

**Faculty of Engineering & Technology****Electricity and Magnetism****Information :****Course Code :** EMP122**Level :** Undergraduate**Course Hours :** 4.00- Hours**Department :** Faculty of Engineering & Technology**Instructor Information :**

Title	Name	Office hours
Associate Professor	Ahmed Shawky Mohammed Ghareeb	1
Teaching Assistant	Youssef Hany Abdelwahed Abdelghany Nour	
Teaching Assistant	Asmaa Abdelmotlb Youssef Aly	
Teaching Assistant	Jomana Tamer Mohamed Abd Elghany	
Teaching Assistant	Mohamed Mahmoud Yassin Ahmed Ismail	

**Description :**

Electricity: Electric fields, Electric flux, Gauss's Law and its application to various charge distributions, Electric Potential, Capacitance and dielectrics, Electric current and resistance, Direct-current circuits. Magnetism: Magnetic field, Magnetic force, Biot-savart Law, Ampere's Law, Magnetic flux, Electromagnetic induction, Maxwell's equation in integral form and their physical meaning for electromagnetism.