

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 |
|--------------------|---------------------------------|--------------|
| Lecturer | MOHAMED ABDELBAR SHAMSELDIN ALY | |
| Teaching Assistant | Alaa Mostafa Arafa Afify Lashin | |

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.