

## Faculty of Engineering & Technology

### Control Systems 1

#### Information :

**Course Code :** CMP 371

**Level :** Undergraduate

**Course Hours :** 3.00- Hours

**Department :** Department of Electrical Engineering

#### Instructor Information :

Title	Name	Office hours
Professor	Said Fouad Mohamed Mekhemar	3
Associate Professor	Waleed Eid Abd Elrahman Alhanafy	1
Assistant Lecturer	Mohamed Abdallah Mahmoud Shaheen	1
Assistant Lecturer	Marwa Mohamed Zaki Mohamed Shaheen	
Teaching Assistant	Mohammed Ashraf Abdulhamid Abdulfatah Seyam	

#### Description :

Introduction to control systems, Advantages of closed-loop feedback systems, The role of the system mathematical model, Block diagrams and signal flow graphs, The basic control system design problem, stability in control systems, Frequency response analysis techniques, Root-locus analysis, Elementary lead-lag compensation, Examples on continuous control systems, Transient response, Static error analysis, Frequency response, Polar plots, Logarithmic plots, Relative stability, Root locus, Compensation in frequency domain.