

# 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 Course Details

## Host Institution Campus

## Host Institution Faculty

## Host Institution Degree

## Host Institution Department

Mathematics and Computing

## Course Last Reviewed

2023-2024

[Print](#)