

COURSE DETAIL

ELECTROMAGNETISM

Country

United Kingdom - England

Host Institution

Imperial College London

Program(s)

Imperial College London

UCEAP Course Level

Upper Division

UCEAP Subject Area(s)

Electrical Engineering

UCEAP Course Number

104

UCEAP Course Suffix

Y

UCEAP Official Title

ELECTROMAGNETISM

UCEAP Transcript Title

ELECTROMAGNETISM

UCEAP Quarter Units

10.00

UCEAP Semester Units

6.70

Course Description

This course gives students a thorough grounding in electromagnetic systems in electrical engineering. It teaches students how electromagnetic systems provide the foundation of understanding and designing systems as diverse as electrical motors to wireless communication. The Maxwell equations are the basics of Electromagnetism. Students use vector calculus to solve these equations and apply them in low frequency and high frequency applications. Low frequency applications forms strong links with analogue and power electronics whilst high frequency application covers communications and sensing.

Language(s) of Instruction

English

Host Institution Course Number

ELEC50007

Host Institution Course Title

ELECTROMAGNETISM

Host Institution Campus

Kensington

Host Institution Faculty

Host Institution Degree

Host Institution Department

Department of Electrical Engineering

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