

COURSE DETAIL

MECHATRONICS 3A

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

UCEAP Course Number

168

UCEAP Course Suffix**UCEAP Official Title**

MECHATRONICS 3A

UCEAP Transcript Title

MECHATRONICS 3A

UCEAP Quarter Units

5.00

UCEAP Semester Units

3.30

Course Description

Topics covered provide students with a comprehensive knowledge, theoretical and applied, to design and realize a full mechatronic system. The course content includes an overview of Control systems, modelling of dynamic systems, Laplace Transforms, Root locus, Steady state errors, final value theorem, Frequency response analysis, Bode diagrams, Compensation, and PID Controllers.

Language(s) of Instruction

English

Host Institution Course Number

MECH60018

Host Institution Course Title

MECHATRONICS 3A

Host Institution Course Details

<https://www.imperial.ac.uk/mechanical-engineering/study/undergraduate/detailed-...>

Host Institution Campus

London

Host Institution Faculty

Host Institution Degree

Host Institution Department

Mechanical Engineering

Course Last Reviewed

2023-2024

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