COURSE DETAIL

PARTIAL DIFFERENTIAL EQUATIONS

Country Hong Kong

Host Institution University of Hong Kong

Program(s) University of Hong Kong

UCEAP Course Level Upper Division

UCEAP Subject Area(s) Mathematics

UCEAP Course Number

UCEAP Course Suffix

UCEAP Official Title PARTIAL DIFFERENTIAL EQUATIONS

UCEAP Transcript Title PART DIFFERTL EQUAT

UCEAP Quarter Units 5.00

UCEAP Semester Units 3.30

Course Description

This course introduces the basic properties of partial differential equations (PDE) and the techniques that have proved useful in analyzing them. The following topics are studied: Fourier series, orthogonal expansions, and eigenvalue problems; Sturm-Liouville theory; separation of variables for partial differential equations of mathematical physics, including topics on Bessel functions and Legendre polynomials.

Language(s) of Instruction English

Host Institution Course Number MATH4406

Host Institution Course Title PARTIAL DIFFERENTIAL EQUATIONS

Host Institution Campus

Host Institution Faculty

Host Institution Degree

Host Institution Department

Mathematics

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