

E & M UNIT 2 – Objectives

By the time you finish all labs, worksheets and related activities, you should be able to:

- 1 Draw parallels between gravitational and electrical: force, field, energy & potential.

Write formulas for each expression.

Solve for units for each quantity.

2. Map equipotential lines, explain their significance in terms of the field.
3. Use the volt as the unit of electric potential; use two different equations for potential.
4. Explain how a capacitor works.
5. Relate capacitance to plate area and separation.
6. Relate energy storage by a capacitor to charge and potential
7. Use relationships among potential, field, charge and energy to solve for missing quantities.