

Teaching Diary

2020-21

Power Systems-II

Sl. No.	DATE	PERIOD	TOPICS TAUGHT <u>Unit - I</u>	REMARKS
1.	1/9/2020	II	{ Introduction to Thyristor controlled drives, Block Diagram	
2.	2/9/20	III	{ 1-Φ semi & full converter fed SEDC motor (N-T plot, exp, w/f's)	
3.	3/9/20	II	{ 1-Φ semi & full converter fed DC series drive (N-T plot, expn, w/f's)	
4.	4/9/20	II	3-Φ semi converter fed SEDC DC Series Drives	
5.	5/9/20	I	{ 3-Φ full converter fed SEDC DC series drives.	
6.	8/9/20	II	{ Numerical problems on	
7.	9/9/20	III	{ 1-Φ & 3-Φ converter fed	
8.	10/9/20	II	{ DC drives	
			<u>Unit-II</u>	
9.	11/9	II	{ Introduction to 4-quadrant operation of a dc drive.	
10.	12/9	I	{ Single & 2-quadrant chopper	
	15/9	II	{ fed DC drives	
11.	16/9	III	{ Electric Braking methods	
12.	17/9	II	{ Dynamic, plugging + Re	
13.	18/9	II	{ generative Brakings	
14.	19/9	I	{ 4-quadrant operation of DC motors by 1-Φ / 3-Φ dual convls	
15.	22/9	II	{ closed loop operation of DC motors (Block Diagram only)	
16.	23/9	III	4-quadrant chopper fed DC Drive	
17.	24/9	II	{ Numerical problems	
18.	26/9	I	"	
19.	25/9.	II	"	
20.	29/9.	II	{ closed loop operation of DC chopper fed DC Drive	
21.	30/9	III	Revision class	
			<u>Unit-III</u>	
22.	1/10	II	study & analysis of egmt chl-	

Qatarano
Lecturer

Gupta
H.O.D.



Princip
Principal

No.	DATE	PERIOD	TOPICS TAUGHT	REMARKS
			of 3-Ø Induction motor.	
23	3/10	I	{ derivations for T_{max} , S_{max} , Tst, Performance curves	
24.	6/10	II	Stator vg control	
25.	7/10	III	Variable vg characteristics	
26.	8/10	II	{ control of IM by ACV's	
27.	9/10	II	{ $1-\phi + 3-\phi$.	
28.	10/10	I	{ (Motoring & plugging).	
29.	13/10	II	Variable freq. characteristics	
30.	14/10	III	Variable freq. of IM by VSI	
31.	15/10	II	VFC of IM. by CSI	
32.	16/10	II	VFC of IM by cyclo's.	
33.	27/10	II	PWM control of 3-Ø IM drives	
34.	28/10	III	VSI Vs. CSI fnd drives, N-T chart	
35.	29/10	II	{ closed loop operation of IM drives (Block diagram only)	
36.	30/10	II	{ Numerical problems on 3-Ø	
37.	31/10.	I	{ T.M. drives	
38.	3/11	II	{	unit-IV
39.	4/11	III	{ Introduction to Rotor side control of T.M. drive (SRIM)	
40.	5/11	II	{ after conventional Rotor Resist control of T.M. drives, dis advt. & applications	
41.	6/11	II	{ static Rotor Resistance control of SRIM drive.	
42.	7/11	I	{ slip power recovery schemes	
10/11.	II	{ conventional methods		
43.	11/11	III	{ static scherbius drive (Through dc Link)	
44.	8/12	II	{ static Scherbius drive by cyclo converter.	

Ghatana

A.S. D.

Principal



SI. No.	DATE	PERIOD	TOPICS TAUGHT	REMARKS
45	9/12	III	Static Kramer's Drive,	
46	10/12	II	Modified (or) Improved version of static Kramer drive	
47	11/12	II	{ Performance + Speed- Torque characteristics	
48	12/12	I	Advantages + applications.	
49	15/12	II	Numerical problems.	
50	16/12	III	" "	
51	17/12	II	" "	
52	18/12	II	" "	
53	19/12	I	{ closed Loop control of static Kramer drive.	
54.	22/12	II	{ closed Loop control of Static Scherbius drive.	
55			UNIT-I	
55	23/12	III	Separate control of S.M.	
56	24/12	II	Self control of S.M	
57.	25/12	II	{ self control of S.M drives by VSI	
58	26/12	I	{ self control of S.M drives by CSI	
59.	29/12	II	{ self control of S.M drives by cyclo converters.	
60.	30/12	III	{ Load commutated CSI fed synchronous Motors	
55	31/12	II	Applications + advantages	
56.	2/1	I	{ Numerical problems	
57	5/1	II	" "	
58	6/1	III	" "	
59.	7/1	II	" "	
60	8/1	II	closed Loop control of S.M drives. (Block diag only)	

Lecturer
Orbital

T.Sreeja
Ph.D.



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Principal