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 Course Details
https://intranet.ee.ic.ac.uk/electricalengineering/eecourses_t4/course_content...

Host Institution Campus
Kensington

Host Institution Faculty

Host Institution Degree

Host Institution Department
Department of Electrical Engineering

Course Last Reviewed

2022-2023

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