

## Faculty of Engineering & Technology

### Introduction to Robotics

#### Information :

**Course Code :** EED423      **Level :** Undergraduate      **Course Hours :** 2.00- Hours

**Department :** Computer & Intelligent Systems Engineering

#### Instructor Information :

Title	Name	Office hours
Associate Professor	MOHAMED ABDELBAR SHAMSELDIN ALY	
Assistant Lecturer	Donia Waheed Mohamed Abdelmonem Saleem	

#### Description :

Robotics overview and applications. Homogeneous vector and plane. Homogeneous transformation. Position and orientation transformations. Kinematics and inverse kinematic solutions of robot manipulators and mobile robot. Robot programming using standard S/W robotics tools (MATEXP.) Implementation the right industrial robotics system for a plant.