

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

122

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

INTRODUCTION TO PARTIAL DIFFERENTIAL EQUATIONS

Host Institution Course Details**Host Institution Campus****Host Institution Faculty****Host Institution Degree****Host Institution Department**

Mathematics

Course Last Reviewed

2023-2024

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