

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	2
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	
Teaching Assistant	Mohammed Mamdouh Mohammed Ahmed Abo Raia	
Teaching Assistant	Ammar Emad Hamdy Afifi	
Teaching Assistant	Farah Hossam Eldin Mahmoud Abdelhamed Ibrahim	

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.