7	9/8/2016	Sag calculation- supports at at different levels, numerical	,,		
8	4/7	10/8/2016	Effect of wind and ice, Sag at erection. Numerical.	Board, chalk, duster		
9	5/7	11/8/2016	Stringing chart and sag templates.	,,		
10	6/7	12/8/2016	Line vibrators. Problem solving.	,,		
11	7/7	16/8/2016	Numerical on unit II	,,		
12	1/7	17/8/2016	**UNIT – 3** **INSULATORS**- Introduction, materials used, types.	,,	Assignm ent -III	
13	2/7	18/8/2016	Potential distribution over a string of suspension insulators.	,,		
14	3/7	19/8/2016	String efficiency & methods of increasing strings efficiency,	,,		
15	4/7	20/8/2016	Grading rings and arcing horns.Testing of insulators.			
16	5/7	22/8/2016	Numericals on unit III			

17	**6/7**	23/8/2016	Numericals on unit III			
18	7/7	24/8/2016	Numericals on unit III	,,		
19	1/9	25/8/2016	UNIT - 4 (A)CORONA- Phenomena,	,,	Assignm ent –IV	
20	2/9	26/8/2016	Disruptive and visual critical voltages. Numericals.	,,		
21	3/9	27/8/2016	Corona power loss. Numericals.	,,		
22	4/9	30/8/2016	Advantages and disadvantages of corona.	,,		
23	5/9		(B)UNDERGROUND CABLES- Types, material used.			
24	6/9	1/9/2016	Insulation resistance, thermal rating of cables.	Board, chalk, duster		
25	7/9	9/9/2016	Charging current, grading of cables, capacitance grading.	,,		
26	8/9	10/9/2016	Inter sheath grading.	,,		
27	9/9	13/9/2016	Testing of cables.	,,		
28	1/16	14/9/2016	UNIT – 5 and 6 Line parameters:	,,	Assignm nt –V	
29	2/16	16/9/2016	calculation of inductance of single phase line,	,,		
30	3/16	19/9/2016	Flux linkages of one conductor in an array. Inductance of	,,		

			composite conductor lines.			
31	4/16	21/9/2016	3phase lines with equilateral spacing.	,,		
32	5/16	23/9/2016	3phase lines with unsymmetrical spacing.	,,		
33	6/16	24/9/2016	Double circuit and transposed lines. Inductance of composite conductor lines.	Board, chalk, duster		
34	7/16	26/9/2016	Capacitance- of single-phase line,	,,		
35	8/16	27/9/2016	Potential difference b/w two conductors of a group of charged conductors.	,,	Assignment -VI	
36	9/16	28/9/2016	3phase lines with equilateral spacing, unsymmetrical spacing.	,,		
37	10/16	29/9/2016	Capacitance- of double circuit and transposed lines.	,,		
38	11/16	3/10/2016	Capacitance of composite conductor lines.	,,		
39	12/16	4/10/2016	Problems on unit V & VI	,,		
40	13/16	5/10/2016	Problems on unit V & VI	,,		
41	14/16	6/10/2016	Problems on unit V & VI	,,		
42	15/16	7/10/2016	Problems on unit V & VI	,,		
43	16/16	8/10/2016	Problems on unit V & VI	,,		

44	1/6	13/10/2016	UNIT - 7 Performance of power transmission lines- Short transmission lines	,,	Assignment -VII	
45	2/6	17/10/2016	T, end condenser and π models.	,,		
46	3/6	18/10/2016	, medium transmission lines-nominal	,,		
47	4/6	19/10/2016	Long transmission lines, ABCD constants of transmission lines.	,,		
48	5/6	21/10/2016	Ferranti effect, line regulation	,,		
49	6/6	22/10/2016	Numericals on unit VII	Board, chalk, duster		
50	1/11	27/10/2016	UNIT - 8 Distribution- Requirements of power distribution.	,,	Assignment -VIII	
51	2/11	27/10/2016	radial & ring main systems, numerical.	,,		
52	3/11	28/10/2016	ac distribution: calculation for concentrated loads	,,		
53	4/11	28/10/2016	ac distribution: calculation for and uniform loading.	PPT		
54	5/11	2/11/2016	dc distribution: calculation for concentrated loads	,,		
55	6/11	3/11/2016	dc distribution: calculation for and uniform loading.	Board/Chalk		
56	7/11	4/11/2016	Numericals on unit VIII	,,		
57	8/11	5/11/2016	Numericals on unit VIII	PPT/Boar		

				d/Chalk,,		
58	9/11	5/11/2016	Revision	,,		
59	10/11	7/11/2016	Revision	,,		
60	11/11	7/11/2016	Revision	,,		

