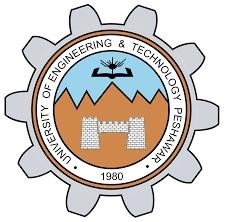
**To Study Angle of Dip by Earth Inductor**



**Submitted to**

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**Analysis Method:**

**Apparatus:**

The following apparatus is used to carry out this demonstration:

1. Earth Inductor
2. Ballistic Galvanometer
3. Compass Needles
4. Magnetic

# Formula:

**TanӨ= Hv/Hh**

**Procedure:**

Following procedure is followed;

1. Connections are made as shown in the ﬁgure.
2. Key is pressed to damp the ballistic galvanometer.
3. Galvanometer is calibrated.
4. Resistance is taken out from H.R.B.
5. Earth inductor is placed vertically with earth’s lines of force.

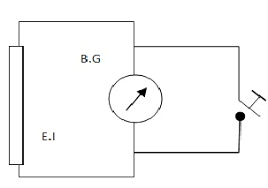
6. Again, Earth inductor is placed Horizontal with earth’s lines of force to

take ballistic galvanometer readings.

7. Hv and Hh give angle of dip by the formula,

**TanӨ= Hv/Hh**

# DIAGRAMS



**Calculations:**

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| S.NO | Hv | Hh | Hv/Hh | Ɵ |
| 1 | 30 | 35 | 0.857 | 40.596 |
| 2 | 37 | 30 | 1.23 | 50.96 |
| 3 | 39 | 32 | 1.21 | 50.63 |
| 4 | 60 | 45 | 1.33 | 53.123 |
| 5 | 65 | 55 | 1.23 | 61.18 |
| 6 | 75 | 40 | 1.21 | 61.93 |

Average **Ө = 53.1**