

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

NPTEL Video Course - Multi Disciplinary - NOC:Designing Learner-Centric MOOCs

Subject Co-ordinator - Dr.Sameer Sahasrabudhe, Prof.Sahana Murthy, Prof.Sridhar Iyer, Dr.Jayakrishnan M.

Co-ordinating Institute - IIT - Bombay

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

Lecture 1 - Perceptions of MOOC
Lecture 2 - Learner Expectation
Lecture 3 - Learner Engagement
Lecture 4 - Course Introduction
Lecture 5 - Evolution of MOOCs
Lecture 6 - Known Challenges
Lecture 7 - Why LCM?
Lecture 8 - The LCM Model
Lecture 9 - What is an LeD?
Lecture 10 - Chunking a Lecture into LeD
Lecture 11 - Introducing Reflection Spot
Lecture 12 - Making Your Own LeD
Lecture 13 - Doâ s and Donâ ts - Part 1
Lecture 14 - Doâ s and Donâ ts - Part 2
Lecture 15 - LeDs Takeaway
Lecture 16 - Reflection Spot - Part 1
Lecture 17 - Reflection Spot - Part 2
Lecture 18 - What is an LbD?
Lecture 19 - Creating LbDs
Lecture 20 - Constructive Customized Feedback in LbDs
Lecture 21 - Giving Feedback for Open Ended Questions
Lecture 22 - Recommendations for effective LbDs
Lecture 23 - What is an LxT?
Lecture 24 - Creating LxTs
Lecture 25 - Creating an Assimilation Quiz
Lecture 26 - What is an LxI?
Lecture 27 - Creating LxIs with Reflection Quiz
Lecture 28 - LxI- Sharing Experiences
Lecture 29 - LxI- How to Achieve Learner-Learner Interaction?

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- Lecture 30 - LxI- Types of focus questions - 1
- Lecture 31 - LxI- Types of focus questions - 2
- Lecture 32 - Orchestrating your MOOC
- Lecture 33 - Orchestration Dynamics in LCM
- Lecture 34 - Assessment
- Lecture 35 - From Regular course to LCM
- Lecture 36 - Course Design in MOOC
- Lecture 37 - Maintaining Learner Connect
- Lecture 38 - Implementing the Learner-Centric Approach

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

NPTEL Video Course - Multi Disciplinary - NOC:Introduction to Learning Analytics

Subject Co-ordinator - Prof. Ramkumar Rajendran

Co-ordinating Institute - IIT - Bombay

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

Lecture 1 - Introduction to Learning Analytics

Lecture 2 - LA, EDM and Academic Analytics

Lecture 3 - Types of Learning Analytics - I

Lecture 4 - Types of Learning Analytics - II

Lecture 5 - Data Collection

Lecture 6 - Data Collection in TELE

Lecture 7 - Data collection in MOOC

Lecture 8 - Multichannel Data

Lecture 9 - Ethics and Data Privacy in LA

Lecture 10 - Descriptive Analytics

Lecture 11 - Data Visualization

Lecture 12 - YouTube Analytics Dashboard

Lecture 13 - MOOCs Analytics Dashboard

Lecture 14 - Predictive Analytics

Lecture 15 - Linear Regression

Lecture 16 - Weka demo and how to read the results

Lecture 17 - MOOC data for Course Project

Lecture 18 - Summary of the Course

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NPTEL Video Course - Multi Disciplinary - NOC:Designing Learner-Centric e-Learning in STEM Disciplines

Subject Co-ordinator - Prof.Sahana Murthy

Co-ordinating Institute - IIT - Bombay

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

- Lecture 1 - Course Preview
- Lecture 2 - What is this course about?
- Lecture 3 - Course Format_Learner Centric MOOC (LCM)
- Lecture 4 - E-Learning in STEM
- Lecture 5 - Making online Teaching Decisions
- Lecture 6 - Challenges in e-learning
- Lecture 7 - What is Learner-centric Approach?
- Lecture 8 - Promoting Learner Engagement with Content
- Lecture 9 - Why and How to Design Interactive Videos?
- Lecture 10 - What is an LeD?
- Lecture 11 - Learning by Doing (LbD)
- Lecture 12 - Articulation and Reflection
- Lecture 13 - Construct your Own Understanding
- Lecture 14 - Contextualized Learning
- Lecture 15 - Feedback to Learners
- Lecture 16 - Collaboration and Peer Learning
- Lecture 17 - Addressing Diversity
- Lecture 18 - Putting it All Together
- Lecture 19 - Selection and Analysis of Effective Technology
- Lecture 20 - Effective Integration of Technology
- Lecture 21 - Instructional Design in e-learning
- Lecture 22 - ADDIE Process of Instructional Design
- Lecture 23 - Constructive Alignment
- Lecture 24 - Implementing constructive alignment
- Lecture 25 - Multimedia Principle and Contiguity Principle
- Lecture 26 - Modality Principle and Redundancy Principle
- Lecture 27 - Coherence Principle
- Lecture 28 - Segmenting and Personalization Principles
- Lecture 29 - Visual Communication Strategies for E-content

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- Lecture 30 - Forms of Learning
- Lecture 31 - Integrating LC Elements in E-content
- Lecture 32 - E-learning Design Process
- Lecture 33 - Closing

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

NPTEL Video Course - Multi Disciplinary - NOC:Sustainable and Affordable Sanitation Solutions for Small Towns

Subject Co-ordinator - Prof. N.C Narayanan

Co-ordinating Institute - IIT - Bombay

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

Lecture 1 - Introduction to the Issue of Sanitation

Lecture 2 - Overview of Sanitation in the country

Lecture 3 - Centralised or Decentralised?

Lecture 4 - Need for Participatory Planning

Lecture 5 - Context setting for the Alappuzha Project

Lecture 6 - Environmental Policy

Lecture 7 - Environmental Impact Assessment 2006 and National Urban Sanitation Plan

Lecture 8 - Environmental Governance - Challenges and Alternatives

Lecture 9 - Municipal Solid Waste Management

Lecture 10 - MSWM - Status, Policy, governance structure

Lecture 11 - Integrated Municipal Solid Waste Management

Lecture 12 - Plastic Waste Management

Lecture 13 - Municipal Solid Waste Management in Alappuzha

Lecture 14 - Liquid Waste Management - an Overview

Lecture 15 - Introduction to Faecal Sludge Management

Lecture 16 - Faecal Sludge Management for Alappuzha town

Lecture 17 - Introduction to liquid waste treatment technologies

Lecture 18 - Decentralized Waste Water Treatment system - An Introduction

Lecture 19 - Case studies - Decentralised waste water treatment

Lecture 20 - Decentralized waste water treatment systems plan for Alappuzha

Lecture 21 - History of Sanitation in Alappuzha

Lecture 22 - Organic waste management in Alappuzha

Lecture 23 - Inorganic waste management - Role of Kudumbashree and Haritha Karma Sena

Lecture 24 - Youth engagement for reclaiming canals

Lecture 25 - Significance of institution building in reclaiming canals

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NPTEL Video Course - Multi Disciplinary - NOC:Engineering Statistics

Subject Co-ordinator - Prof. Manjesh Kumar Hanawal

Co-ordinating Institute - IIT - Bombay

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

- Lecture 1 - Introduction to Probability
- Lecture 2 - Consequences of Axioms
- Lecture 3 - Interpretation of Probability
- Lecture 4 - Total Probability law and Baye's Theorem - I
- Lecture 5 - Total Probability law and Baye's Theorem - II
- Lecture 6 - Random variables and Cumulative Density Function
- Lecture 7 - Discrete and Continuous random variables - I
- Lecture 8 - Discrete and Continuous random variables - II
- Lecture 9 - Expectation and Variance
- Lecture 10 - Function of Random variables
- Lecture 11 - Generating RVs, Joint Distribution of RVs
- Lecture 12 - Joint Distribution of RVs and Marginal densities
- Lecture 13 - Covariance of Random variables
- Lecture 14 - Moment Generating Functions
- Lecture 15 - Conditional PMF and PDF
- Lecture 16 - Law of Large numbers, Central Limit Theorem
- Lecture 17 - Application of Central Limit Theorem - I
- Lecture 18 - Application of Central Limit Theorem - II
- Lecture 19 - Gamma and Chi-square distributions
- Lecture 20 - Beta distributions and Exponential families
- Lecture 21 - Random Sampling, Sample mean and Sample variance
- Lecture 22 - Sampling from Gaussian distribution and t-distribution
- Lecture 23 - Student's t- distribution
- Lecture 24 - F-distribution and its properties
- Lecture 25 - Convergence of Random variables and Consistency
- Lecture 26 - Order statistics, Median and Percentiles
- Lecture 27 - Generating random sample-Direct method
- Lecture 28 - Generating random sample-Indirect method
- Lecture 29 - Introduction to python

