COURSE DETAIL

NONLINEAR DYNAMICS AND CHAOS
Country Mexico
Host Institution National Autonomous University of Mexico
Program(s) National Autonomous University of Mexico
UCEAP Course Level Upper Division
UCEAP Subject Area(s) Physics Engineering
UCEAP Course Number 137
UCEAP Course Suffix
UCEAP Official Title NONLINEAR DYNAMICS AND CHAOS
UCEAP Transcript Title NONLINEAR DYNAMICS
UCEAP Quarter Units 4.50
UCEAP Semester Units 3.00

Course Description

This course offers a study of concepts, definitions, and applications of nonlinear dynamics. Topics include: dimensional systems and bifurcations; systems in two-dimensions-- analysis in phase space, limited cycles, and their bifurcations; Lorenz equations and chaos; 1-D maps and route to chaos by period doubling, renormalization; fractals and strange attractors.

Language(s) of Instruction
Spanish

Host Institution Course Number
2075

Host Institution Course Title
TEMAS SELECTOS DE FÍSICA COMPUTACIONAL II: DINAMICA NO LINEAL Y CAOS

Host Institution Course Details
https://www.fciencias.unam.mx/docencia/horarios/presentacion/342385

Host Institution Campus
CIUDAD UNIVERSITARIA

Host Institution Faculty
FACULTAD DE CIENCIAS

Host Institution Degree

Host Institution Department
FISICA

Course Last Reviewed
2022-2023

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