

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

NPTEL Video Course - Biotechnology - NOC:Bioreactor Design and Analysis

Subject Co-ordinator - Prof. Smita Srivastava

Co-ordinating Institute - IIT - Madras

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

Lecture 1 - Introduction to the course - Part 1  
Lecture 2 - Introduction to the course - Part 2  
Lecture 3 - Design of Batch Bioreactors - Part 1  
Lecture 4 - Design of Batch Bioreactors - Part 2  
Lecture 5 - Design of Batch Bioreactors - Part 3  
Lecture 6 - Design of Batch Bioreactors - Part 4  
Lecture 7 - Design of Batch Bioreactors - Practice problems  
Lecture 8 - Design of Fed Batch bioreactors - Part 1  
Lecture 9 - Design of Fed Batch bioreactors - Part 2  
Lecture 10 - Design of Fed Batch bioreactors - Practice problems - Part 1  
Lecture 11 - Design of Fed Batch bioreactors - Practice Problems - Part 2  
Lecture 12 - Design of Fed Batch bioreactors - Practice Problems - Part 3  
Lecture 13 - Design of Continuous Bioreactors - Part 1  
Lecture 14 - Design of Continuous Bioreactors - Part 2  
Lecture 15 - Design of Continuous Bioreactors - Part 3  
Lecture 16 - Design of Continuous bioreactors - Practice Problems - Part 1  
Lecture 17 - Design of Continuous bioreactors - Practice Problems - Part 1  
Lecture 18 - Design of Continuous bioreactors - Practice Problems - Part 2  
Lecture 19 - Mass Transfer in Bioreactors - Part 1  
Lecture 20 - Mass Transfer in Bioreactors - Part 2  
Lecture 21 - Mass Transfer in Bioreactors - Part 3  
Lecture 22 - Rheology of fluids  
Lecture 23 - Mass Transfer in Bioreactors - Practice Problems  
Lecture 24 - Heterogeneous reactions in Bioreactors - Part 1  
Lecture 25 - Heterogeneous reactions in Bioreactors - Part 2  
Lecture 26 - Heterogeneous reactions in Bioreactors - Part 3  
Lecture 27 - Heterogeneous reactions in Bioreactors - Practice Problems  
Lecture 28 - Heat Transfer Operations in Bioreactors - Part 1  
Lecture 29 - Heat Transfer Operations in Bioreactors - Part 2

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- Lecture 30 - Heat Transfer Operations in Bioreactors - Part 3
- Lecture 31 - Heat Transfer Operations in Bioreactors - Part 4
- Lecture 32 - Heat Transfer Operations in Bioreactors - Practice Problems
- Lecture 33 - Scale up of Bioreactors - Part 1
- Lecture 34 - Scale up of Bioreactors - Part 2
- Lecture 35 - Scale up of Bioreactors - Part 3
- Lecture 36 - Scale up of Bioreactors - Part 4
- Lecture 37 - Scale up of Bioreactors - Practice Problems
- Lecture 38 - Non-ideal reactors: design and analysis - Part 1
- Lecture 39 - Non-ideal reactors: design and analysis - Part 2
- Lecture 40 - Non-ideal reactors: design and analysis - Practice Problems