

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

NPTEL Video Course - Agriculture - NOC:Advanced Aquaculture Technology

Subject Co-ordinator - Prof. Gourav Dhar Bhowmick

Co-ordinating Institute - IIT - Kharagpur

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

- Lecture 1 - Introduction
- Lecture 2 - Aquaculture systems and input factors
- Lecture 3 - Important species in aquaculture
- Lecture 4 - Propagation; Water budget
- Lecture 5 - Conservation strategies
- Lecture 6 - Transformation of open culture to closed high-tech technologies
- Lecture 7 - Intensive farming in high-tech tanks
- Lecture 8 - Re-circulatory system
- Lecture 9 - Flow-through system
- Lecture 10 - Raceway culture
- Lecture 11 - Polyculture, IMTA
- Lecture 12 - Coastal aquaculture
- Lecture 13 - Mariculture
- Lecture 14 - Algal Culture
- Lecture 15 - Seaweed Culture; Pearl Culture
- Lecture 16 - Introduction to freshwater prawn culture
- Lecture 17 - Introduction to shrimp culture
- Lecture 18 - Introduction to shrimp culture (Continued...)
- Lecture 19 - Introduction to crab culture
- Lecture 20 - Introduction to crab culture (Continued...)
- Lecture 21 - Larval rearing and hatcheries
- Lecture 22 - Design of hatchery for Carps
- Lecture 23 - Design of prawn hatchery
- Lecture 24 - Design of Shrimp hatchery
- Lecture 25 - Maintenance of optimum conditions
- Lecture 26 - Balanced diet
- Lecture 27 - Balanced diet and Feed formulation
- Lecture 28 - Feed formulation: Linear Programming
- Lecture 29 - Feed additives

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- Lecture 30 - Feed additives, Food conversion ratio (FCR)
- Lecture 31 - Important water quality parameters and criteria
- Lecture 32 - Aeration
- Lecture 33 - Aerator performance
- Lecture 34 - Important calculations on aerators
- Lecture 35 - Chemical treatment
- Lecture 36 - Overview of Wastewater Treatment Methods
- Lecture 37 - Overview of Wastewater Treatment Methods (Continued...)
- Lecture 38 - Bio-electrochemical system based wastewater treatment
- Lecture 39 - Bio-electrochemical system-based wastewater treatment (Continued...)
- Lecture 40 - Bio-electrochemical system-based wastewater treatment (Continued...)
- Lecture 41 - Organic Aquaculture Standards
- Lecture 42 - Wastewater-fed aquaculture
- Lecture 43 - Integrated farming
- Lecture 44 - Integrated farming (Continued...)
- Lecture 45 - Bio-floc Technology
- Lecture 46 - Green aquaculture
- Lecture 47 - Smart Aquaponic system
- Lecture 48 - Bioremediation
- Lecture 49 - Biofiltration
- Lecture 50 - Eco-labelling
- Lecture 51 - Fish and fish products preservation
- Lecture 52 - Fish and fish products preservation (Continued...)
- Lecture 53 - Fish by-products
- Lecture 54 - Fish by-products (Continued...)
- Lecture 55 - Zero waste recycling
- Lecture 56 - Impact of Climate Change on aquaculture
- Lecture 57 - Impact of Climate Change on aquaculture (Continued...)
- Lecture 58 - Mitigation and adaptive strategies
- Lecture 59 - Mitigation and adaptive strategies (Continued...)
- Lecture 60 - Mitigation and adaptive strategies (Continued...)
- Lecture 61 - Opportunities in Aquaculture sectors for the entrepreneurs from the coastal regions