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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