

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 Campus

HKUST International Summer School

Host Institution Faculty

Host Institution Degree

Host Institution Department

Science

[Print](#)