Dr. D. Y. Patil Unitech Society

DR. D. Y. PATIL INSTITUTE OF TECHNOLOGY

(formerly Dr. D. Y. Patil Institute of Engineering and Technology)

Sant Tukaram Nagar, Pimpri, Pune.

DEPARTMENT OF ELECTRONICS & TELECOMMUNICATION

Electrical Circuit Virtual Lab

Savitribai Phule Pune University

Second Year of E &TC Engineering (2019 Course)

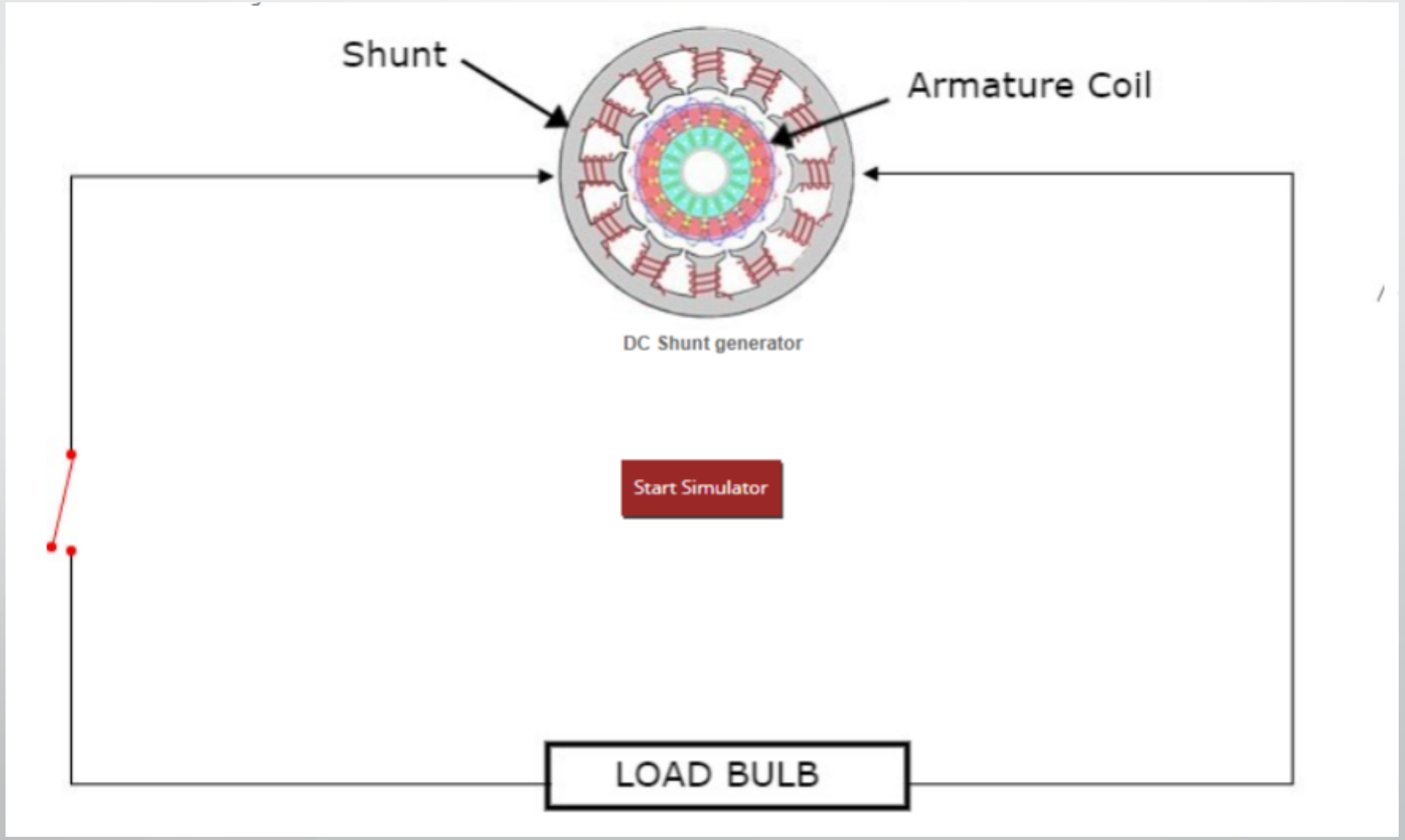
