COURSE DETAIL

ANALYTICAL METHODS IN ELECTRICAL AND COMPUTER ENGINEERING
Country Singapore
Host Institution National University of Singapore
Program(s) National University of Singapore
UCEAP Course Level Upper Division
UCEAP Subject Area(s) Electrical Engineering
UCEAP Course Number 130
UCEAP Course Suffix
UCEAP Official Title ANALYTICAL METHODS IN ELECTRICAL AND COMPUTER ENGINEERING
UCEAP Transcript Title ANALYTICAL METHODS
UCEAP Quarter Units 6.00
UCEAP Semester Units

4.00

Course Description

This course covers the mathematical fundamentals of probability theory and complex variables which are necessary in the study of integrated circuits, communications, communication networks, control systems, signal processing, energy and new media. There is a strong emphasis on the application of these concepts to electrical and computer engineering problems, such as the Gaussian distribution in communications, random variable distributions for system reliability, complex random variables. This course requires students to take prerequisites.

Language(s) of Instruction
English

Host Institution Course Number
EE2012

Host Institution Course Title
ANALYTICAL METHODS IN ELECTRICAL AND COMPUTER ENGINEERING

Host Institution Course Details
https://nusmods.com/courses/EE2012/analytical-methods-in-electrical-and-compute...

Host Institution Campus

Host Institution Faculty

Host Institution Degree

Host Institution Department
Electrical and Computer Engineering

Course Last Reviewed
2025-2026

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