

## COURSE DETAIL

### GENERAL PHYSICS I 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**

11

**UCEAP Course Suffix**

SL

**UCEAP Official Title**

GENERAL PHYSICS I LABORATORY

**UCEAP Transcript Title**

PHYSICS I LAB

**UCEAP Quarter Units**

1.50

**UCEAP Semester Units**

1.00

### **Course Description**

This course is the laboratory course to accompany PHYS 11S. Students conduct experiments in mechanics and heat to illustrate the experimental foundations of physics presented in the lecture course. Experiments include: the Atwood Machine, projectile motion, centripetal force, work, energy and friction, conservation of linear momentum, rotational motion, conservation of angular momentum, simple harmonic motion, standing waves on a vibrating string and specific heat and latent heat of vaporization. Co-requisite: PHYS 11S (HKUST course PHYS 1112) Text: Penger Tong and David Mak, GENERAL PHYSICS 1 LAB MANUAL. Assessment: lab performance (30%), lab report (70%).

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

English

### **Host Institution Course Number**

PHYS1113

### **Host Institution Course Title**

GENERAL PHYSICS I LABORATORY

### **Host Institution Campus**

HKUST International Summer School

### **Host Institution Faculty**

### **Host Institution Degree**

### **Host Institution Department**

Science

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