

## COURSE DETAIL

### GENERAL PHYSICS II LABORATORY

**Country**

Hong Kong

**Host Institution**

Hong Kong University of Science and Technology (HKUST)

**Program(s)**

Hong Kong Summer, HKUST

**UCEAP Course Level**

Lower Division

**UCEAP Subject Area(s)**

Physics

**UCEAP Course Number**

12

**UCEAP Course Suffix**

SL

**UCEAP Official Title**

GENERAL PHYSICS II LABORATORY

**UCEAP Transcript Title**

PHYSICS II LAB

**UCEAP Quarter Units**

1.50

**UCEAP Semester Units**

1.00

### **Course Description**

This course is the laboratory course to accompany PHYS 12 (HKUST course PHYS 1114). Students conduct experiments in static and current electricity and magnetism and optics to illustrate the experimental foundations of physics presented in the lecture course. Experiments include: Coulomb's Law; capacitance and electrostatic energy; Coulomb Constant; DC circuits; magnetic field generated by a coil; current balance; introduction to the oscilloscope; Faraday's Law of induction; AC circuits; two-slit interference and diffraction grating. Corequisite: PHYS 12 (HKUST PHYS1114). Text: Penger Tong and David Mak, GENERAL PHYSICS I LAB MANUAL. Assessment: lab performance (30%), lab report (70%).

### **Language(s) of Instruction**

English

### **Host Institution Course Number**

PHYS1115

### **Host Institution Course Title**

GENERAL PHYSICS II LABORATORY

### **Host Institution Course Details**

### **Host Institution Campus**

HKUST International Summer School

### **Host Institution Faculty**

### **Host Institution Degree**

### **Host Institution Department**

Science

### **Course Last Reviewed**

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