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- Lecture 30 - Python- Loops and Numpy library
- Lecture 31 - Sufficiency Principles and Sufficient Statistics
- Lecture 32 - Sufficient Statistics and Characterization of Sufficient Statistics
- Lecture 33 - Characterization of Sufficient Statistics and Factorization Theorem
- Lecture 34 - Example of Factorization Theorem, Minimal Sufficient Statistics
- Lecture 35 - Minimal sufficient statistics
- Lecture 36 - Test for minimal sufficient statistics with examples, Ancillary Statistics
- Lecture 37 - Likelihood Functions, Maximum Likelihood Estimator
- Lecture 38 - Method of moments, Baye's Estimator
- Lecture 39 - Evaluating Estimator, Cramer Rao Bound, Fisher Information
- Lecture 40 - Evaluating Estimator, Cramer Rao Bound, Fisher Information (Continued...)
- Lecture 41 - Hypothesis Testing, Likelihood Ratio Test
- Lecture 42 - Hypothesis Testing, Bayes Test
- Lecture 43 - Type I and II errors, Power Functions
- Lecture 44 - Type I and II errors, Power Functions (Continued...)
- Lecture 45 - Calculations of Power Functions
- Lecture 46 - Unbiased Test, Uniformly Most Powerful Test, Neyman- Pearson Lemma, Interval Estimation
- Lecture 47 - Interval Estimation
- Lecture 48 - Interval Estimation (Continued...)
- Lecture 49 - Construction of Confidence Intervals from tests
- Lecture 50 - Python- numpy and pandas functions II
- Lecture 51 - Tutology of tests and confidence intervals
- Lecture 52 - Tutology of tests and confidence intervals (Continued...)
- Lecture 53 - p-value, p-test of significance of a statistical test
- Lecture 54 - t-test and F-test, ANOVA
- Lecture 55 - Non-parametric test, Goodness of fit, Chi-squared test
- Lecture 56 - Distribution of Chi-squared test statistics
- Lecture 57 - Kolmogorov-Smirnov test
- Lecture 58 - Lilliefors's test and Explorator Data Analysis, Q-Q Plot and P-P Plot
- Lecture 59 - Generating random samples using Python, Hypothesis Testing using Python
- Lecture 60 - Generating random samples using Python, Hypothesis Testing using Python (Continued...)

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NPTEL Video Course - Multi Disciplinary - NOC:Similitude and Approximations in Engineering

Subject Co-ordinator - Vijay Gupta

Co-ordinating Institute - IIT - Delhi

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

Lecture 1
Lecture 2
Lecture 3
Lecture 4
Lecture 5
Lecture 6
Lecture 7
Lecture 8
Lecture 9
Lecture 10
Lecture 11
Lecture 12
Lecture 13
Lecture 14
Lecture 15
Lecture 16
Lecture 17
Lecture 18
Lecture 19
Lecture 20
Lecture 21
Lecture 22
Lecture 23
Lecture 24
Lecture 25
Lecture 26
Lecture 27

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

NPTEL Video Course - Multi Disciplinary - NOC:Fundamental of Fluid Mechanics for Chemical and Biomedical Engi

Subject Co-ordinator - Unknown

Co-ordinating Institute - IIT - Guwahati

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

- Lecture 1 - Introduction
- Lecture 2 - Fluid Mechanics and Chemical Engineering
- Lecture 3 - Biomedical Applications of Fluid Mechanics
- Lecture 4 - Vectors: A review
- Lecture 5 - Introductory Concepts - 1
- Lecture 6 - Introductory Concepts - 2
- Lecture 7 - Flow Visualisation
- Lecture 8 - Dimensional Analysis - Pi Theorem
- Lecture 9 - Dimensional Analysis- Ipsen Method
- Lecture 10 - Similitude
- Lecture 11 - Pressure Distribution in a Static Fluid
- Lecture 12 - Force of Submerged Surfaces
- Lecture 13 - Buoyancy
- Lecture 14 - Surface Tension
- Lecture 15 - Reynolds Transport Theorem
- Lecture 16 - Mass Conservation
- Lecture 17 - Momentum Conservation - I
- Lecture 18 - Momentum Conservation - II
- Lecture 19 - Energy Conservation
- Lecture 20 - Fluid Translation
- Lecture 21 - Fluid Rotation and Deformation
- Lecture 22 - Mass Conservation: Derivation
- Lecture 23 - Mass Conservation: Cylindrical Coordinates
- Lecture 24 - Navier Stokes Equations: Derivation
- Lecture 25 - Flow Between Two Parallel Plates
- Lecture 26 - Flow in a Falling Liquid Film
- Lecture 27 - Fully-developed flow in a circular channel
- Lecture 28 - Flow between two concentric cylinders
- Lecture 29 - Lubrication Approximation

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- Lecture 30 - Creeping Flows
- Lecture 31 - Equation of Motion in Streamline Coordinates
- Lecture 32 - Irrotational Flow
- Lecture 33 - Bernoulli's Equation and Flow Measurement
- Lecture 34 - Boundary Layers
- Lecture 35 - Momentum Integral Equation
- Lecture 36 - Flow Separation and Drag
- Lecture 37 - Introduction to Turbulence
- Lecture 38 - Turbulent Flow in a Pipe
- Lecture 39 - Turbulent Boundary Layers
- Lecture 40 - Flow in Pipes: Major Losses
- Lecture 41 - Flow in Pipes: Minor Losses
- Lecture 42 - Flow in Pipes: Types of Problems
- Lecture 43 - Cavitation and NPSH

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

NPTEL Video Course - Multi Disciplinary - NOC:Sustainable Power Generation Systems

Subject Co-ordinator - Dr. Pankaj Kalita

Co-ordinating Institute - IIT - Guwahati

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

- Lecture 1 - Introductory lectuer
- Lecture 2 - Fundamentals of solar thermal collector
- Lecture 3 - Low temperature solar thermal power plant
- Lecture 4 - Medium and high temperature solar thermal power plant
- Lecture 5 - Thermal analysis of solar thermal power plant
- Lecture 6 - Fundamentals and concept of solar PV power plant
- Lecture 7 - Offgrid solar photovoltaic systems
- Lecture 8 - Offgrid solar photovoltaic systems deisgn
- Lecture 9 - Grid connected solar photovoltaic systems
- Lecture 10 - Performance of grid connected solar photovoltaic systems
- Lecture 11 - Introduction to wind power generation
- Lecture 12 - Wind data analysis
- Lecture 13 - Performance parameters and blade geometry
- Lecture 14 - Betz limit and optimum tip speed ratio
- Lecture 15 - Design of wind farm
- Lecture 16 - Fundamentals and working principle
- Lecture 17 - Analysis of small hydro power generation
- Lecture 18 - Introduction to biomass power generation
- Lecture 19 - Biochemical conversion for electricity generation
- Lecture 20 - Thermochemical conversion of solid fuels and gasification system
- Lecture 21 - Hydrogen energy
- Lecture 22 - Fuel cells technologies - Part I
- Lecture 23 - Fuel cells technologies - Part II
- Lecture 24 - Hydrogen energy tutorial
- Lecture 25 - Fundamentals and methods of geothermal energy harvesting
- Lecture 26 - Analysis of geothermal plant and resources
- Lecture 27 - Fundamentals and working of ocean thermal energy conversion systems
- Lecture 28 - Analysis of close rankine cycle OTEC system
- Lecture 29 - Fundamentals and working of tidal energy conversion systems

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- Lecture 30 - Fundamentals and working of wave energy conversion systems
- Lecture 31 - Overview and analysis of thermal energy storage
- Lecture 32 - Fundamentals and analysis of mechanical energy storage system
- Lecture 33 - Fundamentals and analysis of electro chemical energy storage system
- Lecture 34 - Summary and numerical exercise
- Lecture 35 - Fundamentals and methodology of evaluation of energy economics
- Lecture 36 - Case study involving energy economics of biomass power generation system and LCA
- Lecture 37 - Course Summary

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

NPTEL Video Course - Multi Disciplinary - NOC:Foundation Certificate in Palliative Care

