

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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