Subject :- CTPS

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CMR INSTITUTE

OF TECHNOLOGY



Session wise – Course Plan

Department of Electrical And Electronics Engg

SEMESTER : VII	NAME OF THE FACULTY : Ms. Sanitha Michail C
BRANCH : EEE	DATE OF COMMENCEMENT : 28.08.2016
SUBJECT : CTPS	DATE OF CLOSING : 21.11.2016
SUBJECT CODE : 10EE71	CLASS STRENGTH : 120
NO OF HRS/WK : 6	TOTAL HOURS : 62

	Chapter no	DATE	Topics planned for the session	Teaching	Assignme	Topics
Sessi on No	(No of hrs planed for the chapter)			Aids	nts/ Tests planned for the chapter	covere d As per plan
1	1/6	1/8/2016	Introduction, Elementary graph theory –oriented graph	Board & chalk	Prerequisi te Assignme nt	
2	1/6	2/8/2016	tree, co-tree, basic cut-sets, basic loops, Incidence matrices –	"		

			Element-node, Bus incidence			
3	1/6	3/8/2016	Tree-branch path, Basic cut-set, Augmented cut-set, Basic loop and Augmented loop	"		
4	1/6	5/8/2016	Primitive network – impedance form, admittance form	"		
5	1/6	6/8/2016	Formation of network matrices by singular transformations	"	Assignme nt- I	
6	1/6	8/8/2016	Branch impedence matrices & loop incidence matrices	"		
7	1/6	9/8/2016	Problems	"		
8	2/6	10/8/2016	Algorithm for formation of bus impedence matrix	Board, chalk, duster		
9	2/6	11/8/2016	Modification of bus impedence matrix for changes in the network	"		
10	2/6	12/8/2016	Formation of YBUS – by method of inspection	"		
11	2/6	16/8/2016	Formation of YBUS – by method of singular transformation (YBUS = ATyA	"		
12	2/6	17/8/2016	Formation of Bus Impedance Matrix by step by step building algorithm (without mutual coupling elements).	"	Assignme nt -II	
13	2/6	18/8/2016	Transformer off nominal tap setting	"		
14	2/6	19/8/2016	Problems	"		
15	2/6	20/8/2016	Problems			
16	3 &4 /14	22/8/2016	Power flow equations			

17	3 &4 /14	23/8/2016	Classification of buses			
18	3 &4 /14	24/8/2016	Operating constraints	"		
19	3 &4 /14	25/8/2016	Data for load flow	"	Assignme nt –III	
20	3 &4 /14	26/8/2016	Gauss Seidal method	"		
21	3 &4 /14	27/8/2016	Algorithm & flow chart for PQ and PV buses	"		
22	3 &4 /14	30/8/2016	Acceleration for convergence	"		
23	3 &4 /14		Problems on GS method			
24	3 &4 /14	1/9/2016	Problems on GS method	Board,		
				chalk,		
				duster		
25	3 &4 /14	9/9/2016	Algorithm & flow chart for NR method in polar coordinates	"		
26	3 &4 /14	10/9/2016	Problems on NR method	"	Assignmnt –IV	
27	3 &4 /14	13/9/2016	Problems on NR method	"		
28	3 &4 /14	14/9/2016	Algorithm for fast decoupled load flow method	"		
29	3 &4 /14	16/9/2016	Comparison of load flow method	"		
30	3 &4 /14	19/9/2016	Problems on fast decoupled method	"		
31	3 &4 /14	21/9/2016	Problems on fast decoupled method	"		
32	5 & 6/12	23/9/2016	Economic load dispatch - Introduction	"		

33	5 & 6/12	24/9/2016	Economic generation scheduling neglecting losses and generator limits	Board, chalk, duster		
34	5 & 6/12	26/9/2016	Economic generation scheduling including generator limits	,,		
35	5 & 6/12	27/9/2016	Problems on Economic generation scheduling	"	Assignme nt -V	
36	5 & 6/12	28/9/2016	Problems on Economic generation scheduling	"		
37	5 & 6/12	29/9/2016	Economic Dispatch including transmission losses	,,,		
38	5 & 6/12	3/10/2016	Problems on transmission losses	,,		
39	5 & 6/12	4/10/2016	Problems on transmission losses	,,		
40	5 & 6/12	5/10/2016	penalty factor	,,		
41	5 & 6/12	6/10/2016	Problems on penalty factor	,,		
42	5 & 6/12	7/10/2016	Problems on penalty factor	,,		
43	5 & 6/12	8/10/2016	Economic load dispatch - Introduction	,,		
44	5 & 6/12	13/10/2016	Economic generation scheduling neglecting losses and generator limits	,,		
45	5 & 6/12	17/10/2016	Economic generation scheduling including generator limits	,,	Assignme nt -VI	
46	7 & 8 /14	18/10/2016	Numerical solution of Swing Equation	"		
47	7 & 8 /14	19/10/2016	Equal area criteria	,,		
48	7 & 8 /14	21/10/2016	Equal area criteria	"	Assignme nt -VII	

49	7 & 8 /14	22/10/2016	Factors affecting stability	Board,		
				chalk,		
				duster		
50	7 & 8 /14	27/10/2016	Point-by-point method	,,		
51	7 & 8 /14	27/10/2016	Problem on point by point method	"		
52	7 & 8 /14	28/10/2016	Problem on point by point method	,,		
53	7 & 8 /14	28/10/2016	Modified Euler's method	РРТ		
54	7 & 8 /14	2/11/2016	Modified Euler's method	"		
55	7 & 8 /14	3/11/2016	Runge kutta method	Board/Chal k	Assignme nt -VIII	
56	7 & 8 /14	4/11/2016	Runge kutta method	"		
57	7 & 8 /14	5/11/2016	Milne's predictor corrector method,	PPT/Board/ Chalk,,		
58	7 & 8 /14	5/11/2016	Milne's predictor corrector method,	"		
59	7 & 8 /14	7/11/2016	Representation of power systems for tranientstudies	,,		
60	7 & 8 /14	7/11/2016	Network performance equations	"		
61	7 & 8 /14	8/11/2016	Solution techniques with flow charts			
62	7 & 8 /14	8/11/2016	Problems			