Signature of faculty   Signature of HOD   Signature of Principal

Subject :- DSM

CMR INSTITUTE

OF TECHNOLOGY

CMR

Session wise – Course Plan

Department of Electrical And Electronics Engg

SEMESTER   : V   NAME OF THE FACULTY   : Mr Sudhakar Vitta

BRANCH   : EEE   DATE of Commencement : 28.08.2016

SUBJECT   : DCM & SM   DATE OF CLOSING   : 21.11.2016

SUBJECT CODE   : 10EE54   CLASS STRENGTH   : 69

NO OF HRS/WK : 5   TOTAL HOURS   : 60

Session No	Session no within the planned unit hours	DATE	Topics planned for the session	Teaching Aids	Assignments / Tests planned for the chapter	Topics covered As per plan
1	**Unit-1** 1/10	28 Jul 2016		Board & Chalk	Prerequisite	

			Introduction to Electrical Machines		Assignment	
2	2/10	29 Jul 2016	Basics of DC Machines	Board & Chalk		
3	3/10	01 Aug 2016	Construction of DC Machines	Board & Chalk		
4	4/10	03 Aug 2016	EMF equation. Armature windings.	Board & Chalk		
5	5/10	04 Aug 2016	Lap winding & Equalizer rings	Board & Chalk		
6	6/10	05 Aug 2016	Wave windings	Board & Chalk		
7	7/10	06 Aug 2016	Armature reaction & Compensating windings	Board & Chalk		
8	8/10	08 Aug 2016	Commutation,types,effects,remedies & interpoles	Board & Chalk		
9	9/10	10 Aug 2016	Classification of DC machines	Board & Chalk		
10	10/10	10 Aug 2016	Characteristics of DC Generators	Board & Chalk	Assignment-1	
11	**Unit-2** 1/8	11 Aug 2016	DC Motors:Classification, Back EMF and its significance, Torque Equation and types of characteristics	Board & Chalk		
12	2/8	12Aug 2016	Characteristics of DC Motors	Board & Chalk		
13	3/8	16 Aug 2016	Problems & Solutions	Board & Chalk		

14	4/8	17 Aug 2016	Speed Control of DC Motors	Board & Chalk		
15	5/8	19 Aug 2016	Speed control of DC Motors (Series & Compound)	Board & Chalk		
16	6/8	20 Aug 2016	DC Motor Starting, Starters, Starting Resistance Calculations	Board & Chalk		
17	7/8	22 Aug 2016	Ward-Leonard Speed Control. Problems & Solutions	Board & Chalk		
18	8/8	23 Aug 2016	Application of DC shunt, series and compound motors. Brush-less DC motors & their applications .	Board & Chalk	Assignment - II	
19	**Units-3&4** 1 /7	24 Aug 2016	Losses in DC Machines, efficiency, Condition for maximum efficiency	Board & Chalk		
20	2 /7	24 Aug 2016	Swinburne's test. Problems & Solutions	Board & Chalk		
21	3 /7	26 Aug 2016	Direct,indirect Regenerative tests.Brake test.	Board & Chalk	Assignment –III	
22	4 /7	27 Aug 2016	Hopkinson's test on DC Shunt Motor. Problem Solving	Board & Chalk		
23	5 /7	29 Aug 2016	Retardation Test.Problem Solving	Board & Chalk		
24	6 /7	30 Aug 2016	Field's test.Problem Solving	Board & Chalk		
25	7 /7	31 Aug 2016	Merits & demerits of tests.Power flow diagrams	Board & Chalk	Assignment	

					−IV	
26	**Unit-5** 1/7	09 Sep 2016	Basic principle of operation	Board & Chalk		
27	2/7	10 Sep 2016	Construction of salient & non-salient pole synchronous machines	Board & Chalk		
28	3/7	13 Sep 2016	Generated EMF	Board & Chalk		
29	4/7	14 Sep 2016	Effect of distribution and chording of winding	Board & Chalk		
30	5/7	16 Sep 2016	Harmonics-causes, reduction and elimination	Board & Chalk		
31	6/7	17 Sep 2016	Armature reaction, synchronous reactance, leakage reactance	Board & Chalk		
32	7/7	19 Sep 2016	Phasor diagram of non salient type alternator.	Board & Chalk	Assignment - V	
33	**Unit-6** 1/11	20 Sep 2016	Voltage regulation by EMF method	Board & Chalk		
34	2/11	21 Sep 2016	Voltage regulation by MMF method	Board & Chalk		
35	3/11	23 Sep 2016	Voltage regulation by ZPF method	Board & Chalk		
36	4/11	24Sep 2016	Voltage regulation by ASA method	Board & Chalk		
37	5/11	26 Sep 2016	Short circuit ratio and its importance	Board & Chalk		