204187: Electrical Circuits Lab

EXPERIMENT 3

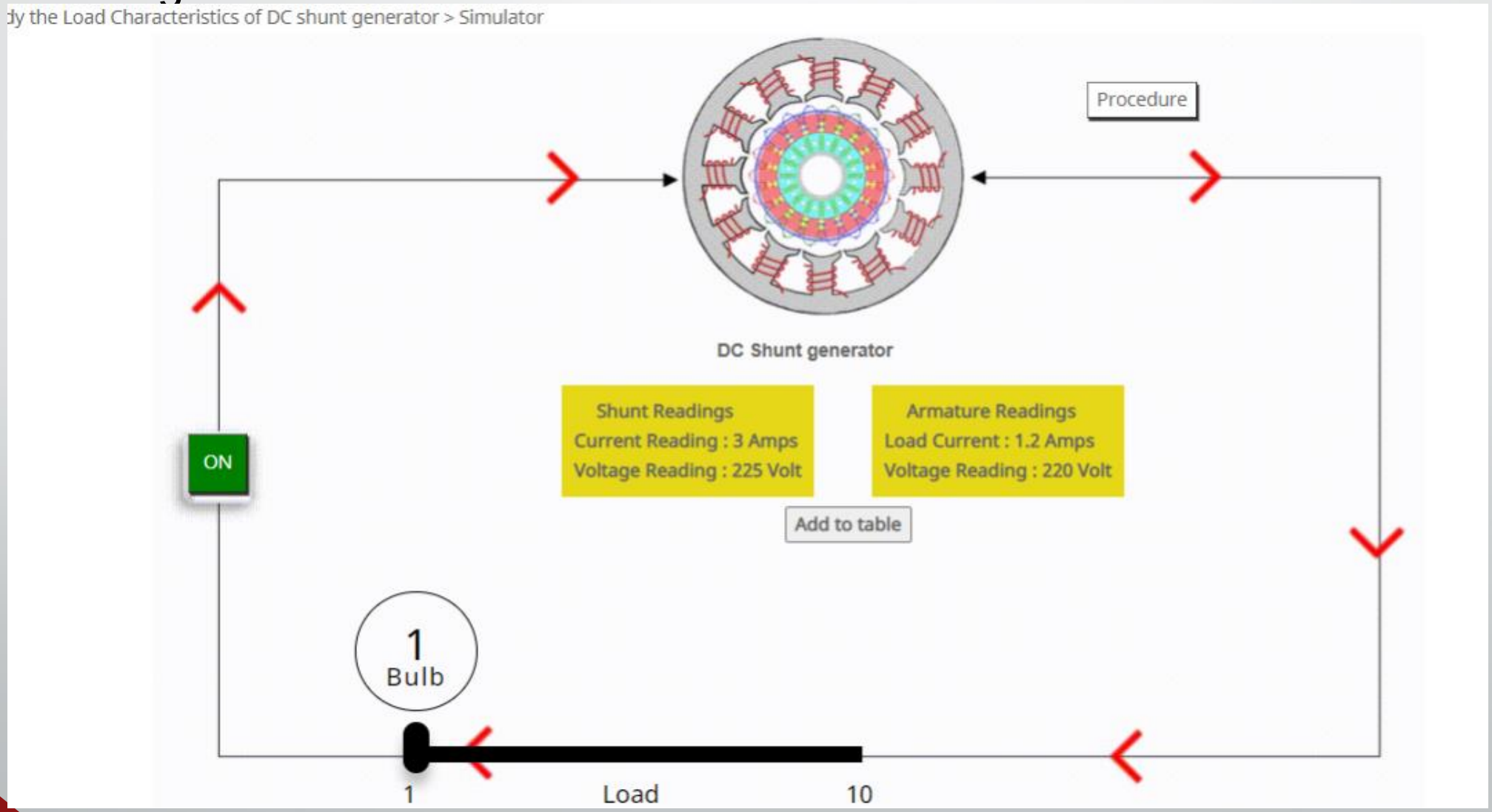
To study the Load Characteristics of DC shunt generator

Procedure:

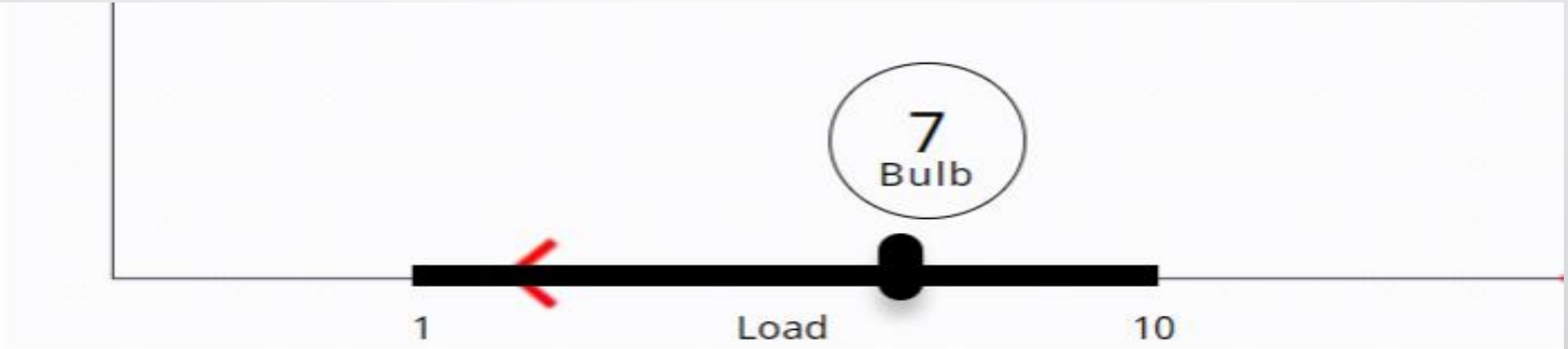
1) Go to the Simulator tab and click on **Start Simulator.**



2) Note the shunt and armature readings for current and voltage when the load is of 1 bulb.Click on **Add to table** button to save the readings.



