

COURSE DETAIL

ENGINEERING MATHEMATICS- DIFFERENTIAL EQUATION (I)

Country

Taiwan

Host Institution

National Taiwan University

Program(s)

National Taiwan University

UCEAP Course Level

Lower Division

UCEAP Subject Area(s)

Engineering

UCEAP Course Number

15

UCEAP Course Suffix**UCEAP Official Title**

ENGINEERING MATHEMATICS- DIFFERENTIAL EQUATION (I)

UCEAP Transcript Title

ENGR MATH DIFF EQ

UCEAP Quarter Units

3.00

UCEAP Semester Units

2.00

Course Description

The course, Differential Equations, is a fundamental mathematics course for the students in the EE department. The contents of this course are as follows:

1. Introduction: definition and terminology
2. First-order differential equation
3. Applications of first-order differential equation
4. Differential equations of higher order
5. Applications of high-order differential equations
6. Series solutions of linear equations
7. Orthogonal functions and Fourier series
8. Boundary-value problems in rectangular coordinates

Language(s) of Instruction

English

Host Institution Course Number

EE2021

Host Institution Course Title

ENGINEERING MATHEMATICS- DIFFERENTIAL EQUATION (I)

Host Institution Campus

Host Institution Faculty

Host Institution Degree

Host Institution Department

Electrical Engineering

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