

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 Course Details

Host Institution Campus

QMUL

Host Institution Faculty

Host Institution Degree

Host Institution Department

School of Engineering & Materials Science

Course Last Reviewed

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