

Faculty of Engineering & Technology

Introduction to Robotics

Information :

| Course Code : EED4 | Lev | vel : | Undergraduate | Course Hours : | 2.00- Hours | | |
|---|-----|-------|---------------|----------------|--------------|--|--|
| Department : Computer & Intelligent Systems Engineering | | | | | | | |
| Instructor Information : | | | | | | | |
| Title | Na | me | | | Office hours | | |

| The | 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.