

COURSE DETAIL

EXPERIMENTAL PHYSICS AND DATA ANALYSIS

Country

Singapore

Host Institution

National University of Singapore

Program(s)

National University of Singapore

UCEAP Course Level

Upper Division

UCEAP Subject Area(s)

Physics

UCEAP Course Number

103

UCEAP Course Suffix

A

UCEAP Official Title

EXPERIMENTAL PHYSICS AND DATA ANALYSIS

UCEAP Transcript Title

EXPERIMENT PHYSICS

UCEAP Quarter Units

6.00

UCEAP Semester Units

4.00

Course Description

This course provides a comprehensive training of both experimental and data analytical skills in mechanics, electronics, magnetism, nuclear physics, semiconductors, optics and lasers. In particular, emphasis is placed on the basic measurement skills in physics experiments, familiarization of the commonly used experimental apparatus, as well as the collection, handling, and analysis of real world data. While this course is mainly for physics majors, it is also suitable for science and engineering students interested in a career in the industries of semiconductors, optical communications, and life sciences.

Language(s) of Instruction

English

Host Institution Course Number

PC2193

Host Institution Course Title

EXPERIMENTAL PHYSICS AND DATA ANALYSIS

Host Institution Course Details

<https://nusmods.com/courses/PC2193/experimental-physics-and-data-analysis>

Host Institution Campus

Host Institution Faculty

Host Institution Degree

Host Institution Department

Physics

Course Last Reviewed

2024-2025

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