Subject Co-ordinator - Prof. Geeta Joshi, Prof. Piyush Gupta

Co-ordinating Institute - IIT - Kanpur

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

- Lecture 1 - Course Intro
- Lecture 2 - Discussion on Course
- Lecture 3 - Faculty Intro: Dr. Geeta Joshi and Dr. Piyush Gupta
- Lecture 4 - Faculty Intro: Dr. Abhijit Dam
- Lecture 5 - Principles of Palliative Care
- Lecture 6 - Integrating Science
- Lecture 7 - Growth of Palliative Care
- Lecture 8 - Holistic Care
- Lecture 9 - Palliative Care Concepts - Interview
- Lecture 10 - National Scenario of Palliative Care
- Lecture 11 - National Scenario
- Lecture 12 - WHO Perspective
- Lecture 13 - Allopathy
- Lecture 14 - Ayush Ministry
- Lecture 15 - Ayurveda
- Lecture 16 - Ayur Siddha Nature Yoga
- Lecture 17 - Naturopathy
- Lecture 18 - NHAM
- Lecture 19 - Ayush Modules
- Lecture 20 - Unani
- Lecture 21 - Homeopathy
- Lecture 22 - PC Delivery
- Lecture 23 - PC Delivery
- Lecture 24 - Practicing PC
- Lecture 25 - Home Based PC
- Lecture 26 - Home Care
- Lecture 27 - Home Nursing
- Lecture 28 - Hospice
- Lecture 29 - Caregiver

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- Lecture 30 - Caregiver
- Lecture 31 - Integrative PC
- Lecture 32 - AYUSH in PC
- Lecture 33 - Siddha in PC
- Lecture 34 - Siddha
- Lecture 35 - Siddha
- Lecture 36 - Intro Yoga
- Lecture 37 - Yoga
- Lecture 38 - Yoga and Stress
- Lecture 39 - Introduction Pain
- Lecture 40 - Classification Pain
- Lecture 41 - Pain Assessment
- Lecture 42 - Total Pain
- Lecture 43 - Hospice Total Pain
- Lecture 44 - WHO 3 Step Ladder
- Lecture 45 - Pain Management
- Lecture 46 - Cancer Pain
- Lecture 47 - Pain Assessment
- Lecture 48 - Symptom Assessment
- Lecture 49 - Holistic Symptom Management
- Lecture 50 - Constipation
- Lecture 51 - Delirium
- Lecture 52 - Dyspnea
- Lecture 53 - Hygiene Bedsores
- Lecture 54 - Pressure Sore
- Lecture 55 - Secretions
- Lecture 56 - Fungating
- Lecture 57 - Fungating Wound
- Lecture 58 - Fungating pdf
- Lecture 59 - Oral NGT Catheter
- Lecture 60 - Oral NGT Cathe pdf
- Lecture 61 - Nutrition
- Lecture 62 - Communication
- Lecture 63 - Communications
- Lecture 64 - Communication in PC
- Lecture 65 - Body Language
- Lecture 66 - Communicating Patients
- Lecture 67 - Good and Bad Communication
- Lecture 68 - Good and Bad Communication

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- Lecture 69 - Communication Bridging Gap
- Lecture 70 - Overview of Psychological Reactions
- Lecture 71 - Psychological Reactions
- Lecture 72 - Psychological Aspects
- Lecture 73 - Communicating with Patient
- Lecture 74 - Breaking Bad News
- Lecture 75 - Distress and Denial
- Lecture 76 - BBN Collusion Denial
- Lecture 77 - Emotional Reactions Breaking Denial
- Lecture 78 - Communication Interview
- Lecture 79 - Psychological Aspects
- Lecture 80 - Anxiety Depression Distress
- Lecture 81 - Counsellor in PC
- Lecture 82 - Caregiver Burnout Yoga
- Lecture 83 - PC in Elderly
- Lecture 84 - Spirituality
- Lecture 85 - Spirituality and Religion
- Lecture 86 - Laws of Karma
- Lecture 87 - Last Days of Life
- Lecture 88 - Care of Dying and Bereavement
- Lecture 89 - Quality of Death
- Lecture 90 - Death
- Lecture 91 - Grief and Bereavement
- Lecture 92 - Ethics in PC
- Lecture 93 - Volunteering
- Lecture 94 - Volunteers
- Lecture 95 - Volunteers
- Lecture 96 - Community
- Lecture 97 - Community Based PC
- Lecture 98 - Community Based PC
- Lecture 99 - Network Neighborhood
- Lecture 100 - Nurse in Home Care
- Lecture 101 - Care of Dying
- Lecture 102 - Safety Precaution
- Lecture 103 - Self Care
- Lecture 104 - Respite Care
- Lecture 105 - IT in PC
- Lecture 106 - COC
- Lecture 107 - Sandhi

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- Lecture 108 - Cancer Aid Society
- Lecture 109 - Alpha
- Lecture 110 - PC Services in Punjab

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

NPTEL Video Course - Multi Disciplinary - NOC:Fuzzy Logic and Neural Networks

Subject Co-ordinator - Prof. Dilip Kumar Pratihari

Co-ordinating Institute - IIT - Kharagpur

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

- Lecture 1 - Introduction to Fuzzy Sets
- Lecture 2 - Introduction to Fuzzy Sets (Continued...)
- Lecture 3 - Introduction to Fuzzy Sets (Continued...)
- Lecture 4 - Introduction to Fuzzy Sets (Continued...)
- Lecture 5 - Introduction to Fuzzy Sets (Continued...)
- Lecture 6 - Introduction to Fuzzy Sets (Continued...)
- Lecture 7 - Applications of Fuzzy Sets
- Lecture 8 - Applications of Fuzzy Sets (Continued...)
- Lecture 9 - Applications of Fuzzy Sets (Continued...)
- Lecture 10 - Applications of Fuzzy Sets (Continued...)
- Lecture 11 - Applications of Fuzzy Sets (Continued...)
- Lecture 12 - Applications of Fuzzy Sets (Continued...)
- Lecture 13 - Applications of Fuzzy Sets (Continued...)
- Lecture 14 - Applications of Fuzzy Sets (Continued...)
- Lecture 15 - Applications of Fuzzy Sets (Continued...)
- Lecture 16 - Applications of Fuzzy Sets (Continued...)
- Lecture 17 - Optimization of Fuzzy Reasoning and Clustering Tool
- Lecture 18 - Optimization of Fuzzy Reasoning and Clustering Tool (Continued...)
- Lecture 19 - Optimization of Fuzzy Reasoning and Clustering Tool (Continued...)
- Lecture 20 - Optimization of Fuzzy Reasoning and Clustering Tool (Continued...)
- Lecture 21 - Some Examples of Neural Networks
- Lecture 22 - Some Examples of Neural Networks (Continued...)
- Lecture 23 - Some Examples of Neural Networks (Continued...)
- Lecture 24 - Some Examples of Neural Networks (Continued...)
- Lecture 25 - Some Examples of Neural Networks (Continued...)
- Lecture 26 - Some Examples of Neural Networks (Continued...)
- Lecture 27 - Some Examples of Neural Networks (Continued...)
- Lecture 28 - Some Examples of Neural Networks (Continued...)
- Lecture 29 - Some Examples of Neural Networks (Continued...)

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- Lecture 30 - Some Examples of Neural Networks (Continued...)
- Lecture 31 - Optimal Designs of Neural Networks
- Lecture 32 - Optimal Designs of Neural Networks (Continued...)
- Lecture 33 - Neuro-Fuzzy System
- Lecture 34 - Neuro-Fuzzy System (Continued...)
- Lecture 35 - Neuro-Fuzzy System (Continued...)
- Lecture 36 - Neuro-Fuzzy System (Continued...)
- Lecture 37 - Concepts of Soft Computing and Expert Systems
- Lecture 38 - Concepts of Soft Computing and Expert Systems (Continued...)
- Lecture 39 - A Few Applications
- Lecture 40 - A Few Applications (Continued...)
- Lecture 41 - A Few Applications (Continued...)
- Lecture 42 - A Few Applications (Continued...)

