

## 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
Professor	Abdel Nasser Mahmoud Tawfik Aly	1
Assistant Lecturer	Nada El Said Abdallah Hassan Salem	
Assistant Lecturer	Ahmed Abdelfattah Abdelaziz Abdelfattah	
Teaching Assistant	Mohamed Fathy Salem Mohamed	
Teaching Assistant	Noura Abdeltawab Mohamed Abdelhamid Elgindy	

#### 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.