

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

NPTEL Video Course - Biotechnology - NOC:Bioreactors

Subject Co-ordinator - Prof. G.K. Suraishkumar

Co-ordinating Institute - IIT - Madras

Sub-Titles - Available / Unavailable | MP3 Audio Lectures - Available / Unavailable

- Lecture 1 - Introduction
- Lecture 2 - Sterilization
- Lecture 3 - Solution to PP 1.1
- Lecture 4 - Some important concepts
- Lecture 5 - Enzyme bioreactors, enzyme kinetics
- Lecture 6 - Solution to PP 2.1
- Lecture 7 - Inhibited enzyme kinetics
- Lecture 8 - Solution to PP 2.2
- Lecture 9 - Measurement principles and methods
- Lecture 10 - Batch growth kinetics
- Lecture 11 - Solution to PP 3.1
- Lecture 12 - Bioreactor analysis
- Lecture 13 - Solution to PP 3.2
- Lecture 14 - Bioreactor environment parameters
- Lecture 15 - Bioreactor env. par. (DO)
- Lecture 16 - Solution to PP 4.1
- Lecture 17 - Shear stress, scale-up, scale-down
- Lecture 18 - Cell view
- Lecture 19 - Solution to PP 5.1
- Lecture 20 - Culture status, metabolic flux analysis
- Lecture 21 - Course summary

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