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NPTEL Video Course - Multi Disciplinary - NOC:Entrepreneurship Essentials

Subject Co-ordinator - Prof. Manoj Kumar Mondal

Co-ordinating Institute - IIT - Kharagpur

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

- Lecture 1 - Economic Contributions of Entrepreneurs
- Lecture 2 - Definition, Motivation and Types of Entrepreneurship
- Lecture 3 - Vision, Mission and Values
- Lecture 4 - Entrepreneurial Qualities
- Lecture 5 - Two Inspiring Stories
- Lecture 6 - Myths and Realities around Entrepreneurship
- Lecture 7 - Causes of Failure of Startups
- Lecture 8 - Why Startups Fail (Continued...)
- Lecture 9 - Forms of Legal Entities
- Lecture 10 - Factors Driving Competitive Advantages
- Lecture 11 - Marketing for Startups - I
- Lecture 12 - Marketing for Startups - II
- Lecture 13 - Marketing for Startups - III
- Lecture 14 - Marketing Research
- Lecture 15 - Marketing Research (Continued...)
- Lecture 16 - Business Model Canvas
- Lecture 17 - Value Proposition Canvas
- Lecture 18 - Illustration of Business Model Canvas
- Lecture 19 - Features of Winning Business Models
- Lecture 20 - Business Model Innovation
- Lecture 21 - Identifying Opportunities Based on Trend
- Lecture 22 - Circle of Competence and Effectuation
- Lecture 23 - Lean Startup - I
- Lecture 24 - Lean Startup - II
- Lecture 25 - Lean Startup - III
- Lecture 26 - Design and Innovation - I
- Lecture 27 - Design and Innovation - II
- Lecture 28 - Design and Innovation - III
- Lecture 29 - Design and Innovation - IV

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- Lecture 30 - Design and Innovation - V
- Lecture 31 - Introduction to Financial Statements
- Lecture 32 - Introduction to Financial Statements (Continued...)
- Lecture 33 - Introduction to Financial Statements (Continued...)
- Lecture 34 - Introduction to Financial Statements (Continued...)
- Lecture 35 - Introduction to Financial Statements (Continued...)
- Lecture 36 - Introduction to Financial Statements (Continued...)
- Lecture 37 - Introduction to Financial Statements (Continued...)
- Lecture 38 - Depreciation and Amortization and Treatment of Capital Gain or Loss from Sale of Fixed Asset
- Lecture 39 - Cost, Volume, Profit
- Lecture 40 - Cost, Volume, Profit
- Lecture 41 - Founding Team and Early Recruits
- Lecture 42 - Business Plan - I
- Lecture 43 - Business Plan - II
- Lecture 44 - Pitching the Business Plan - I
- Lecture 45 - Pitching the Business Plan - II
- Lecture 46 - Funding New Venture - I
- Lecture 47 - Funding New Venture - II
- Lecture 48 - Funding New Venture - III
- Lecture 49 - Funding New Venture - IV
- Lecture 50 - Funding New Venture - V
- Lecture 51 - Some Dos and Donts
- Lecture 52 - Go-To-Market Strategies - I
- Lecture 53 - Go-To-Market Strategies - II
- Lecture 54 - Capital Budgeting Decisions
- Lecture 55 - Capital Budgeting Decisions (Continued...)
- Lecture 56 - Start up Valuation - I
- Lecture 57 - Start up Valuation - II
- Lecture 58 - Human Resource Management - I
- Lecture 59 - Human Resource Management - II
- Lecture 60 - Growth Strategies

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

NPTEL Video Course - Multi Disciplinary - NOC:Roadmap for Patent Creation

Subject Co-ordinator - Prof. Gouri Gargate

Co-ordinating Institute - IIT - Kharagpur

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

- Lecture 1 - Roadmap for patent creation - Introduction
- Lecture 2 - Roadmap for patent creation - Property and IP
- Lecture 3 - Roadmap for patent creation - IPR
- Lecture 4 - Roadmap for patent creation - IP and future areas
- Lecture 5 - Roadmap for patent creation - Patent - Introduction
- Lecture 6 - Patent searching and analysis
- Lecture 7 - Patent-Definition
- Lecture 8 - Novelty
- Lecture 9 - Non obviousness
- Lecture 10 - Industrial application
- Lecture 11 - Parts of patent document
- Lecture 12 - Terminologies and codes used in a patent document
- Lecture 13 - How to read a patent ? - I
- Lecture 14 - How to read a patent ? - II
- Lecture 15 - How to read a patent ? - III
- Lecture 16 - Roadmap for patent creation - IP identification tool
- Lecture 17 - Roadmap for patent creation - Patentability tool
- Lecture 18 - Roadmap for patent creation - IP audit framework
- Lecture 19 - Roadmap for patent creation - Public patent databases
- Lecture 20 - Roadmap for patent creation - Capsule version
- Lecture 21 - Types of patent
- Lecture 22 - Patent filing procedure in India
- Lecture 23 - Patent timelines - India and PCT
- Lecture 24 - Inventions not patent in India
- Lecture 25 - Indicators for patentability
- Lecture 26 - Use of patent database for research/project topic identification
- Lecture 27 - Importance of laboratory notebook
- Lecture 28 - In which technical category my invention falls - IPC
- Lecture 29 - Patent - Statutory differences between India, Europe and USA

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

- Lecture 30 - Identification of inventor and applicant and their rights
- Lecture 31 - Developing your own IP system
- Lecture 32 - When to publish and when to patent (confidentiality)
- Lecture 33 - Statutory exceptions (anticipation)
- Lecture 34 - Procedure for patent filing (Forms and fees)
- Lecture 35 - Interaction with IP attorney (Initial drafting, FER reply and hearing)
- Lecture 36 - Research/project planning
- Lecture 37 - Post patent filing requirements
- Lecture 38 - Patent commercialization
- Lecture 39 - Capsule version

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

NPTEL Video Course - Multi Disciplinary - NOC:Accreditation and Outcome based Learning

Subject Co-ordinator - Prof. Shyamal Kumar Das Mandal

Co-ordinating Institute - IIT - Kharagpur

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

Lecture 1 - Introduction

Lecture 2 - Challenges and Needs of 21st Century Education

Lecture 3 - Accreditation

Lecture 4 - Accreditation (Continued...)

Lecture 5 - Outcome based Learning

Lecture 6 - Important Steps in Outcome based education

Lecture 7 - Introduction to Taxonomies of Learning and Cognitive Domains of Learning

Lecture 8 - Psychomotor Domain and Affective Domain of Learning

Lecture 9 - Instructional Objectives or Outcome

Lecture 10 - Need and Use of Instructional Objectives or Outcome

Lecture 11 - Example of Different Instructional Objectives or Outcome and their Cognitive Level

Lecture 12 - Outcome-based Curriculum Design

Lecture 13 - Outcome-based Curriculum Design (Continued...)

Lecture 14 - Outcome-based Curriculum Design software framework

Lecture 15 - Course outcome, Module outcome and lecture/unit outcome and teaching learning process

Lecture 16 - Mapping of outcome based curriculum with Graduate attribute

Lecture 17 - Introduction to Assessment and Evaluation

Lecture 18 - Formative Assessment and Summative Assessments

Lecture 19 - Test Item analysis

Lecture 20 - Test Item analysis (Continued...)

Lecture 21 - Evaluation Rubrics

Lecture 22 - Mission and Vision, Program Educational Objectives (PEOs), Program Outcome (PO) and their Consis

Lecture 23 - Mapping of course outcome and Program Outcome

Lecture 24 - Attainment of Program outcome and course outcome

Lecture 25 - Calculation of direct attainment

Lecture 26 - Calculation of Indirect Attainment

Lecture 27 - Introduction to Tutoed Video Instruction (TVI)

Lecture 28 - TVI Learning Improvement Data - as reported in literature

Lecture 29 - Use of TVI as ELNET-3L program

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

- Lecture 30 - Lessons on Good Teaching from ELNET-3L
- Lecture 31 - Evaluation of Teaching Quality
- Lecture 32 - Evaluation of Teaching Quality - A Research Proposal
- Lecture 33 - Evaluation of Teaching Quality - A Research Proposal (Continued...)
- Lecture 34 - Evaluation of Teaching Quality - A Research Proposal (Continued...)
- Lecture 35 - Assessment and Evaluation - to Improve Teaching
- Lecture 36 - Item Analysis - Theory and Practice
- Lecture 37 - Learning Styles and Learning Approaches
- Lecture 38 - Good Teaching Attributes and Characteristics
- Lecture 39 - Teacher Effectiveness Research
- Lecture 40 - Teacher Effectiveness Research (Continued...)
- Lecture 41 - Teaching Learning Process using Outcome based Education

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

NPTEL Video Course - Multi Disciplinary - NOC:Introduction to Environmental Engineering and Science - Fundame

Subject Co-ordinator - Prof. Brajesh Kumar Dubey

Co-ordinating Institute - IIT - Kharagpur

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

Lecture 1 - Sustainability Concepts - Innovations and Challenges

Lecture 2 - Sustainability Concepts - Innovations and Challenges

Lecture 3 - Basics and Sustainability Concepts and Evolution

Lecture 4 - Engineering for Sustainability

Lecture 5 - Life Cycle Thinking and Circular Economy

Lecture 6 - Mass Concentration Units

Lecture 7 - Partial Pressure Units

Lecture 8 - Other Types of Units

Lecture 9 - Units (Continued...), Qualitative and Quantitative Measurements

Lecture 10 - Quantative Measurements Basics

Lecture 11 - Ecology

Lecture 12 - Energy Flow and Ecological Concepts

Lecture 13 - Population

Lecture 14 - Population, Consumption and Biodiversity

Lecture 15 - Environmental Chemistry

Lecture 16 - Mass Balance and Reactor Systems

Lecture 17 - Mass Balance in Continuous Reactor / Continuous Stirred Tank Reactor (CSTR) and Plug Flow Reactor

Lecture 18 - Plug Flow Reactor and Energy Flow

Lecture 19 - Energy Balance and Earth Overshot Day

Lecture 20 - Mass Transport Processes

Lecture 21 - Oxygen Demand in Environmental Systems

Lecture 22 - BOD Examples, Oxygen Levels in Surface Waters, COD

Lecture 23 - Environmental Health Basics and SDGs

Lecture 24 - Field Applications

Lecture 25 - Nutrient Cycle

Lecture 26 - Environmental Risk

Lecture 27 - Risk Assessment Steps and EIA Introduction

Lecture 28 - Environmental Risk Assessments with Concepts of EIA and LCA

Lecture 29 - Environmental Risk Assessments with Concepts of EIA and LCA (Continued...)

