

DC MACHINES LAB

S.NO	APPARATUS NAME	SPECIFICATIONS/RANGE	IN STOCK REGISTER BOOK	IN LAB STOCK	PAIRS/ DAMA	REMARKS
1	D C RECTIFIER	220V,100A	1	1		
2	DC SHUNT MOTOR COULED TO DC SHUNT GENERATOR	MOTOR 5HP, GENERATOR 3KW	1	1		
3	DC SHUNT MOTOR WITH BREAKE DRUM ARRANGEMENT	MOTOR 5HP, 220V, 1500RPM	1	1		
4	DC SHUNT MOTOR COUPLED TO SERIES GENERATOR	MOTOR 3HP 220V 1500RPM/ GENERATOR 1.8 K , 220V, 1500RPM	1	1		
5	DC SHUNT MOTOR COUPLED TO COMPOUND GENERATOR	MOTOR 3HP 220V 1500RPM/ GENERATOR 1.8 K , 220V, 1500RPM	1	1		
6	DC SHUNT MOTOR	MOTOR 5HP, 220V, 1500RPM	1	1		
7	DC SERIES MOTORCOUPLED WITH DC SERIES GENERATOR	MOOTOR 2KW, 220V, 1500RPM/ GENEROTR 1.8 K , 220V, 1500RPM	1	1		
8	DC COMPOUND MOTOR WITH MECHANICAL LOAD ARRANGEMENT	3HP/220V/1500RPM	1	1		
9	3-POINT STARTER		3	3		
10	2-POINT STARTER		1	1		
11	3-POINT STARTER		1	1		
12	3-POINT STARTER		1	1		
13	4-POINT STARTER		1	1		
14	3-POINT STARTER		1	1		
15	3-POINT STARTER		1	1		
16	DC VOLTMETER	300/600V	2	2		
		150/300V	3	2		
		75/150V	1	1		
		0-150V	2	2		
		0-300V	5	1		
17	DC AMMETERS	0-1/2A	2	1		
		0-10/20A	1	1		
		0-5/10A	3	2		
		0-1/2A	4	2		
		0-20A	5	3		
		0-2A	1	1		
18	RHEOSTART	300Ω/1.4A	3	3		
		200Ω/1.7A	1	1		
		300Ω/1.7A	1	1		
		16Ω/5A	2	2		
		200Ω/1.7A	1	1		
19	WIRE WOUND RESISTIVE LOAD	1-Φ,10AMPS ,1.8KW	2	2		
20	DIGITAL TACHO METER	CONTACT TYPE	4	4		
21	ANALOG TACHO METER	CONTACT TYPE	1			

AC MACHINES LAB

S.NO	APPARATUS NAME	SPECIFICATIONS/RANGE	IN STOCK REGISTER BOOK	IN LAB STOCK	PAIRS/ DAMA	REMARKS
1	AC SLIPRING INDUCTION MOTOR	5HP	1	1		
2	STEPDOWN TRANSFORMER	1- Φ , 2KVA, 440/230V, OPEN TYPE	1	1		
3	SQUIRRELCAGE INDUCTION MOTOR WITH MECHANICAL LOAD AND	3- Φ , 5HP, 1500RPM	1	1		
4	STEPDOWN TRANSFORMER	1- Φ , 2KVA	1	1		
5	STEPDOWN TRANSFORMER	1- Φ , 2KVA, 230/115V, AIR COOLED	2	1		
6	DC MOTOR COUPLED TO NON SALIENT ALTERNATOR	MOTOR :5HP/220V/1500RPM ALTERNATOR: 3- Φ , 3KVA, 415V, 1500RPM	1	1		
7	3- Φ SYNCHRONOUS MOTOR	3- Φ , 415V/3KVA,	1	1		
8	DC MOTOR COUPLED TO SALIENT ALTERNATOR	MOTOR :5HP/220V/1500RPM ALTERNATOR: 3- Φ , 3KVA, 415V, 1500RPM	1	1		
9	SQUIRRELCAGE INDUCTION MOTOR CSCR WITH MECHANICAL LOAD	1- Φ , 1HP/230V/1440RPM/50Hz	1	1		
10	1- Φ AUTO TRANSFORMER	1- Φ , 0-270V, 10A	1	2		
11	1- Φ AUTO TRANSFORMER	1- Φ , 0-270V, 8A	1	1		
12	1- Φ AUTO TRANSFORMER	1- Φ , 0-250V,10A	1	1		
13	AC VOLT METERS	MI TYPE, 0-150/300V	2	3		
		MI TYPE, 0-300/600V	7	7		
14	AC AMMETERS	MI TYPE, 0-5/10A	7	10		
		MI TYPE, 0-10/20A	1	2		
15	WATTMETERS	LPF, 300V/600V, 10A	3	9		
16	WATTMETERS	UPF, 150V/300V/600V, 5/10A	1	2		
		UPF, 300V/600V, 10A	5	6		
17	SEPARATE EXCITATION SYSTEM	I/P: 1- Φ , 50Hz, AC, 230V O/P: 0-250V, DC	1	1		
18	DOL STARTER INTER LOCKED WITH SEPARATE EXCITATION SYSTEM		1	0		
19	DIGITAL AMMETER	0 TO 2A	0	1		

