

## Faculty of Engineering & Technology

### Electrical Circuits 2

#### Information :

**Course Code :** EPR 263

**Level :** Undergraduate

**Course Hours :** 4.00- Hours

**Department :** Department of Electrical Engineering

#### Instructor Information :

Title	Name	Office hours
Professor	Said Fouad Mohamed Mekhemar	
Associate Professor	Moneer Mohamed Ali Abu-Elnaga	8
Assistant Lecturer	Ahmed Moreab Hussien Mohamed	3
Assistant Lecturer	Ahmed Moreab Hussien Mohamed	3
Teaching Assistant	Shahd Muhammed Anwer Muhammed Hamed	2

#### Description :

Transient analysis in R-L, R-C, and RLC circuits. Steady state power analysis is described for sinusoidal sources. Maximum power transfer theorem. Three phase circuits; connections, transformations, and power measurements, Magnetically coupled circuits: linear transformer equivalent circuits, ideal transformer. Frequency response, Series and parallel resonance circuits, Quality factor, 3 dB bandwidth, Resonance in mutually coupled circuits.