Subject :- EPU

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Session wise – Course Plan

Department of Electrical And Electronics Engg

SEMESTER : VII	NAME OF THE FACULTY : Ms. Parvathy Thampi M S
BRANCH : EEE	DATE OF COMMENCEMENT : 28.08.2016
SUBJECT : EPU	DATE OF CLOSING : 21.11.2016
SUBJECT CODE : 10EE72	CLASS STRENGTH : 121
NO OF HRS/WK : 5	TOTAL HOURS : 61

	Chapter no	DATE	Topics planned for the session	Teaching	Assignments/	Topics covered
Session	(No of hrs			Aids	Tests planned	
No	planed for				for the chapter	As per plan
	the chapter)					
1	1/1	1/8/2016			Assignments(1)	
					Due vervieiter	
					Pre -requisites	
2	2/1	2/8/2016	Advantages and methods of			
			Electric Heating			
3	3/1	3/8/2016	Resistance Ovens		Assignment- 2	
4	4/1	5/8/2016	Induction Heating			

8/8/2016 9/8/2016 10/8/2016 11/8/2016 12/8/2016	Arc Furnace		
10/8/2016 11/8/2016 12/8/2016	Electric Welding		
11/8/2016 12/8/2016			
12/8/2016	Resistance and Arc Welding		
	Control Devices	Assignment -3	
16/8/2016	Welding Equipments		
17/8/2016	Problems		
18/8/2016	Problems		
19/8/2016	Fundamental Principles		
20/8/2016	Extraction and Refining of Metals	Assignment -4	
22/8/2016	Electroplating		
23/8/2016	Factors affecting electro Deposition processes		
24/8/2016	Power supply for Electrolytic process		
25/8/2016	Problems		
26/8/2016	Laws of Illumination	Assignment -5	
27/8/2016	Distribution and Control Of Lighting		
30/8/2016	Lighting Calculations		
	Factory Lighting		
			Image: Factory Lighting 1/9/2016

25	7/3,4	9/9/2016	Street Lighting, Different types of lamps		
26	8/3,4	10/9/2016	Incandescent Lamp and its Working		
27	9/3,4	13/9/2016	Fluorescent lamp and its working		
28	10/3,4	14/9/2016	Vapor and CFL and LED lamps and their working		
29	11/3,4	16/9/2016	Comparison among different lamps, Glare and its remedy		
30	1 /5,6,7	19/9/2016	Problems	Assignment -6	
31	2/5,6,7	21/9/2016	Problems		
32	3/5,6,7	23/9/2016	Introduction, Requirements of an ideal traction		
33	4/5,6,7	24/9/2016	System of Traction		
34	5/5,6,7	26/9/2016	Speed Time curve		
35	6/5,6,7	27/9/2016	Tractive Effort / coefficient of Adhesion		
36	7/5,6,7	28/9/2016	Selection of Traction Motors		
37	8/5,6,7	29/9/2016	Methods of Speed Control	Assignment-7	
38	9/5,6,7	3/10/2016	Energy Saving by Series Parallel control		
39	10/5,6,7	4/10/2016	AC Traction Equipment		
40	11/5,6,7	5/10/2016	AC Series Motor		
41	12/5,6,7	6/10/2016	Characteristics		
42	13/5,6,7	7/10/2016	Regenerative Breaking		
43	14/5,6,7	8/10/2016	Linear Induction Motor		
44	15/5,6,7	13/10/2016	LIM and its Use		

45	16/5,6,7	17/10/2016	AC Traction	
46	17/5,6,7	18/10/2016	Diesel Electric Equipment	Assignment - 8,8A
47	18/5,6,7	19/10/2016	Train Lighting Systems	
48	19/5,6,7	21/10/2016	Specific energy	
49	20/5,6,7	22/10/2016	Factors effecting energy consumption	
50	21/5,6,7	27/10/2016	Problems	
51	22/5,6,7	27/10/2016	Problems	
52	23/5,6,7	28/10/2016	Problems	Assignment-9
53	24/5,6,7	28/10/2016	Problems	
54	25/5,6,7	2/11/2016	Problems	
55	1/8	3/11/2016	Configuration and Performance of electric vehicles	
56	2/8	4/11/2016	Traction motor characteristics	
57	3/8	5/11/2016	Tractive effort	
58	4/8	5/11/2016	Tractive effort	
59	5/8	7/11/2016	Transmission requirement	
60	6/8	7/11/2016	Transmission requirement	
61	7/8	8/11/2016	Vehicle performance and energy consumption	

Signature of HOD

Subject :- HV

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Session wise – Course Plan

SEMESTER	:VII	NAME OF THE FACULTY	: Mr. Anand Bhat B
BRANCH	:EEE	DATE OF COMMENCEMENT	: 28-07-16
SUBJECT	:HVE	DATE OF CLOSING	: 21-11-16
SUBJECT CODE	E:10EE73	CLASS STRENGTH	: 61+62
NO OF HRS/W	К:5	TOTAL HRS	: 45

	Chapter	Date	Topics planned for the session	Teachin	Assignments/	Topics
Sessio n No	no./No. of hours planned		(UNIT 1 was handled by other Faculty)	g Aids	Tests planned for the chapter	Covered as per plan
1	1/10	01-08- 2016	Introduction to HV technology	Chalk & Talk		



2	1/10	02-08- 2016	Introduction to HV technology	"		
3	1/10	02-08- 2016	Need for generating High Voltages in Laboratory	u		
4	1/10	03-08- 2016	Need for generating High Voltages in Laboratory	РРТ		
5	1/10	04-08- 2016	Industrial applications of High Voltage	Chalk & Talk		
6	1/10	08-08- 2016	Industrial applications of High Voltage	РРТ		
7	1/10	09-08- 2016	Electrostatic Precipitation	u		
8	1/10	09-08- 2016	Electrostatic Separation	"		
9	1/10	10-08- 2016	Electrostatic Painting	u		
10	1/10	11-08- 2016	Electrostatic Printing	u		
11	3&4/14	17-08- 2016	UNIT 2&3:Overview of High Voltage Engineering, Breakdown Phenomenon Basics	Chalk & Talk	Assignment 1	
12	3&4/14	18-08- 2016	Gas, Liquid, Solid and Liquid Dielectrics: Properties, Breakdown Strength, Gas as an Insulating Media	u		
13	3&4/14	18-08- 2016	Ionization Process, Ionization by collision	u		
14	3&4/14	19-08- 2016	Ionization- Photoionization; Secondary Ionization process due to - positive ions	"		