M.TECH

MACHINES & POWER SYSTEMS LAB

1	DC SHUNT MOTOR COUPLED WITH ALTERNATOR(salient pole)	MOTOR 5HP 220V 1500RPM/ GENERATOR 415V, 4.2A,3.5KVA,1500RPM	1			
2	DC SHUNT MOTOR COUPLED WITH ALTERNATOR(Non-salient pole)	MOTOR 5HP 220V 1500RPM/ GENERATOR 415V, 4.2A,3.1KVA,1500RPM	1			
3	THREE WINDING TRANSFORMER	3- Φ ,2.2KVA	1			
4	POWER LAB INSTRUMENT CHARECTISTICS OF IDMT OVER CURRENT RELAY	ELECTRO MAGNETIC TYPE	1			
5	CHARECTERISTIC OF STATIC NEGATIVE SEQUENCE RELAY		1			

CS & EC'S LAB

S.NO	APPARATUS NAME	SPECIFICATIONS/RANGE	STOCK REGISTER BOOK	IN LAB STOCK	REPAIRS/ DAMAGE	REMARKS
1	CHARACTERISTICS OF SYNCHRONOUS		1	1		
2	EFFECT OF FEEDBACK ON DC SERVO MOTOR		1	1		
3	EFFECT OF P,PD,PID CONTROLLER		1	1		
4	LAG AND LEAD COMPENSATION		1	1		
5	TEMPERATURE CONTROLLER USING PID		1	1		
6	CHARACTERISTICS OF MAGNETIC AMPLIFIER		1	1		
7	DUAL TRACE CRO	DC,20MHz WITH ADD, SUB,X-Y MODE	9	5		
8	FUNCTION GENERATORS	1Hz-1MHz, SINE,SQUARE	6	6		
9	REGULATED POWER SUPPLY WITH DUAL CHANNEL	DC, 0-30V, 1AMP	12	5		
10	DECADE RESISTIVE BOX	10Ω-1mΩ	14	3		
11	DECADE CAPACITIVE BOX	0-11μF	5	4		
12	DECADE INDUCTIVE BOX	100μH-1H	2	0		
13	DIGITAL MULTIMETER		1	1		
14			3	5		
15	BENCH TOP DIGITAL METERS VOLTMETER:	0-200mV	14	1		
		0-20V	3	7		
16	BENCH TOP DIGITAL METERS AMMETER:	0-200μA	6	5		
		0-100mA		8		
		0-200mA	4	3		
17	BREAD BOARDS		10	0		
18	DC DIGITAL AMMETER	0-2A		1		
19	RHEOSTART	200Ω/1.7A		2		

