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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