**Separately Excited DC Shunt Motor**

**5.1 Objectives:**

* To Study and Learn about Separately Excited Motor
* Speed Controlling of Separately Excited Motor By Voltage Control Method

**5.2 Apparatus:**

## **5.3 Theory:**

## **Separately Excited DC Motor:**

## As the name suggests, in case of a separately excited DC motor the supply is given separately to the field and armature windings. The main distinguishing fact in these types of dc motor is that, the armature [current](http://www.electrical4u.com/electric-current-and-theory-of-electricity/)does not flow through the field windings, as the field winding is energized from a separate external source of dc [current](http://www.electrical4u.com/electric-current-and-theory-of-electricity/).

**5.4 Circuit Diagram:**

**5.5 Procedure:**

**5.6 Circuit Result:**

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **S.No** | **Voltage Supplied**  **( V )** | **Resistance (**Ω **)** | **Armature Current (A )** | **Speed of Motor**  **( RPM )** |
| **1.** |  |  |  |  |
| **2.** |  |  |  |  |
| **3.** |  |  |  |  |
| **4.** |  |  |  |  |
| **5.** |  |  |  |  |

**5.7 Conclusion:**

**Date**\_\_­­­\_\_\\_\_\_\_\\_\_\_\_

**Teacher Remarks**: Submitted ON TIME / LATE

**Absent / Present**

**Obtained Marks**: \_\_\_\_\_/10