15	3&4/14	20-08- 2016	Secondary Ionization process due to - photons, metastable and neutral Atoms. Electron attachment Process	"	
16	3&4/14	24-08- 2016	Electron Attachment Process, Townsend's current growth equation	u	
17	3&4/14	25-08- 2016	Townsend's criterion for breakdown: Derivation and VTU exam Problems	u	Assignment 2
18	3&4/14	25-08- 2016	Vtu Exam Problems, 3 conditions, Breakdown in Electronegative Gas	u	
19	3&4/14	26-08- 2016	Time lags for breakdown, Limitations of Townsend's Theory	"	
20	3&4/14	27-08- 2016	Streamer Theory	"	
21	3&4/14	31-08- 2016	Paschen law: Derivation and Problems.	u	
22	3&4/14	01-09- 2016	Breakdown in non uniform fields. Corona discharges.	u	
23	3&4/14	09-09- 2016	Breakdown in solid dielectrics: Intrinsic Breakdown, avalanche breakdown, thermal breakdown, and electro mechanic breakdown.	u	
24	3&4/14	14-09- 2016	Breakdown of liquid dielectrics: Suspended particle theory, electronic Breakdown, cavity breakdown (bubble's theory), electro	РРТ	Assignment 3

			convection breakdown.		
25	5/7	15-09- 2016	UNIT 5: Introduction to standard lightning and switching impulse voltages	Chalk & Talk	
26	5/7	15-09- 2016	Analysis of single stage impulse generator-expression for Output impulse voltage.	u	
27	5/7	16-09- 2016	Multistage impulse generator working of Marx impulse	u	
28	5/7	17-09- 2016	Rating of impulse generator. Components of multistage impulse generator.	u	
29	5/7	21-09- 2016	Triggering of impulse generator by three electrode gap arrangement.	"	Assignment 4
30	5/7	22-09- 2016	Trigatron gap and oscillograph time sweep circuits.	"	
31	5/7	22-09- 2016	Generation of switching impulse voltage. Generation of high impulse current.	РРТ	
32	6/9	23-09- 2016	UNIT 6: Electrostatic voltmeter- principle,	Chalk & Talk	
33	6/9	24-09- 2016	Construction and limitation.	u	
34	6/9	28-09- 2016	Chubb and Fortescue method for HV AC measurement.	"	
35	6/9	29-09- 2016	Generating voltmeter- Principle, Construction.	u	Assignment 5

36	6/9	29-09- 2016	Series resistance micro ammeter for HV DC measurements	"		
37	6/9	03-10- 2016	Standard sphere gap measurements of HV AC, HV DC, and impulse voltages	"		
38	6/9	04-10- 2016	Factors affecting the measurements	"		
39	6/9	07-10-2016	Potential dividers-resistance dividers capacitance dividers mixed RC potential dividers.	u		
40	6/9	08-10- 2016	Measurement of high impulse currents-Rogogowsky coil and Magnetic Links.	РРТ	Assignment 6	
41	7/5	08-10- 2016	UNIT 7: Dielectric loss and loss angle measurements using Schering Bridge	Chalk & Talk		
42	7/5	13-10- 2016	Transformer ratio Arms Bridge.	u		
43	7/5	14-10- 2016	Need for discharge detection and PD Measurements aspects.	u		
44	7/5	19-10- 2016	Factor affecting the discharge detection.	"		
45	7/5	20-10- 2016	Discharge detection methods-straight and balanced methods.	u	Assignment 7	
46	4/7	20-10- 2016	UNIT 4: HV AC-HV transformer;.	u		
47	4/7	21-10- 2016	Need for cascade connection and working of transformers units connected in cascade	u		
48	4/7	22-10-	Series resonant circuit- principle of	u		

		2016	operation and advantages			
49	4/7	02-11- 2016	Tesla coil. HV DC- voltage doubler circuit,	u		
50	4/7	03-11-2016	cock croft- Walton type high voltage DC set.	u		
51	4/7	03-11- 2016	Calculation of high voltage regulation	u		
52	4/7	04-11- 2016	ripple and optimum number of stages for minimum voltage drop	u		
53	8/6	05-11- 2016	UNIT 8: Definitions of terminologies	u	Assignment 8	
54	8/6	07-11- 2016	tests on isolators	u		
55	8/6	08-11- 2016	Tests on Circuit breakers	u		
56	8/6	09-11- 2016	tests on cables,	u		
57	8/6	09-11- 2016	Tests on insulators	"		
58	8/6	19-11- 2016	Tests on Transformers	u		

Signature of H.O.D

Subject :- ID

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Session wise – Course Plan

SEMESTER :VII	NAME OF THE FACULTY	: M.CHITHRA
BRANCH : EEE	DATE OF COMMENCEMENT	: 01-8-2016
SUBJECT : INDUSTRIAL DRIVES & APPLICATION	DATE OF CLOSING	: 10- 11-2016
SUBJECT CODE : 10EE74	CLASS STRENGTH	: 62(A)/58(B)
NO OF HRS/WK : 5	TOTAL HRS	: 55

	Chapter no	DATE	Topics planned for the session	Teaching	Assignments/	Торі
Session No	(No of hrs planed for the chapter)			Aids	Tests planned for the chapter	cs cov ered As per plan
1	1/1	3/8/16	UNIT I – AN INTRODUCTION TO	Board,		
			ELECTRICAL DRIVES & ITS			

			DYNAMICS	chalk,		
				duster		
			Electrical drives. Advantages of electrical drives.			
2	2/1	4/8/16	Parts of electrical drives,	"		
3	3/1	5/8/16	Choice of electrical drives,	"		
4	4/1	6/8/16	Status of dc and ac drives,	"		
5	5/1	7/8/16	Dynamics of electrical drives, Fundamental torque equation,	"		
6	6/1	10/8/16	Speed torque conventions and multi-quadrant operation.	,,,		
7	7/1	11/8/16	Equivalent values of drive parameters,	"	Assignment- I	
8	8/1	12/8/16	Components of low torques, nature and classification of load torques,	Board, chalk, duster		
9	9/1	13/8/16	Calculation of time and energy loss in transient operations,	,,,		
10	10/1	14/8/16	Steady state stability,	"		
11	11/1	18/8/16	Load equalization. Problems	"	Assignment - II	
12	¥2	19/8/16	UNIT II –SELECTION OF MOTOR RATING	"		
			Thermal model of motor for heating and cooling,			
13	2/2	20/8/16	Classes of motor duty,	"		

