NPTEL Video Lecture Topic List - Created by LinuXpert Systems, Chennai

NPTEL Video Course - Mathematics - NOC: Mathematical Modelling: Analysis and Applications Subject Co-ordinator - Prof. Ameeya Kumar Nayak Co-ordinating Institute - IIT - Roorkee Sub-Titles - Available / Unavailable | MP3 Audio Lectures - Available / Unavailable Lecture 1 - Introduction to Mathematical Modeling Lecture 2 - Discrete Time Linear Models in Population Dynamics - I Lecture 3 - Discrete Time Linear Models in Population Dynamics - II Lecture 4 - Discrete Time Linear Age Structured Models Lecture 5 - Numerical Methods to Compute Eigen Values Lecture 6 - Discrete Time Non-Linear Models in Population Dynamics - II Lecture 7 - Analysis on Logistic Difference Equation Lecture 8 - Classifications of Bifurcation Lecture 9 - Discrete Time Non - Linear Models in Population Dynamics - II Lecture 10 - Discrete Time Prey - Predator Model Lecture 11 - Introduction to Continuous Time Models Lecture 12 - Solution of First Order First Degree Differential Equations

Lecture 15 - Stability and Linearization of System of Ordinary Differential Equations

Lecture 17 - Qualitative Solution of Differential Equations - Phase Diagrams - I Lecture 18 - Qualitative Solution of Differential Equations - Phase Diagrams - II

Lecture 13 - Continuous Time Models in Population Dynamics - I Lecture 14 - Continuous Time Models in Population Dynamics - II

Lecture 19 - Continuous Time Lotka - Volterra Competition Model

Lecture 16 - Continuous Time Single Species Models

Lecture 20 - Continuous Time Prey - Predator Model

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