38	6/11	27 Sep 2016	Two reaction theory	Board & Chalk		
39	7/11	28 Sep 2016	Direct and quadrature axis reactances	Board & Chalk		
40	8/11	03 Oct 2016	Phasor diagram	Board & Chalk		
41	9/11	04 Oct 2016	Slip test and regulation.	Board & Chalk		
42	10/11	05 Oct 2016	Problem Solving	Board & Chalk		
43	11/11	06 Oct 2016	Problem Solving	Board & Chalk	Assign ment - VI	
44	Unit-7 1/7	07 Oct 2016	Synchronizing to infinite bus bars	Board & Chalk		
45	2/7	13 Oct 2016	Parallel operation of alternators	Board & Chalk		
46	3/7	14 Oct 2016	Operating characteristics	Board & Chalk		
47	4/7	17 Oct 2016	Power angle characteristics excluding armature resistance	Board & Chalk		
48	5/7	18 Oct 2016	Operation for fixed input and variable excitation	Board & Chalk		
49	6/7	19 Oct 2016	Power flow equations including armature resistance	Board & Chalk		
50	7/7	21Oct 2016	Capability curves of synchronous generators.	Board & Chalk	Assign ment -	

					VII	
51	**Unit-8** 1/10	22 Oct 2016	Principle of operation	Board & Chalk		
52	2/10	27 Oct 2016	Phasor diagrams	Board & Chalk		
53	3/10	28 Oct 2016	Torque and torque angle	Board & Chalk		
54	4/10	02 Nov 2016	Blondel diagram	Board & Chalk		
55	5/10	03Nov 2016	Effect of change in load	Board & Chalk		
56	6/10	04 Nov 2016	Effect of change in excitation	Board & Chalk		
57	7/10	05 Nov 2016	V and inverted V curves	Board & Chalk		
58	8/10	07 Nov 2016	Synchronous condenser	Board & Chalk	Assignment - VIII	
59	9/10	08Nov 2016	Hunting and Damping	Board & Chalk		
60	10/10	09 Nov 2016	Methods of starting synchronous motors.	Board & Chalk		

Signature of faculty   Signature of HOD   Signature of Principal

Subject :- LIC

CMR INSTITUTE

OF TECHNOLOGY

Session wise – Course Plan

Department of Electrical and Electronics

SEMESTER   :V   NAME OF THE FACULTY   : Ms.Anju Das

 BRANCH   : EEE   DATE OF COMMENCEMENT : 29.07.2016

 SUBJECT   : LIC   DATE OF CLOSING   : 19.11.2016

 SUBJECT CODE: 10EE56   CLASS STRENGTH   : 69+66

 NO OF HRS/WK : 5   TOTAL HRS   : 60

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**	29.07.2016	Operational Amplifier Fundamentals: circuit, CMRR and PSRR, Slew rate	Black board and chalk	**Prerequisite Assignment 1**	
2	**2/1**	01.08.2016				

			Op-Amp parameters – Input and output voltage, , offset voltages and currents, Design problems on Input and output voltage			
3	**3/1**	02.08.2016	Capacitor coupled voltage follower			
4	**4/1**	3.08.2016	High Zin capacitor coupled voltage follower		**Assignment 2**	
5	**5/1**	05.08.2016	Capacitor coupled non-inverting amplifier			
6	**6/1**	06.08.2016	High Zin capacitor coupled non-inverting amplifier			
7	**7/1**	08.08.2016	Capacitor coupled inverting amplifier, setting upper cut off frequency			
8	**8/1**	09.08.2016	Capacitor coupled difference amplifier			
9	**9/1**	10.08.2016	Use of single polarity supply			
10	**1/2**	12.08.2016	Op amp circuits stability			
11	**2/2**	16.08.2016	Frequency and phase response			
12	**3/2**	17.08.2016	Frequency compensating methods			
13	**4/2**	18.08.2016	Manufacturer's recommended compensation		**Assignment 3**	
14	**5/2**	19.08.2016	Op-amp circuit band width			
16	**6/2**	22.08.2016	Slew rate effects, stray capacitance effects load capacitance effects			
16	**7/2**	23.08.2016	Zin mode compensation			
17	**8/2**	24.08.2016	circuit stability precautions			
18	**1/3**	25.08.2016	Precision half wave & full wave rectifiers			

