

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

NPTEL Video Course - Biotechnology - Downstream Processing

Subject Co-ordinator - Prof. Mukesh Doble

Co-ordinating Institute - IIT - Madras

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

- Lecture 1 - Introduction
- Lecture 2 - Mass balance, Heat Balance, flow sheet
- Lecture 3 - Costing
- Lecture 4 - Costing (continued), Physical and chemical principles in Down stream
- Lecture 5 - Problems in Mass balance, flow sheet
- Lecture 6 - Cell Breakage
- Lecture 7 - Cell breakage (Continued...)
- Lecture 8 - Solid Liquid Separation
- Lecture 9 - Solid Liquid Separation (Continued...)
- Lecture 10 - Solid Liquid separation-problems
- Lecture 11 - Pre-treatment and Filters
- Lecture 12 - Adsorption
- Lecture 13 - Adsorption
- Lecture 14 - Adsorption
- Lecture 15 - Adsorption
- Lecture 16 - Liquid-Liquid Extraction
- Lecture 17 - Liquid-Liquid Extraction
- Lecture 18 - Liquid-Liquid Extraction
- Lecture 19 - Liquid liquid extraction
- Lecture 20 - Reversed micellar and aqueous two phase extraction
- Lecture 21 - Membranes
- Lecture 22 - Membranes
- Lecture 23 - Membranes
- Lecture 24 - Membranes
- Lecture 25 - Precipitation
- Lecture 26 - Chromatography
- Lecture 27 - Chromatography
- Lecture 28 - Chromatography
- Lecture 29 - Chromatography

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- Lecture 30 - Chromatography
- Lecture 31 - Chromatography
- Lecture 32 - Chromatography
- Lecture 33 - Crystallisation
- Lecture 34 - Drying
- Lecture 35 - Drying and distillation
- Lecture 36 - Future trends