14	3/2	21/8/16	Determination of motor rating. (Continuous duty, fluctuating and intermittent loads)	"		
16	4/2	22/8/16	Determination of motor rating. (Short time duty)		Assignment -III	
16	5/2	25/8/16	Determination of motor rating. (Intermittent periodic duty)			
17	6/2	26/8/16	Problem solving			
18	1/3	27/8/16	UNIT III & IV			
			Dc motor drives			
			starting			
19	2/3	28/8/16	Braking,	,,		
20	3/3	29/8/16	Transient analysis,	,,		
21	4/3	1/9/16	Single phase fully controlled rectifier control of dc separately excited motor,	"		
22	5/3	2/9/16	Single-phase half controlled rectifier control of dc separately excited motor.			
23	6/3	3/9/16	Three phase fully controlled rectifier control of dc separately excited motor,	"		
24	7/3	4/9/16	Three phase half controlled rectifier control of dc separately excited motor	"		
25	1/4	7/9/16	Problems	,,	Assignment –IV	
26	2/4	9/9/16	Multi-quadrant operation of dc separately excited motor fed from fully controlled rectifier.			
27	3/4	10/9/16	Problems			

28	4/4	11/9/16	Rectifier control of dc series motor,	"		
29	5/4	12/9/16	Chopper controlled dc drives,	"		
30	6/4	18/9/16	chopper control of separately excited dc motor.	"		
31	7/4	22/9/16	Problems			
32	8/4	23/9/16	Chopper control of series motor.	"		
33	1/5	25/9/16	UNIT V- INDUCTION MOTOR DRIVES Operation with unbalanced source voltage and single phasing,	Board, chalk, duster	Assignment -V	
34	2/5	26/9/16	Operation with unbalanced rotor impedances,	"		
35	3/5	28/9/16	Analysis of induction motor fed from non-sinusoidal voltage supply,	"		
36	4/5	30/9/16	starting ,Braking	"		
37	5/5	1/10/16	Transient analysis.	"		
38	1/6	5/10/16	UNIT VII STATOR VOLTAGE CONTROL Variable voltage frequency control from voltage sources,	,,		
39	2/6	6/10/16	Voltage source inverter control,	"		
40	3/6	7/10/16	Closed loop control,	"		
41	4/6	9/10/16	Current source inverter control,	"		

42	5/6	12/10/16	Current regulated voltage source inverter control,	11	Assignment -VI	
43	7/6	13/10/16	Rotor resistance control, slip power recovery	"		
44	8/6	14/10/16		Board,		
			Speed control of single phase induction motors.	chalk,		
				duster		
45	1/7	16/10/16	UNIT VII SYNCHRONUOS MOTOR DRIVES	"		
			Operation from fixed frequency supply,			
46	2/7	17/10/16	Synchronous motor variable speed drives,	"		
47	3/7	19/10/16	Synchronous motor variable speed drives (continued)	"		
48	4/7	20/10/16	Variable frequency control of multiple synchronous motors.	"	Assignment -VII	
49	5/7	21/10/16	Self-controlled synchronous motor drive employing load commutated thruster inverter.			
50	6/7	31/10/16	Self-controlled synchronous motor drive employing load commutated thruster inverter.			
51	7/7	3/11/16	Problems			
52	1/8	4/11/16	UNIT VIII	,,		
			INDUSTRIAL DRIVES			
			Rolling mill drives,			
53	2/8	5/11/16	Cement mill drives,	,,	Assignment -VII	

54	3/8	6/11/16	Paper mill drives,	,,	
55	4/8	7/11/16	Textile mill drives.	,,	

Signature of HOD

Subject :- HVDC

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Session wise – Course Plan

SEMESTER	: VII	NAME OF THE FACULTY	: Ms T Aruna Kumari
BRANCH	: EEE	DATE OF COMMENCEMENT	: 28-07-16
SUBJECT	: HVDC Transmission	DATE OF CLOSING	: 21 -11-16
SUBJECT CODE	: 10EE751	CLASS STRENGTH	: 72
NO OF HRS/WI	< : 5	TOTAL HOURS	: 60

	Chapte	Date	Topics planned for the session	Teaching	Assignments	Topics
Session No	r no./No. of hours planne d			Aids	/ Tests planned for the chapter	Covered as per plan
1	1/10		Intro to HVDC Transmission	Board,	Assignment	
	1/10			chalk,	-1	
		01-08-2016		duster		
2	2/10		Intro to UNIT - 1 & 2			
		02-08-2016	GENERAL ASPECTS OF DC TRANSMISSION AND COMPARISON OF IT WITH AC TRANSMISSION:	u		
3			Historical sketch,			
5	3/10	03-08-2016		u		
4	4/10		Historical sketch,.			
		04-08-2016		u		
5	5/10		constitution of EHV AC and DC links,	PPT Presenta tion	Assignment -II	
		06-08-2016				
6	6/10	06-08-2016	Types of dc links			
7	7/10	08-08-2016	Limitations and Advantages of AC and DC Transmission.	u		
8	8/10		Limitations and Advantages of AC and DC Transmission.	Board,		
				chalk,		
		09-08-2016		duster		
9	9/10		Revision of unit 1 & 2			
		10-08-2016		РРТ		

1		1			
				Presenta	
				tion	
10	1/12				Assignment
	1/12		Intro to unit - 3 & 4		-111
				PPT	
			CONVERTER CIRCUITS:	Presenta	
				tion	
		11-08-2016			
			Value Characteristics		
11	2/12		Valve Characteristics,		
				Board,	
				board,	
				chalk,	
				,	
		12-08-2016		duster	
12	3/12	16-08-2016	Valve Characteristics,		
		10 00 2010			
13	4/12		Properties of converter circuits,		
	4/12				
		17-08-2016		"	
14	5/12		assumptions,		
		18-08-2016		u	
		18-08-2010			
15	6/12		single phase converters		
	0/1Z				
				u	
		19-08-2016			
16	7/12		single phase converters		Assignment
					-IV
		20-08-2016		"	
47			three phase convertors		
17	8/12	22-08-2016	three phase converters,		
18	9/12		three phase converters,		
		23-08-2016		"	
19	10/12	24-08-2016	three phase converters,		
		_			

