COURSE DETAIL

GENERAL PHYSICS II

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
S

UCEAP Official Title
GENERAL PHYSICS II

UCEAP Transcript Title
PHYSICS II

UCEAP Quarter Units
4.50

UCEAP Semester Units

3.00

Course Description
This course is the second of a series of two general physics courses which employ a calculus-based approach. Key topics include: electric charge and field; Gauss' Law; electric potential; capacitance and dielectrics; current, resistance and EMF; direct-current circuits; magnetic field and magnetic forces; sources of magnetic field; electromagnetic inductions; inductance; alternating current; electromagnetic waves; nature and propagation of light; interference; diffraction. Pre-requisite: single-variable calculus Text: Sears and Zemansky, UNIVERSITY PHYSICS WITH MODERN PHYSICS. Assessment: homework (10%), quizzes (40%), final exam (50%).

Language(s) of Instruction
English

Host Institution Course Number
PHYS1114

Host Institution Course Title
GENERAL PHYSICS II

Host Institution Course Details

Host Institution Campus
HKUST International Summer School

Host Institution Faculty

Host Institution Degree

Host Institution Department
Science

Course Last Reviewed

Print