

# 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 Campus**

### **Host Institution Faculty**

### **Host Institution Degree**

### **Host Institution Department**

Physics

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