				"		
20	11/12		choice of best circuits for HV DC circuits.			
		25-08-2016		u		
21	12/12		Revision of unit 3 & 4			
		26-08-2016		"		
22	1/10		Intro to UNIT - 5		Assignment	
	, -			u	-V	
		27-08-2016	ANALYSIS OF THE BRIDGE CONVERTER:	"		
23	2/10		Analysis with grid control but no overlap,	PPT		
				Presenta tion		
		30-08-2016				
24	3/10		Analysis with grid control and with			
		31-08-2016	overlap less than 60 deg,	u		
		51 00 2010				
25	4/10		Analysis with grid control and with overlap less than 60 deg,	Board,		
				chalk,		
		01-09-2016		duster		
	- (
26	5/10		Analysis with overlap greater than 60 deg, ,			
		09-09-2016		"		
27	6/10		Analysis with overlap greater than 60			
			deg, ,	u		
		13-09-2016		"		
28	7/10		complete characteristics of rectifier			
		14-09-2016		u		
20	0/10		complete characteristics of restifier			
29	8/10		complete characteristics of rectifier			
		15-09-2016		"		
30	9/10		Inversion.			
		10 00 2040		u		
		16-09-2016				

31	10/10		Revision of unit V		
		17-09-2016		u	
32	1/15		Intro to UNIT - 6 & 7		Assignment
		20-09-2016	CONTROL OF HVDC CONVERTERS AND SYSTEMS:	u	-VI
33	2/15		grid control,		
		21-09-2016		"	
34	3/15		basic means of control,	Board,	
		22-09-2016		Chalk	
35	4/15		power reversal,		
		23-09-2016		u	
36	5/15		limitations of manual control,		
		24-09-2016		u	
37	6/15	26-09-2016	constant current versus constant voltage,		
38	7/15	27-09-2016	constant current versus constant voltage,	u	Assignment –VII
39	8/15		desired feature of control,		
		28-09-2016		u	
40	9/15		actual control characteristics,		
		29-09-2016		u	
41	10/15	03-10-2016	constant -minimum -Ignition –angle control,	u	
42	11/15		constant –current control,		
		04-10-2016		"	
43	12/15	06-10-2016	constant -extinction -angle control,		

				1	
				u	
44	13/15		Stability of control.		
		07-10-2016		u	
45	14/15		Revision of unit VI & VII		
		08-10-2016		u	
46	15/15		Revision of unit VI & VII		
		13-10-2016		u	
47	1/12		Intro to UNIT - 8		Assignment
		14-10-2016	PROTECTION:	u	-VIII
48	2/12		Introduction,		
		18-10-2016		u	
49	3/12		DC reactor,		
		19-10-2016		u	
50	4/12		voltage oscillations and valve dampers,		
		20-10-2016		u	
51	5/12		current oscillations and anode dampers,		
		21-10-2016		u	
52	6/12		current oscillations and anode dampers,		
		22-10-2016		u	
53	7/12		DC line oscillations and line dampers,		
		28-10-2016		u	
54	8/12		DC line oscillations and line dampers,		
		02-11-2016		u	
55	9/12		clear line faults		
		03-11-2016		u	

56	10/12		clear line faults		
		04-11-2016		u	
57	11/12		Reenergizing the line.		
		05-11-2016		u	
58	12/12		Revision of unit VIII		
		07-11-2016		u	
59	-		Revision		
		08-11-2016		и	
60	-		Revision		
		09-11-2016		u	

Signature of HOD

Subject :- PLC

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Session wise – Course Plan

SEMESTER	: VII	NAME OF THE FACULTY	: Mr. Anand Bhat B
BRANCH	: EEE	DATE OF COMMENCEMENT	: 28-07-16
SUBJECT	: PLC	DATE OF CLOSING	: 21 -11-16
SUBJECT CODE	: 10EE752	CLASS STRENGTH	: 19
NO OF HRS/W	K :5	TOTAL HOURS	: 56

Session No	Chapter no./No.of hours planned	Date	Topics planned for the session	Teaching Aids	Assignments / Tests planned for the chapter	Topics Covered as per plan
1	1/9	01-08- 2016	Prerequisites: Role of control System, Examples of control circuits, Microprocessor control systems_	Board, chalk, duster		
2	1/9	02-08- 2016	INTRODUTION: Introduction to Programmable logic controller (PLC), role in automation (SCADA)	u		
3	1/9	03-08- 2016	Advantages and Disadvantages, Hardware, internal architecture	u		
4	1/9	04-08- 2016	Sourcing and sinking, Characteristics of I/O devices	u		
5	1/9	06-08- 2016	Input devices : Mechanical switch, proximity switch, Encoders	PPT Presenta tion		
6	1/9	08-08- 2016	Temperature sensors,position sensors,strain gauge, Pressure sensors, Liquid level detectors,	u		

			Smart sensors			
7	1/9	09-08- 2016	Output Devices, Examples of Applications	Board, chalk, duster		
8	1/9	10-08- 2016	I/O processing, input/output units, signal conditioning	PPT Presenta tion		
9	1/9	11-08- 2016	Remote connections, networks, processing inputs I/O addresses	PPT Presenta tion	Assignment - I	
10	2/6	16-08- 2016	Unit :2 Programming Ladder diagrams, PLC ladder programming	Board, chalk, duster		
11	2/6	17-08- 2016	Logic Functions: AND, OR, NAND & NOR – NOT & XOR – Circuits and ladder diagrams, Latching	u		
12	2/6	18-08- 2016	Multiple outputs – Ladder rung with two outputs, Ladder rung with two inputs & two outputs. Entering programs, Ladder symbols	u		
13	2/6	19-08- 2016	Function blocks – for Logic gates, Ladder diagrams and equivalent functional block diagram	u		