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

- Lecture 30 - Environmental Risk Assessments with Concepts of EIA and LCA (Continued...)
- Lecture 31 - Water Quantity
- Lecture 32 - Water Availability and Usage
- Lecture 33 - Population Forecasting
- Lecture 34 - Water Quality
- Lecture 35 - Water Quality (Continued...)
- Lecture 36 - Plain Sedimentation
- Lecture 37 - Coagulation
- Lecture 38 - Review of Sedimentation and Rapid Sand Filtration
- Lecture 39 - Disinfection and Water Supply
- Lecture 40 - Water Treatment Plant Visit
- Lecture 41 - Wastewater collection and characterization
- Lecture 42 - Sewerage System and Sewage Characteristics
- Lecture 43 - BOD Concepts and Preliminary Treatment of Wastewater
- Lecture 44 - Wastewater Treatment - I
- Lecture 45 - Activated Sludge Process and Sludge Disposal
- Lecture 46 - Introduction to Solid Waste Management
- Lecture 47 - Introduction to Solid Waste Management (Continued...)
- Lecture 48 - Components of Solid Waste Management
- Lecture 49 - Collection and Treatment
- Lecture 50 - Waste Disposal and Summary
- Lecture 51 - Basics of Air Pollution Issues - Global and Local
- Lecture 52 - Air Pollutants and Air Pollution Index
- Lecture 53 - Global Warming and Climate Change
- Lecture 54 - Air Pollution Models
- Lecture 55 - SDGs, Noise and Soil Pollution
- Lecture 56 - Present Issues and Few Case Studies
- Lecture 57 - Case Study - Solid Waste Management
- Lecture 58 - Case Study - Industrial Pollution and Disasters
- Lecture 59 - Case Study - Global Food Waste Initiatives
- Lecture 60 - Case Study - Global Food Waste and Resource Recovery

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

NPTEL Video Course - Multi Disciplinary - NOC:Biophotonics

Subject Co-ordinator - Prof. Basudev Lahiri

Co-ordinating Institute - IIT - Kharagpur

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

- Lecture 1 - Introduction to Biophotonics - Part I
- Lecture 2 - Introduction to Biophotonics - Part II
- Lecture 3 - Introduction to Biophotonics - Part III
- Lecture 4 - Nature of Light - Part I (As Wave)
- Lecture 5 - Nature of Light - Part II (As Particle)
- Lecture 6 - Fact of Matter - Part I
- Lecture 7 - Fact of Matter - Part II
- Lecture 8 - Basic of Light-Matter Interaction
- Lecture 9 - Molecular Materials
- Lecture 10 - Introduction to Fluorescence
- Lecture 11 - The Cell
- Lecture 12 - The Central Dogma
- Lecture 13 - Genetic Code
- Lecture 14 - Building Blocks
- Lecture 15 - Remaining Topics
- Lecture 16 - Light-Matter Interactions in Molecules (Basic of Spectroscopy)
- Lecture 17 - Light-Matter Interactions in Molecules (Basic of Spectroscopy) (Continued...)
- Lecture 18 - Interaction of Light with Cells
- Lecture 19 - Interaction of Light with Tissues
- Lecture 20 - Photoprocesses in Biopolymers
- Lecture 21 - Laser Principles and Operation
- Lecture 22 - Types of Lasers
- Lecture 23 - Nonlinear Optical Processes
- Lecture 24 - In Vivo Photoexcitation
- Lecture 25 - Examples and Applications
- Lecture 26 - Introduction
- Lecture 27 - Microscopy Techniques
- Lecture 28 - Near Field Microscopy and Optical Coherence Tomography
- Lecture 29 - Fluorophores and Fluorescence Microscopy Techniques

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

- Lecture 30 - The Future: AFM-IR
- Lecture 31 - Biosensing Background
- Lecture 32 - Optical Fiber Sensors
- Lecture 33 - Metamaterials
- Lecture 34 - Metamaterials as Biosensors
- Lecture 35 - Biosensing with Optical Nano-antennas
- Lecture 36 - Introduction to Photodynamic Therapy (PDT)
- Lecture 37 - Application of Photodynamic Therapy (PDT)
- Lecture 38 - Light Irradiation for Photodynamic Therapy (PDT)
- Lecture 39 - Real Life Examples of Photodynamic Therapy (PDT)
- Lecture 40 - Future of PDT and Photothermal Therapy (PTT)
- Lecture 41 - Laser Based Tissue Engineering
- Lecture 42 - Laser Tissue Contouring: Dermatological Application
- Lecture 43 - Laser Tissue Welding and Tissue Regeneration
- Lecture 44 - Laser Tissue Contouring: Ophthalmic Application
- Lecture 45 - Laser in Dentistry
- Lecture 46 - Tools for Micromanipulation
- Lecture 47 - The Optical/Laser Tweezer
- Lecture 48 - Design of Optical Tweezers
- Lecture 49 - Optical Scissors
- Lecture 50 - Selected Examples of Application
- Lecture 51 - Introduction to nanotechnology
- Lecture 52 - Processes of Nanotechnology
- Lecture 53 - Nano-Lithography: The Art of Small
- Lecture 54 - Thin Film Deposition
- Lecture 55 - Bionanophotonics Applications
- Lecture 56 - Introduction to Optogenetics
- Lecture 57 - Controlling the Brain with Light
- Lecture 58 - Optical Neuroimaging and Tomography
- Lecture 59 - Functional Near Infrared Spectroscopy (fNIRS) of the Brain
- Lecture 60 - Summary and Revisiting Few topics

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

NPTEL Video Course - Multi Disciplinary - NOC:Vacuum Technology and Process Application

Subject Co-ordinator - Prof. V. Vasudeva Rao

Co-ordinating Institute - IIT - Kharagpur

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

- Lecture 1 - Introduction to Vacuum, Natural Vacuum
- Lecture 2 - History of Vacuum Technology
- Lecture 3 - Kinetic Theory of Gases, Physical Parameters of Vacuum and Regions of Vacuum
- Lecture 4 - Vacuum Process Applications - I
- Lecture 5 - Vacuum Process Applications - II
- Lecture 6 - Pumping Speed and Throughput Concepts
- Lecture 7 - Rotary Vacuum Pump
- Lecture 8 - Diffusion Pump
- Lecture 9 - Roots Vacuum Pump
- Lecture 10 - Rotary Piston Pump
- Lecture 11 - Liquid Ring Pump
- Lecture 12 - Steam Jet Ejector
- Lecture 13 - Diaphragm Pump
- Lecture 14 - Claw Pump
- Lecture 15 - Screw Pump
- Lecture 16 - Scroll Pump, Sorption Concepts and Pumps
- Lecture 17 - Ion Pumping-Sputter Ion Pump
- Lecture 18 - Turbomolecular Pump
- Lecture 19 - Cryopumps
- Lecture 20 - Selection Criteria of Vacuum Pumps
- Lecture 21 - Primary vs Secondary Gauges, U Tube/McLeod gauges (Primary)
- Lecture 22 - Bourdon/Capacitance Gauges (Mechanical Deflection)
- Lecture 23 - Thermo-couple/Pirani gauges (Thermal Conductivity)
- Lecture 24 - Spinning Rotor/Ionization/Bayard Alpert Gauges
- Lecture 25 - Penning/ Inverted Magnetron gauges, Gauge calibration
- Lecture 26 - Vacuum Materials (Metals, Glasses, Ceramics, Greases and Oils)
- Lecture 27 - Vacuum Components (Flanges, Couplings, Seals, Valves)
- Lecture 28 - Vacuum Chamber Design
- Lecture 29 - Fabrication Techniques for Vacuum Systems

