

ELECTRICAL ENGINEERING DEPARTMENT

MACHINE LAB.

S.N.	NAMR OF LABORATORY	CAPACITY OF STUDENTS	ROOM NO	AREA IN M2	DETAILS OF FURNITURE	REMARKS
1	Machine Lab	30	43	144 m2	Dual Desks	As per norms



Electrical Machines Lab

S. N.	Name of Laboratory	No. of students per set up (batch size)	Name of important equipment (costing more than Rs 30,000)	Qty.	Weekly utilization status (All the courses for which the lab is utilized)	Technical Manpower in support		
						Name of Technical Staff	Designation	Qualification
1.	Machine Lab.	20	D. C. Motor Generator set , 1. D.C. starter, 2. Rheostat Regulator, 3. set of carbon brush Sr. No. 9713/9714, Sr. No. 9715/9716	2				
			Electrical machine trainer suitable for demonstrating the construction and functioning of different type of D.C. machine and A.C. machines consisting of following components	1				
			Three Phase Rectifier i/P 140V AC 0/Po to 230V 50V Variable DC manual Automatic Voltage correction	1				

			Super Power Generator D.G. set Comprising Cummins Make s.3 & G-7 Water Cooled Engine Coupled to standard make 62.5 KVA 150 kw	1	18 hours per week in odd semester & 18 hours per week in even semester	Mr.R.D. Pisode	Instructo r (Electric al)	ITI (Electric al) ,BSC
			Resistive Load 3 to 5 KVA 440 V 0.20 per phase pitted on movable stand covered suitable semi closed type	1				
			Resistive Load 3 to 5 KVA 440 V 0.20 per phase pitted on movable stand covered suitable semi closed type	1				
			3 Transformer 440 V 50Hz 440/110 V 5KVA	1				
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			DCMG Set 230 Volt 2 KVA DC Compound Generator 2 KVA DC Compound Motor	1				
			DCMG Set 230 Volt 2 KVA DC Shunt Generator 2 KVA Coupled with DC Motor	1				
			DCMG Set 230 Volt 2 KVA DC Shunt Generator 2 KVA 230V Coupled with DC shunt Motor	1				
			Alternator set 3 Phase 5 KVA 440 Volts 60Hz 1500 RPM in built Set coupled with DC Shunt Motor 5 KVA 230 V	1				
			Induction Load 3 PH 440 V 0.10 Amp	1				
			Induction Load 3 PH 440 V 0.10 Amp	1				
			Auto transformer 1 Q 230 V 15 Amp Variable Type	3				
			DC Compound Motor 5 Hp 230 V with 4 Point Stander Mounted on C type angle Foundation Frame	1				
			DC Shunt Motor 5 HP 230 V with 3 Point Starter mounted on C Type angle foundation Frame	1				
			DC shunt Motor 5 HP 230 V with 2 Point Starter with all terminal as field armature winding Brought out mounted one type angle	1				
			Capacity load 3 Phase 5 KVN 440 V 50 Hz 0 - 10 Amp per Phase fitted on	1				

			Movable Stand					
			Capacity load 3 Phase 5 KVN 440 V 50 Hz 0 - 10 Amp per Phase fitted on Movable Stand	1				
			3 Phase Induction Motor 3 HP 440 V 1440 RPM 4 Pole with Rotor Resistant Starter type for direct loading test with pulley Brake & spring	1				
			Thyrister Controlled machine with controlling paneled with motor	1				
			3 Phase Induction Motor 3 HP 440 V 1440 RPM 4 Pole double squirrel case type direct loading test with pulley and brake & spring Balance fitted on c type	1				