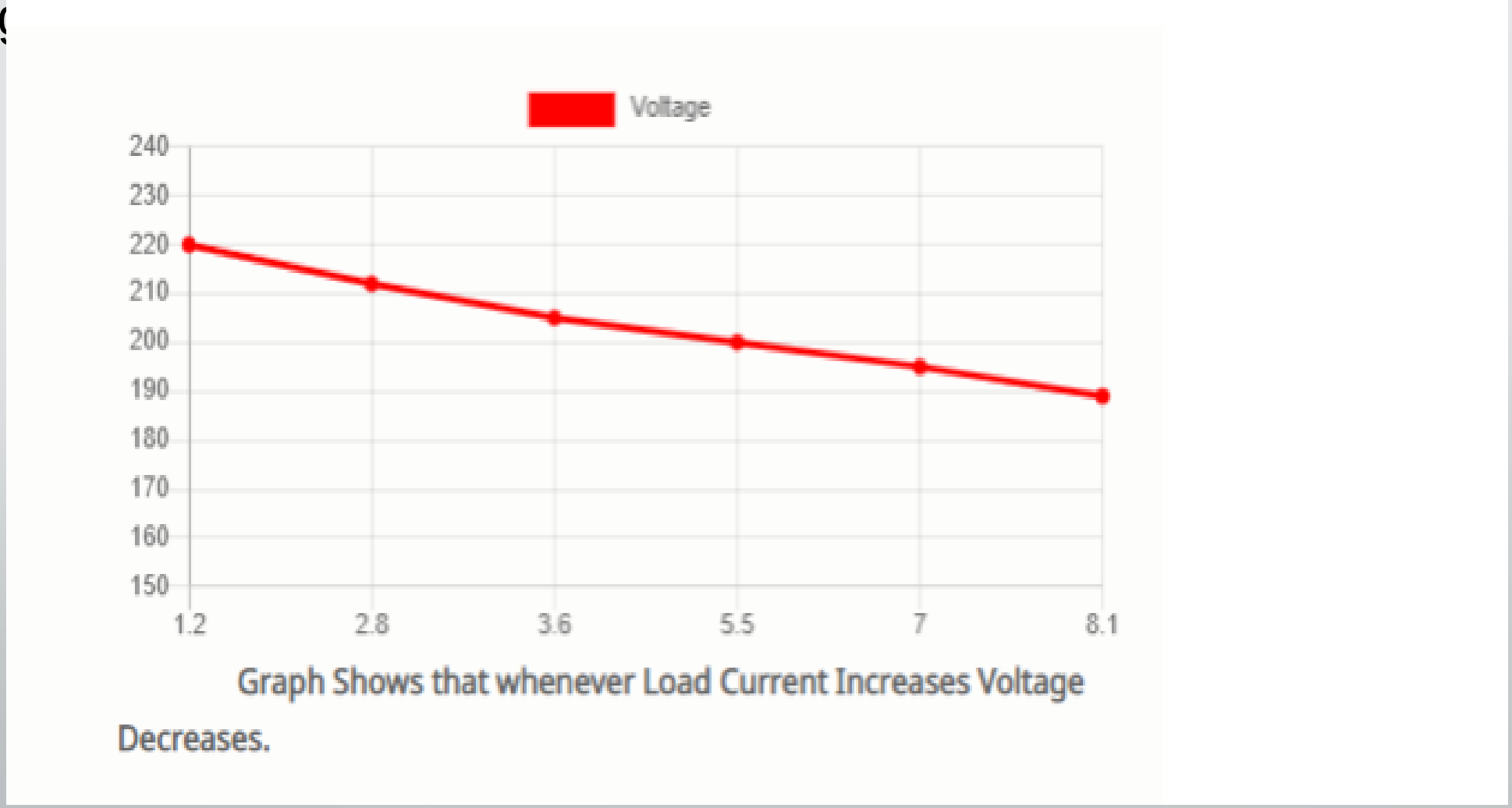
3) Now,increase the number of bulbs i.e.load gradually and observe the change in current and voltage.Also click on the **Add to table** button for each increment.Maximum 6 readings are possible.



Armature Readings

S.No.	Load Bulb	Load Current(in amp)	Volatge(in Volts)
1.	1	1.2	220
2.	2	2.8	212
3.	4	3.6	205
4.	5	5.5	200
5.	6	7	195
6.	7	8.1	189

4) Click on Plot Graph button.Load characteristics of DC generator will be displayed according to the values in the table.Observe the relation between load current and terminal voltag



5) Click on **Reset** button to reset all the values and to take the new set of readings.