COURSE DETAIL

ENGINEERING NUMERICAL ANALYSIS

Country
Korea, South

Host Institution
Yonsei University

Program(s)
Yonsei University

UCEAP Course Level
Upper Division

UCEAP Subject Area(s)
Mechanical Engineering

UCEAP Course Number
119

UCEAP Course Suffix

UCEAP Official Title
ENGINEERING NUMERICAL ANALYSIS

UCEAP Transcript Title
ENG NUMRCL ANALYSIS

UCEAP Quarter Units
4.50

UCEAP Semester Units
3.00

Course Description

This course introduces various fundamental algorithms to numerically solve and analyze engineering problems (root finding for non-linear equations, set of linear/non-linear equations, curve fitting, interpolation, Fourier methods, numerical differentiation, numerical integration, ordinary/partial differential equations) using digital computers.

Prerequisite: Students are expected to be familiar with MATLAB.

Language(s) of Instruction
English

Host Institution Course Number
MEU3003

Host Institution Course Title
ENGINEERING NUMERICAL ANALYSIS

Host Institution Campus

Host Institution Faculty

Host Institution Degree

Host Institution Department
Mechanical Engineering

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