

Assignment # 2

**Course Title: Applied Physics**

**Course Code: PHY-106**

**Submission Date: 07-09-2022**

**Q#1.** What is induced electric field? Where does an induced electric field come from? What is the difference between electrostatic electric field and induced electric field? Can you create induced electric field without changing magnetic field?

**Problem 2.** What is basic electromagnetism? What are basic equations of electromagnetism What are Maxwell's 4 equations? Why Maxwell equations are important? What does Maxwell equation explain?

**Problem 3.** What is displacement current give an example? How does displacement current flow?

**Problem 4.** What is induced Magnetic field? How do induced magnetic fields work?