COURSE DETAIL

ORDINARY DIFFERENTIAL EQUATIONS
Country Ireland
Host Institution Trinity College Dublin
Program(s) Trinity College Dublin
UCEAP Course Level Upper Division
UCEAP Subject Area(s) Mathematics
UCEAP Course Number 178
UCEAP Course Suffix
UCEAP Official Title ORDINARY DIFFERENTIAL EQUATIONS
UCEAP Transcript Title ORDINARY DIFF EQUAT
UCEAP Quarter Units 4.00
UCEAP Semester Units 2.70

Course Description

Students learn how to apply various standard methods (separation of variables, integrating factors, reduction of order, undetermined coefficients) to solve certain types of differential equations (separable, first-order linear, linear with constant coefficients); give examples of differential equations for which either existence or uniqueness of solutions fails; compute the exponential of a square matrix; and use either linearization or the Lyapunov theorems to check the stability of critical points for a given autonomous system.

Language(s) of Instruction
English

Host Institution Course Number
MAU23205

Host Institution Course Title
ORDINARY DIFFERENTIAL EQUATIONS

Host Institution Course Details
https://www.maths.tcd.ie/undergraduate/modules/MAU23205.php

Host Institution Campus
Trinity College Dublin

Host Institution Faculty

Host Institution Degree

Host Institution Department
Mathematics

Course Last Reviewed
2023-2024

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