

COURSE DETAIL

MECHATRONICS 1

Country

United Kingdom - England

Host Institution

Imperial College London

Program(s)

Imperial College London

UCEAP Course Level

Upper Division

UCEAP Subject Area(s)

Mechanical Engineering Engineering

UCEAP Course Number

108

UCEAP Course Suffix

Y

UCEAP Official Title

MECHATRONICS 1

UCEAP Transcript Title

MECHATRONICS 1

UCEAP Quarter Units

4.00

UCEAP Semester Units

2.70

Course Description

The course introduces Mechatronics as a fundamental concept for modelling and designing machine systems, and to encourage electrical systems to be modeled in a manner compatible with mechanical systems using system concepts; to develop an ability to design, and select components for simple electromechanical systems; and to develop mastery of modelling concepts which have direct equivalents in mechanical systems theory, e.g. equivalent characteristics, operating diagrams, complex impedance.

Language(s) of Instruction

English

Host Institution Course Number

MECH40004

Host Institution Course Title

MECHATRONICS 1

Host Institution Course Details

[https://www.imperial.ac.uk/mechanical-
engineering/study/undergraduate/detailed-...](https://www.imperial.ac.uk/mechanical-engineering/study/undergraduate/detailed-...)

Host Institution Campus

Imperial College London

Host Institution Faculty

Faculty of Engineering

Host Institution Degree

Host Institution Department

Department of Mechanical Engineering

Course Last Reviewed

2021-2022

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