19	**2/3**	26.08.2016	Precision half wave & full wave rectifiers(cont)			
20	**3/3**	29.08.2016	Limiting circuits			
21	**4/3**	30.08.2016	clamping circuits		**Assignment 4**	
22	**5/3**	31.08.2016	Peak detectors			
23	**6/3**	01.09.2016	Sample &hold circuit			
24	**7/3**	02.09.2016	DAC			
25	**8/3**	09.09.2016	ADC (Flash and successive approximations)			
26	**1/4**	10.09.2016	Op-amps in switching circuits			
27	**2/4**	13.09.2016	Op-amps in switching circuits			
28	**3/4**	14.09.2016	Zero crossing detectors			
29	**4/4**	15.09.2016	Inverting Schmitt trigger circuits		**Assignment 5**	
30	**5/4**	16.09.2016	Non-inverting Schmitt circuits			
31	**6/4**	19.09.2016	Astable multivibrator			
32	**7/4**	20.09.2016	Monostable multivibrator.			
33	**8/4**	21.09.2016	Monostable multivibrator			
34	**1/5**	22.09.2016	Triangular wave generator			
35	**2/5**	23.09.2016	Rectangular wave generator			
36	**3/5**	26.09.2016	Waveform generator design			
37	**4/5**	27.09.2016	Phase shift oscillator		**Assignment 6**	
38	**5/5**	28.09.2016	Oscillator amplitude stabilization			

39	**6/5**	29.09.2016	Wein bridge oscillator			
40	**7/5**	03.10.2016	Signal generators			
41	**8/5**	05.10.2016	Output controllers			
42	**1/6**	06.10.2016	First and second order high pass			
43	**2/6**	07.10.2016	Low pass filter			
44	**3/6**	08.10.2016	Low pass filter			
45	**4/6**	13.10.2016	Band pass filter		**Assignment 7**	
46	**5/6**	17.10.2016	Band pass filter (cont)			
47	**6/6**	18.10.2016	Band stop filter			
48	**7/6**	19.10.2016	Problems on all filters			
49	**1/7**	20.10.2016	Universal active filter			
50	**2/7**	21.10.2016	Universal active filter(cont)			
51	**3/7**	22.10.2016	switched capacitor filter			
52	**4/7**	27.10.2016	phase locked loops		**Assignment 8**	
53	**5/7**	28.10.2016	phase locked loops(cont)			
54	**6/7**	02.11.2016	Power amplifiers			
55	**1/8**	03.11.2016	Voltage regulators basics			
56	**2/8**	04.11.2016	voltage follower regulator			
57	**3/8**	07.11.2016	adjustable output regulator			
58	**4/8**	08.11.2016	adjustable output regulator(cont)		**Assignment 9**	
59	**5/8**	09.11.2016	precision voltage regulators, **Integrated circuit voltage regulators**			

60	**6/8**		Revision			

Signature of faculty   Signature of HOD   Signature of Principal

Subject :- MCT

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Session wise – Course Plan

Department of Electrical and Electronics Engineering

SEMESTER : V	*NAME OF THE FACULTY* : Dr. MANAVAALAN G
BRANCH : EEE	*DATE OF COMMENCEMENT* : 28.08.2016
SUBJECT : MODERN CONTROL THEORY	*DATE OF CLOSING* : 21.11.2016
SUBJECT CODE : 10EE55	*CLASS STRENGTH* : 135
NO OF HRS/WK : 5	*TOTAL HOURS* : 56

