

**DEPARTMENT: ELECTRICAL SEMESTER: 4** 

**SUBJECT NAME: Electromagnetic Fields** 

**SUBJECT CODE: 3140912** 

## **Assignment: 4**

- 1. Derive Poisson's and Laplace's equations
- 2. State and Explain Ampere circuital law.
- 3. State and explain Biot-Savart's law.
- 4. Write a note on ferrite core. Also list out various properties of ferrites.
- 5. State and Explain Lorentz force equation on charge particle. Also explain concept of magnetic torque.
- 6. Write short note on Stoke's theorem.

