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

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NPTEL Video Course - Biotechnology - NOC: Industrial Biotechnology
Subject Co-ordinator - Prof. Debabrata Das
Co-ordinating Institute - IIT - Kharagpur
Sub-Titles - Available / Unavailable | MP3 Audio Lectures - Available / Unavailable
Lecture 1 - Industrial Biotechnology
Lecture 2 - Development of industrial strain
Lecture 3 - Medium characteristics and biochemical pathways
Lecture 4 - Chemical reaction kinetics
Lecture 5 - Chemical reaction analysis (Continued...)
Lecture 6 - Different types of reactors
Lecture 7 - Reactor analysis
Lecture 8 - Reactor analysis (Continued...)
Lecture 9 - Stoichiometry of bioprocesses
Lecture 10 - Stoichiometry of bioprocesses (Continued...)
Lecture 11 - Enzymatic reaction Kinetics
Lecture 12 - Enzymatic reaction Kinetics (Continued...)
Lecture 13 - Immobilization techniques
Lecture 14 - Immobilization techniques (Continued...)
Lecture 15 - Life cycle of the microbial cell, Microbial growth kinetics, product formation and substrate dec
Lecture 16 - Microbial growth kinetics, product formation and substrate degradation (Continued...)
Lecture 17 - Microbial growth kinetics, product formation and substrate degradation (Continued...)
Lecture 18 - Overview of the fermenter
Lecture 19 - Flow diagrams and pumps and valves used in fermentation industries
Lecture 20 - Flow diagrams and pumps and valves used in fermentation industries (Continued...)
Lecture 21 - Upstream processing
Lecture 22 - Upstream processing
Lecture 23 - Upstream processing
Lecture 24 - Downstream processing
Lecture 25 - Downstream processing
Lecture 26 - Downstream processing
Lecture 27 - Ethanol fermentation
Lecture 28 - Ethanol fermentation (Continued...)
Lecture 29 - Brewing industry
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Lecture 30 - Brewing industry (Continued...)
Lecture 31 - Wine industry
Lecture 32 - Vinegar production
Lecture 33 - Citric acid production
Lecture 34 - Citric acid production (Continued...)
Lecture 35 - Citric acid production (Continued...)
Lecture 36 - Lactic acid production
Lecture 37 - Lactic acid production (Continued...)
Lecture 38 - Glutamic acid production
Lecture 39 - Penicillin production
Lecture 40 - Penicillin production (Continued...)
Lecture 41 - Cephalosporin production
Lecture 42 - Streptomycin production
Lecture 43 - Bakerâ s yeast fermentation
Lecture 44 - Bakerâ s yeast fermentation (Continued...)
Lecture 45 - Fodder yeast production
Lecture 46 - Spirulina production
Lecture 47 - Alpha amylase production
Lecture 48 - High fructose corn syrup production
Lecture 49 - Metal leaching
Lecture 50 - Cheese production
Lecture 51 - Cheese production (Continued...)
Lecture 52 - Biodiesel production
Lecture 53 - Butanol production
Lecture 54 - Biofertilizer
Lecture 55 - Aerobic effluent treatment process
Lecture 56 - Aerobic effluent treatment process (Continued...)
Lecture 57 - Anaerobic effluent treatment process
Lecture 58 - Anaerobic effluent treatment process
Lecture 59 - 10 m<sup>3</sup> Pilot Plant operation for Biohydrogen production
Lecture 60 - Summary and conclusion
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