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	1/9	29.07.2016	Course outline and motivation for the course MCT	Chalk & Talk	Prerequisite Assignment	
2	1/9	01.08.2016	Revision of Laplace transforms and problems solved based on LT	,,		
3	1/9	01.08.2016		,,		
4	1/9	02.08.2016	Introduction to the concept of state, state variables and state model.	,,		
5	1/9	02.08.2016		,,		
6	1/9	03.08.2016	State space modeling of linear systems	,,	Assignment-I	
7	1/9	03.08.2016		,,		
8	1/9	08.08.2016	Concepts of linearization, and linearization of state equations	,,		
9	1/9	08.08.2016		,,		
10	2/8	09.08.2016	SSM of - circuits and dc motor control problems.	,,		
11	2/8	09.08.2016		,,		
12	2/8	10.08.2016	SSM - Controllable canonical form	,,		
13	2/8	10.08.2016		,,		
14	2/8	17.08.2016	TF to SSM in observable canonical form/II companion form.	,,	Assignment –II	
15	2/8	17.08.2016		,,		
16	2/8	18.08.2016	TF to SSM in diagonal/Jordan canonical form.	,,		
17	2/8	18.08.2016		,,		
18	3/8	19.08.2016	Implementation of ODE using analog components. Discretization of continuous SSM.	,,		
19	3/8	19.08.2016		,,		
20	3/8	24.08.2016	Derivation of TF from SSM.	,,		
21	3/8	24.08.2016		,,		
22	3/8	25.08.2016	Eigen values, Eigen vectors and	Chalk &	Assignment	

23	3/8	25.08.2016	generalized Eigen. Diagonalization of SSM.	Talk	–III	
24	3/8	26.08.2016	Invariance of Eigen values under leaner transformation. Problems solved from VTU QPs.	,,		
25	3/8	26.08.2016		,,		
26	4/14	31.08.2016	Solution of state equations, state transition matrix and its properties.	,,		
27	4/14	31.08.2016		,,		
28	4/14	01.09.2016	Problems solving for response of the SSM using LT and power series method	,,	Assignmnt – IV	
29	4/14	01.09.2016		,,		
30	4/14	02.09.2016	Problems solving for response of the SSM using LT and power series method	,,		
31	4/14	02.09.2016		,,		
32	4/14	14.09.2016	State transition matrix – Cayley-Hamilton Method	,,		
33	4/14	14.09.2016		,,		
34	4/14	15.09.2016	Concept of Controllability and methods of determining the same	,,		
35	4/14	15.09.2016		,,		
36	4/14	16.09.2016	Concept of Observability and methods of determining the same	,,	Assignment -V	
37	4/14	16.09.2016		,,		
38	4/14	21.09.2016	Concept of duality – Controllability and Observability	,,		
39	4/14	21.09.2016		,,		
40	5/12	22.09.2016	Stability analysis in SSM, stability improvement by state feedback	,,		
41	5/12	22.09.2016		,,		
42	5/12	23.09.2016	Necessary and sufficient conditions for arbitrary pole placement.	,,		
43	5/12	23.09.2016		,,		
44	5/12	28.09.2016	State regulator design and problems solving for the same	,,		
45	5/12	28.09.2016		,,		
46	5/12	29.09.2016	State regulator design with integrator and problems solving for the same	,,	Assignment -VI	
47	5/12	29.09.2016		,,		
48	5/12	03.10.2016	State observer design and problems solving for the same	,,		
49	5/12	03.10.2016		,,		
50	5/12	07.10.2016	Concepts of P, PI, PID controllers	Simulation Chalk & Talk		
51	5/12	07.10.2016				
52	6/4	08.10.2016	Introduction to nonlinear systems and behavior of non-linear systems	Simulation Chalk & Talk		
53	6/4	08.10.2016				
54	6/4	13.10.2016	Common physical non-linearity – saturation, friction, backlash, dead zone, relay, and multi variable non-linearity	Chalk & Talk		
55	6/4	13.10.2016			Assignment -VII	
56	7/6	19.10.2016	Concepts of phase plane method, singular points, stability of nonlinear system, limit cycles.	Simulation Chalk & Talk		
57	7/6	19.10.2016				
58	7/6	20.10.2016	Construction of phase plane by Iscoline method	Chalk & Talk	Assignment -VIII	
59	7/6	20.10.2016				
60	7/6	21.10.2016	Construction of phase plane by Delta method	,,		
61	7/6	21.10.2016		,,		
62	8/6	02.11.2016	Liapunov stability criteria, Liapunov function	,,		
63	8/6	02.11.2016		,,		
64	8/6	03.11.2016	Hrwitz criterion and Liapunov's direct method - linear systems stability analysis	,,	Assignment -IX	
65	8/6	03.11.2016		,,		

66	8/6	04.11.2016	Construction of Liapunov functions for nonlinear system by Krasvkii's method	„		
67	8/6	04.11.2016		„		

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