14	2/6	20-08- 2016	Boolean Algebra, Location of stop and emergency switches	u		
15	2/6	23-08- 2016	Program examples	u	Assignment -II	
16	3&4/10	24-08- 2016	Unit 3 & 4: Instruction Lists – Ladder programs & instruction lists	u		
17	3&4/10	25-08- 2016	Instruction list – Branch codes, more than one rung	и		
18	3&4/10	26-08- 2016	Programming examples	u		
19	3&4/10	27-08- 2016	Sequential function charts – with example	u		
20	3&4/10	30-08- 2016	Branching and convergence, Actions	PPT Presenta tion	Assignment -III	
21	3&4/10	31-08- 2016	Structures text – Conditional statements	u		
22	3&4/10	01-09- 2016	Iteration statements, Structured text programs, comparison with ladder programs	Board, chalk, duster		
23	3&4/10	09-09- 2016	Jump – Jumps within jumps,	u		
24	3&4/10	13-09- 2016	Subroutines, Function boxes	u		

25	3&4/10	14-09- 2016	Problems- Revision	u	Assignment –IV	
26	5/5	15-09- 2016	Unit 5: Internal relays – ladder programs- Programs with multiple input conditions	u		
27	5/5	16-09- 2016	Latching programs, Response time	u		
28	5/5	17-09- 2016	Battery backed relays, One shot operation	и		
29	5/5	20-09- 2016	Set and Reset, Program examples	и		
30	5/5	21-09- 2016	Master control relay, Examples of programs	и	Assignment -V	
31	6&7/12	22-09- 2016	Units 6 & 7: Timers& Counters: Types of timers, On Delay timers	Board, Chalk		
32	6&7/12	23-09- 2016	Sequencing, Cascaded timers	и		
33	6&7/12	24-09- 2016	On/Off cycle timer, Off-Delay timer	и		
34	6&7/12	27-09- 2016	Pulse timer, Retentive timers	u	Assignment -VI	
35	6&7/12	28-09- 2016	Programming examples	u		
36	6&7/12	29-09- 2016	Exercises	u		

37	6&7/12	03-10- 2016	Counters: Forms of counter, Programming	"		
38	6&7/12	04-10- 2016	Counter Application	u		
39	6&7/12	06-10- 2016	Up and down computing	"		
40	6&7/12	07-10- 2016	Timers with counters, Sequencer	u		
41	6&7/12	08-10- 2016	Programming examples	"	Assignment –VII	
42	6&7/12	13-10- 2016	Revision & discussion on VTU questions	"		
43	8/10	14-10- 2016	Unit 8: Shift register & Data handling – Shift registers	"		
44	8/10	18-10- 2016	Ladder programs	"		
45	8/10	19-10- 2016	Sequencing application	"		
46	8/10	20-10- 2016	Data handling: Registers and bits	"		
47	8/10	21-10- 2016	Data Movement	u		
48	8/10	22-10- 2016	Data comparison	u		

49	8/10	28-10- 2016	Data selection, Arithmetic operations	u		
50	8/10	02-11- 2016	Closed loop control – modes of control	u		
51	8/10	03-11- 2016	Control with a PLC, Temperature control applications	u		
52	8/10	04-11- 2016	Bottle packing application.	u	Assignment –VIII	
53	-	05-11- 2016	Revision	G.D		
54	-	07-11- 2016	Revision	G.D		
55	-	08-11- 2016	VTU Question Paper Discussion	G.D		
56	-	09-11- 2016	VTU Question Paper Discussion	G.D		

Signature of H.O.D

Subject :- TC

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Session wise – Course Plan

SEMESTER	: VII	NAME OF THE FACULTY	: Ms. SARANYA.S
BRANCH	: EEE	DATE OF COMMENCEMENT	: 28-07-16
SUBJECT	: Testing & Commissioning	DATE OF CLOSING	: 21 -11-16

SUBJECT CODE : 10EE756	CLASS STRENGTH	: 35
NO OF HRS/WK : 5	TOTAL HOURS	: 56

Session No	Chapter no./No.of hours planned	Date	Topics planned for the session	Teaching Aids	Assignments / Tests planned for the chapter	Topics Covered as per plan
1	1/16		Introduction(UNIT 1&2)	Board,		
		01-08- 2016		chalk, duster		
2	2/16	02-08- 2016	Specification : Power and distribution transformers as per BIS standards	u		
3	3/16	03-08- 2016	Installation: Location, site, selection, foundation details Foundation details	u		
4	4/16	04-08- 2016	code of practice for terminal plates polarity & phase sequence	и		
5	5/16	06-08- 2016	Transformer oil	PPT Presenta tion		
6	6/16	08-08- 2016	Dying of winding and general inspection	u		
7	7/16	09-08-	Commissioning tests Testing of transformers, polarity tests, volt	Board,		

		2016	ratio test, , earth resistance, oil strength	chalk, duster		
8	8/16	10-08- 2016	earth resistance, oil strength Bucholz & other relays	PPT Presenta tion		
9	9/16	11-08- 2016	Bucholz & other relays tap changing gear, fans & pumps	PPT Presenta tion	Assignment - I	
10	10/16	16-08- 2016	tap changing gear, fans & pumps insulation test, impulse test	Board, chalk, duster		
11	11/16	17-08- 2016	insulation test, impulse test polarizing index	u		
12	12/16	18-08- 2016	polarizing index load & temperature rise test. load & temperature rise test	u		
13	13/16	19-08- 2016	Specific Tests :Determination of performance curves, like efficiency	u		
14	14/16	20-08- 2016	Determination of performance curves like regulation	u		
15	15/16	23-08-	Determination of mechanical stress		Assignment	

		2016	under normal conditions	"	-11	
16	16/16	24-08- 2016	Determination of mechanical stress under abnormal conditions	u		
17	1/14	25-08- 2016	Synchronous machines & UNIT 3 & 4) Specification & physical details	u		
18	2/14	26-08- 2016	Installation :foundation details, alignments, excitation systems	u		
19	3/14	27-08- 2016	cooling and control gear , drying out.	u		
20	4/14	30-08- 2016	Commissioning Tests: Insulation, Resistance measurement of armature & field windings	PPT Presenta tion		
21	5/14	31-08- 2016	waveform & telephone interference tests	и		
22	6/14	01-09- 2016	line charging capacitance.	Board, chalk, duster		
23	7/14	09-09- 2016	Performance tests :slip test, maximum lagging current	u		
24	8/14	13-09- 2016	maximum reluctance power tests, sudden short circuit tests	u		
25	9/14	14-09- 2016	transient & sub transient parameters	u	Assignment –III	
26	10/14	15-09-	measurements of sequence			