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- Lecture 30 - Testing of Vacuum Systems for Mechanical Failures, Gas Leaks and Outgassing
- Lecture 31 - Gas Flow at Low Pressures, Conductance and Effective Pumping Speed Concepts
- Lecture 32 - Conductance Calculations in Viscous Flow Region
- Lecture 33 - Molecular Flow
- Lecture 34 - Transition and Choked Flows
- Lecture 35 - Conductance and Pump Down Calculations in Vacuum Systems
- Lecture 36 - Design Aspects of Vacuum Systems for Different Applications - Part I
- Lecture 37 - Design Aspects of Vacuum Systems for Different Applications - Part II
- Lecture 38 - Design of a Vacuum Furnace for Metallurgical Processing
- Lecture 39 - Leak Detection in Vacuum Systems
- Lecture 40 - Magnetic Deflection Leak Detector and Quadrupole Residual Gas Analyzer
- Lecture 41 - Vacuum Processes in Chemical and Pharmaceutical Industries
- Lecture 42 - Vacuum for Food Processing
- Lecture 43 - Vacuum Technology in the Packaging Industry
- Lecture 44 - Vacuum in Wood Industry
- Lecture 45 - Vacuum Systems for Medical and Dental Applications
- Lecture 46 - Vacuum for Desalination of Sea Water and Treatment of Waste Water
- Lecture 47 - Vacuum Technology for Power Sector
- Lecture 48 - Vacuum Technology In Oil and Gas Industries
- Lecture 49 - Vacuum Technology in LNG industry
- Lecture 50 - Vacuum Technology for Cryogenic Applications
- Lecture 51 - Vacuum Technology in High Speed Transportation (Hyperloop and Maglev)
- Lecture 52 - Vacuum technology for Metallurgical applications
- Lecture 53 - Vacuum Technology for Analytical Instruments
- Lecture 54 - Vacuum based coating units for thin film deposition
- Lecture 55 - Vacuum for solar energy (Thermal and PV)
- Lecture 56 - Vacuum Technology for semiconductor chip manufacturing
- Lecture 57 - Vacuum Technology for Display Systems
- Lecture 58 - Vacuum Technology for Nuclear Applications - Part I
- Lecture 59 - Vacuum Technology for Nuclear Applications - Part II
- Lecture 60 - Vacuum technology for Space Applications

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

NPTEL Video Course - Multi Disciplinary - NOC:Basics of Health Promotion and Education Intervention

Subject Co-ordinator - Prof. Sweety Suman Jha, Prof.Chandrashekhar Taklikar, Prof. Madumita Dobe, Prof. Arist

Co-ordinating Institute - IIT - Kharagpur

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

- Lecture 1 - Brief history of public health
- Lecture 2 - Scope and Evolution of Health Promotion and Education
- Lecture 3 - Ottawa Charter
- Lecture 4 - Principles of health promotion
- Lecture 5 - Settings and audiences for health promotion
- Lecture 6 - Concepts of Health Behavior
- Lecture 7 - Health Risk Behavior Vs Health Promotion Behavior
- Lecture 8 - Concepts of Health Communication - Part I
- Lecture 9 - Concepts of Health Communication - Part II
- Lecture 10 - Health Literacy
- Lecture 11 - Information Education and Communication (IEC)
- Lecture 12 - Behavior Change Communication (BCC) - Part I
- Lecture 13 - Behavior Change Communication (BCC) - Part II
- Lecture 14 - Social and Behavior Change Communication (SBCC) - Part I
- Lecture 15 - Social and Behavior Change Communication (SBCC) - Part II
- Lecture 16 - Need Assessment for Health Promotion
- Lecture 17 - Approaches for Health Promotion and Behavior Change
- Lecture 18 - Models of Individual Health Behavior
- Lecture 19 - Models of Inter-Personal Health Behaviour
- Lecture 20 - Community and Group Models of Health Behavior Change
- Lecture 21 - Planning HPE Intervention - Part I
- Lecture 22 - Planning HPE Intervention - Part II
- Lecture 23 - Implementing HPE Intervention - Part I
- Lecture 24 - Implementing HPE Intervention - Part II
- Lecture 25 - Monitoring HPE Intervention
- Lecture 26 - Principles of Designing Messages
- Lecture 27 - Processes and Approaches of Designing Messages - Part I
- Lecture 28 - Processes and Approaches of Designing Messages - Part II
- Lecture 29 - Overview of Pretesting

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

- Lecture 30 - Pretesting of Health Promotion and Education Tools
- Lecture 31 - Health Education Methods - Part I
- Lecture 32 - Health Education Methods - Part II
- Lecture 33 - Health Education Material - Part I
- Lecture 34 - Health Education Material - Part II
- Lecture 35 - Technology-based approaches to health behavior change
- Lecture 36 - Evaluation of Theory-based HPE Interventions - Part I
- Lecture 37 - Evaluation of Theory-based HPE Interventions - Part II
- Lecture 38 - Analyzing Health Behavior Change Data
- Lecture 39 - RE-AIM Framework for Health Promotion Program Evaluation
- Lecture 40 - Health Impact Assessment

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

NPTEL Video Course - Multi Disciplinary - NOC:Basics of Mental Health and Clinical Psychiatry

Subject Co-ordinator - Prof. Arijita Banerjee, Prof. Sumit Kumar

Co-ordinating Institute - IIT - Kharagpur

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

Lecture 1 - Introduction to Neuroanatomy
Lecture 2 - Cerebellum
Lecture 3 - Basal Ganglia
Lecture 4 - Thalamus and Hypothalamus
Lecture 5 - Cerebral Cortex
Lecture 6 - Synapse and Neurotransmitters - 1
Lecture 7 - Synapse and Neurotransmitters - 2
Lecture 8 - Limbic System
Lecture 9 - Physiology of Emotions
Lecture 10 - Reticular Formation
Lecture 11 - Electrical activity of brain
Lecture 12 - Descriptive Psychopathology
Lecture 13 - Principles of Personality Development
Lecture 14 - Schizophrenia
Lecture 15 - Mood Disorders - 1
Lecture 16 - Mood Disorders - 2
Lecture 17 - Anxiety Disorders - I
Lecture 18 - Anxiety Disorders - II
Lecture 19 - Eating Disorders
Lecture 20 - Physiology of sleep
Lecture 21 - Sleep Disorders
Lecture 22 - Learning and Memory - 1
Lecture 23 - Learning and Memory - 2
Lecture 24 - Neurocognitive Disorders - I
Lecture 25 - Neurocognitive Disorders - II
Lecture 26 - Substance - I
Lecture 27 - Substance - II
Lecture 28 - Physiology of sensations
Lecture 29 - Psychosomatic Illness

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

- Lecture 30 - Emergency Psychiatry
- Lecture 31 - Child Psychiatry - I
- Lecture 32 - Child Psychiatry - II
- Lecture 33 - Psychotherapy - I
- Lecture 34 - Psychotherapy - II
- Lecture 35 - Psychological Tests
- Lecture 36 - Anti-psychotic drugs
- Lecture 37 - Antidepressants
- Lecture 38 - Mood Stabilizer
- Lecture 39 - Anti-anxiety drugs
- Lecture 40 - Forensic Psychiatry

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

NPTEL Video Course - Multi Disciplinary - NOC:Introduction to Reliability Engineering

Subject Co-ordinator - Prof. Neeraj Kumar Goyal

Co-ordinating Institute - IIT - Kharagpur

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

Lecture 1 - Introduction to Reliability Engineering
Lecture 2 - Introduction to Reliability Engineering
Lecture 3 - Introduction to Reliability Engineering
Lecture 4 - Probability Basics
Lecture 5 - Probability Basics (Continued...)
Lecture 6 - Constant Failure Rate Model - I
Lecture 7 - Constant Failure Rate Model - II
Lecture 8 - Constant Failure Rate Model - III
Lecture 9 - Two Parameter Exponential Distribution
Lecture 10 - Weibull Distribution (2 Parmeter)
Lecture 11 - Burn-in Screening for Weibull
Lecture 12 - Weibull Distribution
Lecture 13 - Normal Distribution
Lecture 14 - Lognormal Distribution
Lecture 15 - System Reliability Modelling
Lecture 16 - System Reliability Modelling (Continued...)
Lecture 17 - System Reliability Modelling (Continued...)
Lecture 18 - System Reliability Modelling (Continued...)
Lecture 19 - System Reliability Modelling (Continued...)
Lecture 20 - System Reliability Modelling (Continued...)
Lecture 21 - Markov Analysis
Lecture 22 - Markov Analysis (Continued...)
Lecture 23 - Markov Analysis (Continued...)
Lecture 24 - Markov Analysis (Continued...)
Lecture 25 - Markov Analysis (Continued...)
Lecture 26 - Failure Data Analysis: Non-Parametric Approach
Lecture 27 - Failure Data Analysis: Non-Parametric Approach (Continued...)
Lecture 28 - Failure Data Analysis: Non-Parametric Approach (Continued...)
Lecture 29 - Failure Data Analysis: Non-Parametric Approach (Continued...)