POWER ELECTRONICS LAB

S.NO	APPARATUS NAME	ACCESSORIES	IN STOCK REGISTER BOOK	IN LAB STOCK	REPAIRS/ DAMAGE	REMARKS
1	SCR V-I CHARACTERISTIC STUDY TRAINER	DIGITAL MULTIMETER-3	3	2		
		PC POWER CHORD-1	1	1		
		ASSM SP7 PATCH CHORD-	4	1		
		MANUAL PEC 16MIB	1	1		
2	IGBT AND MOSFET STATIC CHARACTERISTIC MODULE	DIGITAL MULTIMETER-3	3	0		
		PC POWER CHORD-	1	1		
		ASSM SP7 PATCH CHORD	7	7		
		MANUAL VPET-202A	1	1		
3	1- ϕ SERIES INVERTER	RHEOSTART, 50 Ω /4A	1	1		
		PC POWER CHORD-	1	1		
		ASSM SP-6PATCH CHORD	10	10		
		2RCA TO 2RCA CABLE	2	2		
		MANUAL PEC 14M4M6	1	1		
4	FORCED COMMUTATION CIRCUIT MODULE	PC POWER CHORD	1	1		
		MANUAL PEC 14M14CH	1	1		
		ASSM SP7 PATCH CHORD	18	18		
5	1- ϕ CYCLO CONVERTER WITH RE,RL-LOADS	PC POWER CHORD	1	1		
		MANUAL PEC 14M14CY	1	1		
		ASSM SP7 PATCH CHORD	20	1		
6	R,RC AND UJT FIRING MODULE	RHEOSTART, 50 Ω /4A	1	1		
		PC POWER CHORD-	1	1		
		ASSM SP-6PATCH CHORD	6	6		
		ASSM SP-7PATCH CHORD	2	2		
		MANUAL PEC 14M12	1	1		
7	TRAIC AC PHASE CONTROL	LAMP-40W	1	1		
		PC POWER CHORD-	1	1		
		ASSM SP-6PATCH CHORD	2	2		
		MANUAL VPET- 203	1	1		
		2RCA TO 2RCA CABLE	1	1		
		2-PIN POWER CARD WITH SP6	1	1		
8	1- ϕ , SCR FULLY CONTROLLED CONVERTER WITH R	PC POWER CHORD	1	1		
		MANUAL VPET- 205	1	1		
		2RCA TO 2RCA CABLE	4	4		
9	JONES CHOPPER TRAINER MODULE CLASS-D TYPE	PC POWER CHORD	1	1		
		MANUAL PEC 14M21	1	1		
		ASSM SP7 PATCH CHORD	2	2		
		2RCA TO 2RCA CABLE	2	2		
10	STUDY OF DC DC BUCK CONVERTER TPSS4160	STUDY UNIT	1	1		
11	STUDY BUCK REGULATOR LM3475	STUDY UNIT	1	1		
12	STUDY OF TPS7A4901 & TPS7A8300 REGULATORS	STUDY UNIT	1	1		
13	SINGLE PHASE AC VOLTAGE CONTROLLER	RHEOSTART, 50 Ω /2A	1	1		
14	SINGLE PHASE PARALLEL INVERTER	INDUCTOR 0-50-100-150mH/2A	1	1		

ELECTRICAL MEASUREMENT LAB					REMARKS
S.NO	APPARATUS NAME	ACCESSORIES	IN STOCK REGISTER BOOK	IN LAB STOCK	REPAIRS/ DAMAGE
1	AC VOLT METERS	MI TYPE, 0-75/150/300V	3	3	
		MI TYPE, 0-300V	3	2	
		MI TYPE, 0-5/10A	3	3	
2	AC AMMETERS	MI TYPE, 0-10A	3	0	
		DC AMMETERS	0-10A		2
3	DC VOLTMEERS	0-300V		3	
		LPF, 300V/600V, 5A/10A	1	0	
4	WATTMETERS	LPF, 300V/10A	1	0	
		UPF, 75V/150V, 1A/5A	1	0	
5	WATTMETERS	UPF, 300V/600V, 5A/10A	1	0	
		29 Ω /4.1A	1	0	
6	RHEOSTART	300 Ω /1.2A	1	2	
7	1- Φ AUTO TRANSFORMER	1- Φ , 0-270V, 10A	4	2	
8	3- Φ AUTO TRANSFORMER	470V/10A	1	0	
9	DYNAMOMETER TYPE POWER FACTOR METER	0.5-1 LEAD/LAG PF	1	1	
		ENERGY METER	1- Φ , 230V, 10A	1	1
11	STOP WATCH		1	0	
12	1- Φ INDUCTIVE LOAD	0 TO 2.5/7.5/10A	2	1	
13	CURRENT TRANSFORMER	5/10/15/20A	2	2	
14	CROMPTON DC POTENTIOMETER	0 TO 300V	1	1	
15	KELVINS DOUBLE BRIDGE	0 TO 110 Ω	1	1	
16	SHERING BRIDGE		1	1	
17	ANDERSON BRIDGE		1	0	
18	LVDT		1	1	
19	STRAIN TRAINER		1	1	
20	GALVANAMTER		0	1	
21	RPS	2 CHANNEL, 0-30V DC	0	1	
22	DRB		0	1	
22	DCB		0	1	