		2016	impedances, capacitive reactance	u		
27	11/14	16-09- 2016	separation of losses	u		
28	12/14	17-09- 2016	Temperature rise test, and retardation tests.	u		
29	13/14	20-09- 2016	Gap length, magnetic eccentricity	u		
30	14/14	21-09- 2016	Balanci14ng vibrations, bearing performance	u	Assignment -IV	
31	1/16	22-09- 2016	Induction motors: UNIT (5,6,7) specifications for different types of motors, Duty, I.P. protection	Board, Chalk		
32	2/16	23-09- 2016	Installation: Location of the motors (including the foundation details)	u		
33	3/16	24-09- 2016	control apparatus	и		
34	4/16	27-09- 2016	shaft & alignment for various coupling,	и		
35	5/16	28-09- 2016	fitting of pulleys & coupling, drying of windings	u		
36	6/16	29-09- 2016	Commissioning Test Mechanical tests for alignment	и		
37	7/16	03-10- 2016	air gap symmetry, tests for bearings	u		

38	8/16	04-10- 2016	tests for bearings, Vibration and balancing	u		
39	9/16	06-10- 2016	Electrical Tests Insulation test, earth resistance	u		
40	10/16	07-10- 2016	high voltage test, starting up failure to speed up to take the load	u		
41	11/16	08-10- 2016	type of test, routine test	u	Assignment –V	
42	12/16	13-10- 2016	factory test and site test	u		
43	13/16	14-10- 2016	Tests : Performance and temperature rise tests	u		
44	14/16	18-10- 2016	Stray load loses	u		
45	15/16	19-10- 2016	Shaft alignment	u		
46	16/16	20-10- 2016	Re-rating and special duty capability Basic problems	"		
47	1/10	21-10- 2016	SWITCH GEAR & PROTECTIVE DEVICES: Standards and types	u		
48	2/10	22-10- 2016	Specification	u		
49	3/10	28-10- 2016	Foundation	u		

50	4/10	02-11- 2016	installation Commissioning tests	u		
51	5/10	03-11- 2016	Commissioning tests	u		
52	6/10	04-11- 2016	maintenance schedule	и	Assignment –VI	
53	7/10	05-11- 2016	Type test			
54	8/10	07-11- 2016	routine tests			
55	9/10	08-11- 2016	revision			
56	10/10	09-11- 2016	revision			

Subject :- PSP

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Session wise – Course Plan

Department of Electrical And Electronics Engg

SEMESTER	: VII	NAME OF THE FACULTY	: Ms. Sharen Ranjit
BRANCH	: EEE	DATE OF COMMENCEMENT	: 28.08.2016
SUBJECT	: POWER SYSTEM PLANNING	DATE OF CLOSING	: 21.11.2016
SUBJECT COD	E: 10EE761	CLASS STRENGTH	: 89
NO OF HRS/W	VK :5	TOTAL HOURS	: 62

Sessio n No.	Chapter no. (No of hrs planne d for the chapter)	Date	Topics planned for the session	Teachin g Aids	Assignmen ts/ Tests planned for the chapter	Topics covered as per plan
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1	1/1(Uni t 1)	1/8/2016	Introduction of power planning:	board	Pre- requisites	
			National and regional planning			
2	2/1	2/8/2016	National and regional planning	"		
3	3/1	3/8/2016	Structure of power system	"		
4	4/1	5/8/2016	Structure of power system	"		
5	5/1	6/8/2016	Planning tools	"		
6	6/1	8/8/2016	Planning tools	"	Assignmen t-1	
7	7/1	9/8/2016	Electricity regulation	"		
8	8/1	10/8/2016	Electricity regulation	"		
9	9/1	11/8/2016	Load forecasting	"		
10	10/1	12/8/2016	Load forecasting	"		
11	11/1	16/8/2016	Forecasting techniques	"		
12	12/1	17/8/2016	Forecasting techniques	"		
13	13/1	18/8/2016	Modeling	"		
14	14/1	19/8/2016	Modeling	"		
15	1/2(Uni t 2)	20/8/2016	Generation planning : Integrated power generation	"		
16	2/2	22/8/2016	Integrated power generation	"		
17	3/2	23/8/2016	Co-generation / captive power	"		
18	4/2	24/8/2016	Power pooling and power trading	"		
19	5/2	25/8/2016	Transmission & distribution planning	"		

20	6/2	26/8/2016	Transmission & distribution planning	"	Assignmen t-2	
21	7/2	27/8/2016	Power system economics	"		
22	8/2	30/8/2016	Power sector finance	"		
23	9/2	30/8/2016	Financial planning	"		
24	10/2	1/9/2016	Financial planning	"		
25	11/2	9/9/2016	Private participation	"		
26	13/2	10/9/2016	Rural electrification investment,	"		
27	14/2	13/9/2016	concept of rational tariffs	"		
28	1/3(Uni t 3)	14/9/2016	Computer aided planning : Wheeling	"		
29	2/3	16/9/2016	Environmental effects	"		
30	3/3	19/9/2016	Green house effect	"		
31	4/3	21/9/2016	technological impacts	"		
32	5/3	23/9/2016	Insulation co-ordination	"	Assignmen t-3	
33	6/3	24/9/2016	Insulation co-ordination	"		
34	7/3	26/9/2016	Reactive compensation	"		
35	8/3	27/9/2016	Reactive compensation	"		
36	1/4(Uni t 4)	28/9/2016	Power supply reliability : Introduction	"		
37	2/4	29/9/2016	Reliability planning	"		
38	3/4	3/10/2016	Reliability planning	"		
39	4/4	4/10/2016	System operation planning	"		
40	5/4	5/10/2016	Load management	"	Assignmen t-4	