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

- Lecture 30 - Failure Data Analysis (Parametric)
- Lecture 31 - Failure data analysis (Parametric) (Continued...)
- Lecture 32 - Failure data analysis (Parametric) (Continued...)
- Lecture 33 - Goodness of fit
- Lecture 34 - Goodness of Fit (GoF) Tests
- Lecture 35 - Goodness of Fit (GoF) Tests (Continued...)
- Lecture 36 - Maintainability and Availability
- Lecture 37 - Maintainability and Availability (Continued...)
- Lecture 38 - Maintainability and Availability (Continued...)
- Lecture 39 - Maintainability and Availability (Continued...)
- Lecture 40 - Summary of the course Introduction to Reliability Engineering

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

NPTEL Video Course - Multi Disciplinary - NOC:Nanobio Technology Enabled Point-of-Care Devices

Subject Co-ordinator - Prof. Gorachand Dutta

Co-ordinating Institute - IIT - Kharagpur

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

- Lecture 1 - Introduction
- Lecture 2 - Biosensors and its Application
- Lecture 3 - Translational Research and Nano Biosensing
- Lecture 4 - Nanomaterials for Healthcare Biosensing
- Lecture 5 - Signal Amplification for Ultrasensitive Biosensors
- Lecture 6 - Signal Amplification for Ultrasensitive Biosensors (Continued...)
- Lecture 7 - Signal Amplification for Ultrasensitive Biosensors (Continued...)
- Lecture 8 - Signal Amplification for Ultrasensitive Biosensors (Continued...)
- Lecture 9 - Different Measurement Techniques for Electrochemical Biosensors
- Lecture 10 - Limit of Detection and Wash-Free Detection for Biosensors
- Lecture 11 - Wash-Free Detection for Biosensors (Continued...)
- Lecture 12 - Label-Free Detection for Biosensors
- Lecture 13 - Label-free detection and Multiplex Biosensors
- Lecture 14 - Multiplex Biosensors (Continued...)
- Lecture 15 - Strategy for Electrochemical Detection and Tuning of Electrocatalytic Activities
- Lecture 16 - Enhanced electrocatalytic activity for biosensors
- Lecture 17 - Strategy for Electrochemical Detection and Tuning of Electrocatalytic Activities
- Lecture 18 - Strategy for Electrochemical Detection and Tuning of Electrocatalytic Activities
- Lecture 19 - Strategy for Electrochemical Detection and Tuning of Electrocatalytic Activities
- Lecture 20 - Strategy for Electrochemical Detection and Tuning of Electrocatalytic Activities
- Lecture 21 - Strategy for Electrochemical Detection and Tuning of Electrocatalytic Activities
- Lecture 22 - Strategy for Electrochemical Detection and Tuning of Electrocatalytic Activities
- Lecture 23 - Effect of pretreatment on PCB and biosensor development
- Lecture 24 - Impact of surface Roughness of PCB and PCB for Glucose sensors
- Lecture 25 - Tutorial on Biosensors Fabrication
- Lecture 26 - Tutorial on Biosensors Fabrication (Continued...)
- Lecture 27 - Tutorial on Biosensors Fabrication (Continued...)
- Lecture 28 - Tutorial on Biosensors Fabrication (Continued...)
- Lecture 29 - Tutorial on Biosensors Fabrication (Continued...)

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

- Lecture 30 - Tutorial on Biosensors Fabrication (Continued...)
- Lecture 31 - Self-Powered Biosensors
- Lecture 32 - Biosensors for Safety and Security
- Lecture 33 - Research Proposal and Ethical Clearance
- Lecture 34 - Special Chemistry for Biosensing
- Lecture 35 - Tutorial - 2
- Lecture 36 - Tutorial - 3
- Lecture 37 - Tutorial - 4
- Lecture 38 - Lab Demonstration - 1
- Lecture 39 - Lab Demonstration - 2
- Lecture 40 - Lab Demonstration - 3

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

NPTEL Video Course - Multi Disciplinary - NOC:Adolescent Health and Well-Being : A Holistic Approach

Subject Co-ordinator - Dr. Sumana Samanta, Dr. Parmeshwar Satpathy

Co-ordinating Institute - IIT - Kharagpur

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

- Lecture 1 - Adolescent Health Statistics
- Lecture 2 - Introduction to Nutrition and Dietetics
- Lecture 3 - Role of Macronutrients
- Lecture 4 - Role of Micronutrients
- Lecture 5 - Basics of Adolescent Mental Health
- Lecture 6 - Physiological and Psychological changes during Adolescence
- Lecture 7 - Special Nutritional Requirements in Adolescents
- Lecture 8 - Malnutrition in Adolescents and their effects in Adult life
- Lecture 9 - Adolescent Immunization
- Lecture 10 - High risk behaviour in Adolescents
- Lecture 11 - Nutrition Care Process
- Lecture 12 - Dietary Counseling and Nutrition Planning
- Lecture 13 - Common Micronutrient Deficiency in Adolescents
- Lecture 14 - Eating Disorders in Adolescents
- Lecture 15 - National Initiatives related to Adolescents
- Lecture 16 - Behavior Modification for Weight Management
- Lecture 17 - Adolescents And Physical Activity
- Lecture 18 - Combating Special Situations
- Lecture 19 - Legislations for Adolescents
- Lecture 20 - Innovations for Holistic Well-being of Adolescents

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

NPTEL Video Course - Multi Disciplinary - NOC:Research Methods in Health Promotion

Subject Co-ordinator - Dr. Arista Lahiri, Dr. Sweety Suman Jha, Prof. Madhumita Dobe

Co-ordinating Institute - IIT - Kharagpur

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

- Lecture 1 - Basics of Health Promotion
- Lecture 2 - Basic Principles of Health Promotion
- Lecture 3 - The Health Promotion Research Process
- Lecture 4 - Process of Health Promotion Research: Integrity and Rigor
- Lecture 5 - Ethics in Health Promotion Research
- Lecture 6 - Health Behavior and Health Behavior Change
- Lecture 7 - Theory, Research and Behavior Change Techniques
- Lecture 8 - Intervention Mapping
- Lecture 9 - Ecological Models of Health Behavior
- Lecture 10 - Social Science Techniques
- Lecture 11 - Precede-Proceed Model
- Lecture 12 - Models of Individual Health Behavior - I
- Lecture 13 - Models of Individual Health Behavior - II
- Lecture 14 - Models of Interpersonal Health Behavior
- Lecture 15 - Community and Group Models of Health Behavior Change
- Lecture 16 - Research design and techniques
- Lecture 17 - Observational research designs
- Lecture 18 - Experimental Research Designs
- Lecture 19 - Experimental Research Designs: Issues and Challenges
- Lecture 20 - Measurements in Health promotion
- Lecture 21 - Qualitative methods in Health Promotion - Part I
- Lecture 22 - Qualitative Methods in Health Promotion - Part II
- Lecture 23 - Qualitative Methods in Health Promotion - Part III
- Lecture 24 - Qualitative Methods in Health Promotion - Part IV
- Lecture 25 - Qualitative Methods in Health Promotion - Part V
- Lecture 26 - Introduction to Mixed Methods Research
- Lecture 27 - The Convergent Design
- Lecture 28 - The Explanatory Sequential Design
- Lecture 29 - The Exploratory Sequential Design (Continued...)

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

- Lecture 30 - The Embedded Design
- Lecture 31 - Different study tools and their application in health promotion research
- Lecture 32 - Formulating an appropriate study tool (Quantitative data collection tools)
- Lecture 33 - Validity and reliability of study tools in quantitative research - Part I
- Lecture 34 - Validity and reliability of study tools in quantitative research - Part II
- Lecture 35 - Formulating an appropriate study tool(Qualitative data collection tools)
- Lecture 36 - Designing messages - Part I
- Lecture 37 - Designing messages - Part II
- Lecture 38 - Materials and Methods of Intervention Delivery - Part I
- Lecture 39 - Materials and Methods of Intervention Delivery - Part II
- Lecture 40 - Pretesting of an intervention tool
- Lecture 41 - BCC and SBCC - Part I
- Lecture 42 - BCC and SBCC - Part II
- Lecture 43 - BCC and SBCC - Part III
- Lecture 44 - BCC and SBCC - Part IV
- Lecture 45 - BCC and SBCC - Part V
- Lecture 46 - Community-Based Participatory Research in context to Health Promotion - Part I
- Lecture 47 - Community-Based Participatory Research in context to Health Promotion - Part II
- Lecture 48 - Community-Based Participatory Research in context to Health Promotion - Part III
- Lecture 49 - Community-Based Participatory Research in context to Health Promotion - Part IV
- Lecture 50 - Community-Based Participatory Research in context to Health Promotion - Part V
- Lecture 51 - Quantitative analytical methods - Part I
- Lecture 52 - Quantitative analytical methods - Part II
- Lecture 53 - Quantitative analytical methods - Part III
- Lecture 54 - Analysis of Qualitative data
- Lecture 55 - Analyzing Mixed Methods data
- Lecture 56 - Developing a research proposal in health promotion
- Lecture 57 - Report writing in health Promotion: An Overview
- Lecture 58 - Report writing: quantitative research in health promotion - Part I
- Lecture 59 - Report writing: quantitative research in health promotion - Part II
- Lecture 60 - Report Writing: Qualitative and Mixed Methods research

