

## 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	Borham Mohamed Taher El adorousy Ali eldin	2
Lecturer	MOHAMED EHAB AHMED FAKHERELDIN BAKR	5
Assistant Lecturer	REHAM MILAD KAMEL SAMAAN	
Assistant Lecturer	Nada El Said Abdallah Hassan Salem	
Assistant Lecturer	Nada El Said Abdallah Hassan Salem	
Assistant Lecturer	REHAM MILAD KAMEL SAMAAN	
Assistant Lecturer	Ahmed Abdelfattah Abdelaziz Abdelfattah	
Teaching Assistant	Mohamed Fathy Salem Mohamed	
Teaching Assistant	Alaa Mostafa Arafa Afify Lashin	
Teaching Assistant	Salma Motaz Fouad Ali El Sherif	
Teaching Assistant	Mariam Mohamed Ali Ahmed Elshimey	

#### 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.