

# COURSE DETAIL

## INDUSTRIAL ROBOTICS AND MECHATRONICS

**Country**

United Kingdom - England

**Host Institution**

University of London, Queen Mary

**Program(s)**

University of London, Queen Mary

**UCEAP Course Level**

Upper Division

**UCEAP Subject Area(s)**

Mechanical Engineering

**UCEAP Course Number**

154

**UCEAP Course Suffix****UCEAP Official Title**

INDUSTRIAL ROBOTICS AND MECHATRONICS

**UCEAP Transcript Title**

INDUST ROBO&MECHATR

**UCEAP Quarter Units**

6.00

**UCEAP Semester Units**

4.00

## **Course Description**

This is a comprehensive class covering the fundamental areas of mechatronics and robotics technology and its application to a range of areas including industry, medicine, society and extreme environments. The aims of this module are to introduce robotics as an integral part of modern automation, to provide an introductory insight into the engineering design and application of mobile robots and robot manipulators, to provide an understanding of navigation, motion and path planning of robotic systems, to explain the actuator and sensor principles and roles in robotics, to introduce various aspects of robot modelling and actuation and to introduce problems encountered in robot programming and their remedies.

## **Language(s) of Instruction**

English

## **Host Institution Course Number**

DEN6408

## **Host Institution Course Title**

INDUSTRIAL ROBOTICS AND MECHATRONICS

## **Host Institution Campus**

QMUL

## **Host Institution Faculty**

## **Host Institution Degree**

## **Host Institution Department**

School of Engineering & Materials Science

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