

COURSE DETAIL

NUMERICAL PARTIAL DIFFERENTIAL EQUATIONS

Country

Korea, South

Host Institution

Yonsei University

Program(s)

Yonsei University

UCEAP Course Level

Graduate

UCEAP Subject Area(s)

Mathematics

UCEAP Course Number

210

UCEAP Course Suffix**UCEAP Official Title**

NUMERICAL PARTIAL DIFFERENTIAL EQUATIONS

UCEAP Transcript Title

DIFFERENTIAL EQUATN

UCEAP Quarter Units

4.50

UCEAP Semester Units

3.00

Course Description

This course focuses on the fundamentals of modern numerical techniques for a wide range of linear and nonlinear elliptic, parabolic and hyperbolic partial differential equations and integral equations central to a wide variety of applications in science, engineering, and other fields. Topics include Mathematical Formulations; Finite Difference Method, Finite Volume Method, Collocation Method, Finite Element Discretization.

Language(s) of Instruction

English

Host Institution Course Number

CSE5840

Host Institution Course Title

NUMERICAL PARTIAL DIFFERENTIAL EQUATIONS

Host Institution Campus

Host Institution Faculty

Host Institution Degree

Host Institution Department

Mathematics and Computing

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