41	6/4	6/10/2016	Load management	"		
42	7/4	7/10/2016	load prediction	"		
43	8/4	8/10/2016	Reactive power balance	"		
44	9/4	13/10/2016	Reactive power balance	"		
45	10/4	17/10/201 6	Online power flow studies	"		
46	11/4	18/10/201 6	Test estimation	"		
47	12/4	19/10/201 6	computerized management	"		
48	13/4	21/10/201 6	Power system simulator	"		
49	1/5(Uni t 5)	22/10/201 6	Optimal power system expansion planning	"	Assignmen t-5	
50	2/5	27/10/201 6	Optimal power system expansion planning	"		
51	3/5	27/10/201 6	Formulation of least cost optimization problem incorporating the capital	"		
52	4/5	28/10/201 6	Formulation of least cost optimization problem incorporating the capital	"		
53	5/5	28/10/201 6	Operating and maintenance cost of candidate plants of different types	"		
54	6/5	2/11/2016	Optimization techniques for solution by programming	"		
55	7/5	3/11/2016	Optimization techniques for solution by programming	"		
56		4/11/2016	REVISION			
57		5/11/2016	REVISION			

58	5/11/2016	REVISION	
59	7/11/2016	Question paper discussion	
60	7/11/2016	Question paper discussion	
61	8/11/2016	Question paper discussion	
62	8/11/2016	Question paper discussion	

Subject :- VLSI

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Session wise – Course Plan

Department of Electrical and Electronics Engineering

Semester	: VII	Name Of the Faculty	: VINAY B K
Branch	: EEE	Date Of Commencement	: 25.07.2016
Subject	: VLSI CIRCUITS AND DESIGN	Date Of Closing	: 02.11.2016
Subject Code	: 10EE764	Class Strength	: 38
No Of Hrs/ W	/k: 5	Total Hrs	: 56

	Chapter no	Date	Topics planned for the session	Teaching	Assignme	Topics
Sessi	(No of hrs			Aids	nts/	covered
on	planed for the				Tests	as per
No	chapter)				planned	plan
					for the	
					chapter	
1	1/1	25/07/2016	Unit - 1	Board &		



			A review of microelectronics and	chalk		
			an introduction to MOS			
			technology Introduction to			
			integrated circuit technology			
2	2/1	26/07/2016	Introduction, VLSI technologies,	"	Assignme nt- I	
3	3/1	28/07/2016	MOS transistors,	,,		
4	4/1	29/07/2016	Thermal aspects, Fabrication,	,,		
5	5/1	30/07/2016	Fabrication (Twin Tub Process)			
6	6/1	01/07/2016	Production of E-beam masks			
7	1/2		Unit - 2	,,		
		02/08/2016	Basic electrical properties of MOS and BICMOS circuit: Introduction,			
8	2/2	04/00/2016	Drain to source current I _{ds} Versus	,,		
		04/08/2016	V _{ds} relationships			
9	3/2	05/08/2016	BICMOS latch up susceptibility.	"		
10	4/2	06/08/2016	MOS transistor characteristics,	,,		
11	5/2	08/08/2016	Figure of merit,	"	Assignme nt -II	
12	6/2	09/08/2016	Pass transistor NMOS and CMOS inverters, circuit model,	,,		
13	7/2	11/08/2016	CMOS inverters, circuit model(cont)	"		
14	8/2	12/08/2016	Latch up in CMOS circuits.	"		
15	1/3		Unit - 3	LCD		
		16/08/2016	MOS and BICMOS circuit design processes	Projector		
			MOS layers,			

16	2/3	17/08/2016	Stick diagrams,	"	
17	3/3	18/08/2016	Stick diagrams(cont)	"	
18	4/3	20/08/2016	Design of logic circuits	,,	
19	5/3	22/08/2016	Design(cont)	,,	Assignme nt –III
20	6/3	23/08/2016	Symbolic diagram	"	
21	7/3	24/08/2016	Symbolic diagram (Cont)	"	
22	1/4		Unit - 4	Board &	
		25/08/2016	Basic circuit concepts	chalk	
			Sheet resistance		
23	2/4	27/08/2016	Capacitance	,,	
24	3/4	29/08/2016	Layer inverter delays,	"	
25	4/4	30/08/2016	Layer inverter delays(cont)	"	Assignmnt –IV
26	5/4	31/08/2016	Wiring capacitance,	"	
27	6/4	01/09/2016	Wiring capacitance(cont)	"	
28	7/4	09/09/2016	Choice of layers	"	
29	1/5		Unit - 5	Board &	
		10/09/2016	Scaling of MOS circuits.	chalk	
			Introduction		
30	2/5	13/09/2016	Scaling model and scaling factors	,,	
31	3/5	14/09/2016	Scaling model and scaling factors (cont)	"	
32	4/5	15/09/2016	Scaling model and scaling factors (cont)	"	
33	5/5	17/09/2016	Limitations due to current	"	Assignme

			Density.		nt -V	
34	6/5	19/09/2016	Limitations due to current density(cont)	"		
35	1/6	20/09/2016	Unit - 6 Subsystem design and layout: Architectural issues,	Board & chalk		
36	2/6	21/09/2016	Architectural issues(cont)	,,		
37	3/6	22/09/2016	System considerations	"	Assignme nt -VI	
38	4/6	24/09/2016	System considerations (cont)	"		
39	5/6	26/09/2016	Examples of structural design	"		
40	6/6	27/09/2016	Examples of structural design(cont)	"		
41	7/6	28/09/2016	Clocked sequential circuits	"		
42	8/6	29/09/2016	Clocked sequential circuits(cont)	"		
43	1/7	04/10/2016	Unit - 7 Subsystem design processes General considerations,	Board & chalk		
44	2/7	05/10/2016	Illustration of design process,	,,		
45	3/7	06/10/2016	Illustration of design process (cont)	"	Assignme nt -VII	
46	4/7	07/10/2016	Observations.	,,		
47	5/7	08/10/2016	Observations (cont)	,,		
48	1/8	14/10/2016	Unit - 8 Illustration of the design process: Observation on the design of an	Board & chalk		

			process,		
49	2/8	17/10/2016	Regularity Design	"	
50	3/8	18/10/2016	ALU subsystem	"	
51	4/8	19/10/2016	Design of 4-bit Adder	"	
52	5/8	20/10/2016	Implementation of ALU functions.	"	Assignme nt -VIII
53	6/8	22/10/2016	Implementation of ALU functions (cont)	"	
54		27/10/2016	Revision	"	
55		28/10/2016	Discussion of previous question papers.	"	
56		02/11/2016	Discussion of previous question papers.	"	

Signature of faculty

Signature of HOD

Signature of Principal