



**DEENBANDHU CHHOTU RAM UNIVERSITY OF SCIENCE & TECHNOLOGY, MURTHAL,
SONEPAT, HARYANA-131039**

**APPARATUS / SOFTWARES FOR M. Tech. in Electrical Engineering
(Power Systems) (2 Years)**

	INFRASTRUCTURE	REQUIRED	AVAILABLE	DEFICIENCY
List of Labs / Equipments / Softwares				
S. No.	Name of Equipments / Softwares	Quantity		
M. Tech. 1st Year Labs: Power System Software Lab, Power System Hardware Lab				
Power System Software Lab				
1.	Power System Analysis Software such as MATLAB with required power system tool boxes ORDIGSILENT	01		
2.	Data Acquisition Software & Hardware such as LABVIEW	01		
Power System Hardware Lab				
3.	Transmission line model (for calculation of ABCD parameters, calculation of performance under different loads, calculation of single line to ground fault & three phase fault)	01		
4.	Testing setup for cable fault location	01		
5.	CT & PT testing kit	01 each		
6.	IDMT over current relay testing kit	01		
7.	Under voltage relay testing kit	01		
8.	Over voltage relay testing kit	01		
9.	Differential current relay testing kit	01		
10.	Negative sequence relay testing kit	01		
11.	Transformer oil testing kit	01		
12.	Three phase resistive load bank for 5 KW	01		
13.	Research Facilities of M. Tech. Dissertation	As per requirements		
Name of the Lab: MEM-607-B: Seminar Lab/Room				
14.	Smart Class Room having facility of interactive Board, LCD Projector, P.C., Chairs, A.C., etc.	As per requirements		

Certified by the Director/Principal