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A theoretical course on conventional differential equations. First-order equations: individual equations, exact equations, integrated factors. Variation problems, Euler-Lagrange equations. Linear equations and first-order systems. Fundamental matrixes, vrons. Non-linear equations. The existence and uniqueness of the theorem. Power series method. Elementary quality theory; stability, phase plane, stationary points. The theorem of oscillations, the comparison of Sturm. Application in mechanics, physics, chemistry, biology and economics. MAT157Y1/ MAT157Y5, MAT247H1/ MAT247H5 Distribution Requirements: Physical and Mathematical Universes (5) Subject: Applied Mathematics (AMATH) Description: High-quality Systems Theory ODEs. Topics include: existence/uniqueness of solutions, principle of comparison, iterative methods, stability and boundaries, Lapunov method, periodic solutions, Floquet theory and Poincare maps, hyperbolity, stable, unstable and central diversity, structural stability and bifurcation. Applications from different areas will be used to motivate and illustrate the theory. It is highly recommended to conduct the previous course on the usual differential equations at the bachelor's level. Faculty: © 1996-2014, Amazon.com, Inc. or its Amazon affiliates in response to COVID-19 Proposed ClaytonSecond Semester 2019 (On Campus) Prerequisites Students must be enrolled in a master of financial mathematics or have passed one of the following divisions: MTH2032 or MTH2040 This unit examines two specific classes of regular class of problem differential equations: dynamic system and cost boundaries. In the investigation of the problems of border value, problems with the Eygenvalus Sturm-Lyuville and orthogonal polynomials, shooting and methods of direct matrix for numerical research of problems of border value and iterative matrix methods are considered. The second topic of dynamic systems examines analytical and numerical methods for planar autonomous systems, the classification of critical points using eigenval and eigenvectors, and perturbation techniques for periodic and near-periodic movement. Programming skills are developed in the context of analytical and numerical research of advanced conventional differential equations using MATLAB. At the end of this unit, students will be able to understand the importance of differential equations in modeling; Understand and solve the problems of Sturm-Liouville eigenvalue and use orthogonal testing grounds to find accurate solutions to border value problems; Solve linear conventional differential equations using Green's series methods and functions; The use of both analytical and numerical methods to address planar autonomous systems; Classification of critical points using eigenval and eigenvectors; Use indignation techniques for periodic and periodic movement. NOTE: From July 1, 2019, the duration of all exams varies to combine reading writing time. The new exam lasts 3 hours and 10 minutes. End of semester exam (3 hours): 60% (Hurdle) Continuous score: 40% (Hurdle) Hurdle requirement: To pass this block a student must achieve at least 50% overall and at least 40% for both the end semester exam and continuous evaluation of the components. Components.

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