

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 Campus

HKUST International Summer School

Host Institution Faculty

Host Institution Degree

Host Institution Department

Science

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