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

NPTEL Video Course - Multi Disciplinary - NOC:Neuroscience of Human Movement

Subject Co-ordinator - Prof. Varadhan

Co-ordinating Institute - IIT - Madras

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

Lecture 0 - Neuroscience of Human Movement
Lecture 1 - Membrane Physiology - Part 1
Lecture 2 - Membrane Physiology - Part 2
Lecture 3 - Nernst Equation
Lecture 4 - Goldman Equation
Lecture 5 - Action Potential - Part 1
Lecture 6 - Action Potential - Part 2
Lecture 7 - Action Potential - Part 3
Lecture 8 - Action Potential - Part 4
Lecture 9 - Action Potential - Part 5
Lecture 10 - Review of Action Potential and Neurotransmitters
Lecture 11 - Neuromuscular Junction
Lecture 12 - Disorders of Neuromuscular Junction
Lecture 13 - Skeletal Muscles - Part 1
Lecture 14 - Skeletal Muscles - Part 2
Lecture 15 - Skeletal Muscles - Part 3
Lecture 16 - Skeletal Muscles - Part 4
Lecture 17 - Muscle force production
Lecture 18 - Motor Units - Part 1
Lecture 19 - Motor Units - Part 2
Lecture 20 - Motor Units - PIC and EMG
Lecture 21 - Receptors - Part 1
Lecture 22 - Receptors - Part 2
Lecture 23 - Spine and Spinal Cord
Lecture 24 - Excitation and Inhibition within Spinal Cord - Part 1
Lecture 25 - Excitation and Inhibition within Spinal Cord - Part 2
Lecture 26 - Monosynaptic Reflexes - Part 1
Lecture 27 - Monosynaptic Reflexes - Part 2
Lecture 28 - Monosynaptic Reflexes - Part 3

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

- Lecture 29 - Oligosynaptic and Polysynaptic Reflexes - Part 1
- Lecture 30 - Oligosynaptic and Polysynaptic Reflexes - Part 2
- Lecture 31 - Pre-Programmed Reactions - Part 1
- Lecture 32 - Pre-Programmed Reactions - Part 2
- Lecture 33 - Spinal Cord Injuries and Central Pattern Generators
- Lecture 34 - Animal Preparations for Neuroscience Experiments
- Lecture 35 - Overview of motor control system
- Lecture 36 - Terminology
- Lecture 37 - Primary Motor Cortex - Part 2
- Lecture 38 - Primary Motor Cortex - Part 3
- Lecture 39 - Primary Motor Cortex - Part 4
- Lecture 40 - Primary Motor Cortex - Part 5
- Lecture 41 - Primary Motor Cortex - Part 6
- Lecture 42 - Primary Motor Cortex - Part 7
- Lecture 43 - Primary Motor Cortex - Part 8
- Lecture 44 - Primary Motor Cortex - Part 9
- Lecture 45 - Primary Motor Cortex - Part 10
- Lecture 46 - Primary Motor Cortex - Part 11
- Lecture 47 - Primary Motor Cortex - Part 12
- Lecture 48 - Primary Motor Cortex - Part 13
- Lecture 49 - Primary Motor Cortex - Part 14
- Lecture 50 - Primary Motor Cortex - Part 15
- Lecture 51 - Cerebellum - Part 1
- Lecture 52 - Cerebellum - Part 2
- Lecture 53 - Cerebellum - Part 3
- Lecture 54 - Cerebellum - Part 4
- Lecture 55 - Cerebellum - Part 5
- Lecture 56 - Cerebellum - Part 6
- Lecture 57 - Cerebellum - Part 7
- Lecture 58 - Cerebellum - Part 8
- Lecture 59 - Cerebellum - Part 9
- Lecture 60 - Cerebellum - Part 10
- Lecture 61 - Cerebellum - Part 11
- Lecture 62 - Cerebellum - Part 12
- Lecture 63 - Basal Ganglia - Part 1
- Lecture 64 - Basal Ganglia - Pathways
- Lecture 65 - Basal Ganglia - Inputs
- Lecture 66 - Basal Ganglia - Outputs
- Lecture 67 - Basal Ganglia - Various Functions

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- Lecture 68 - Basal Ganglia - Motor Functions
- Lecture 69 - Basal Ganglia - Motor Functions.
- Lecture 70 - Basal Ganglia - Dopamine and Acetylcholine
- Lecture 71 - Basal Ganglia - Disorders
- Lecture 72 - Parkinson's Disease - Intro
- Lecture 73 - Parkinson's Disease - Rate Model, Pathophysiology
- Lecture 74 - Parkinson's Disease - Current therapeutic approaches and the future
- Lecture 75 - Basal Ganglia - Various Disorders
- Lecture 76 - Neuropsychiatric disorders due to BG dysfunction
- Lecture 77 - Parietal and Premotor Cortex - Part 1
- Lecture 78 - Parietal and Premotor Cortex - Part 2
- Lecture 79 - Parietal and Premotor Cortex - Part 3
- Lecture 80 - Parietal and Premotor Cortex - Part 4
- Lecture 81 - Parietal and Premotor Cortex - Part 5
- Lecture 82 - Parietal and Premotor Cortex - Part 6

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

NPTEL Video Course - Multi Disciplinary - NOC:Manage TB

Subject Co-ordinator - Dr. M S Jawahar, Dr.V.V.Banu Rekha, Prof. Mohan Natrajan

Co-ordinating Institute - IIT - Madras

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

Lecture 1 - How is TB affecting public health Globally and Nationally

Lecture 2 - Epidemiology of TB-Session - 1

Lecture 3 - Epidemiology of TB-Session - 2

Lecture 4 - Pathogenesis of TB-Session - 1

Lecture 5 - Pathogenesis of TB-Session - 2

Lecture 6 - Clinical manifestations of TB-Session - 1

Lecture 7 - Clinical manifestations of TB-Session - 2

Lecture 8 - Clinical manifestations of TB-Session - 3

Lecture 9 - Bacteriological Diagnosis of Tuberculosis - Smear and Culture

Lecture 10 - Demonstration of processing of sputum specimen for culture for diagnosis of tuberculosis

Lecture 11 - Demonstration of sputum smear examination for diagnosis of tuberculosis

Lecture 12 - Demonstration of solid culture method for diagnosis of tuberculosis

Lecture 13 - Demonstration of liquid culture method for diagnosis of tuberculosis in sputum

Lecture 14 - Phenotypic drug susceptibility testing in Tuberculosis

Lecture 15 - Demonstration of drug susceptibility testing of first line anti-TB drugs by liquid culture

Lecture 16 - Molecular Diagnosis of Tuberculosis-Session - 1

Lecture 17 - Molecular Diagnosis of Tuberculosis-Session - 2

Lecture 18 - Demonstration of Xpert MTB-RIF assay for diagnosis of tuberculosis from sputum specimens

Lecture 19 - Demonstration of Line Probe Assay (LPA) (Direct detection of tuberculosis and resistance to isoniazid)

Lecture 20 - Radiology in diagnosis of Tuberculosis-Session - 1

Lecture 21 - Radiology in diagnosis of Tuberculosis-Session - 2

Lecture 22 - Radiology in diagnosis of Tuberculosis-Session - 3

Lecture 23 - Radiology in diagnosis of Tuberculosis-Session - 4

Lecture 24 - Approach to diagnosis of Pulmonary TB

Lecture 25 - Case Discussion-Approach to diagnosis of TB in a person with presumptive pulmonary TB

Lecture 26 - Case Discussion-Approach to diagnosis of pulmonary TB in a patient with negative sputum smear for TB

Lecture 27 - Approach to diagnosis of Extra-pulmonary TB

Lecture 28 - Case Discussion-Approach to diagnosis of TB in a person with swelling in the neck

Lecture 29 - Case Discussion-Approach to diagnosis of TB spine

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

- Lecture 30 - Diagnosis of Childhood Tuberculosis-Session - 1
- Lecture 31 - Diagnosis of Childhood Tuberculosis-Session - 2
- Lecture 32 - Video demonstration of gastric fluid aspiration technique in a child
- Lecture 33 - Case Discussion-Approach to diagnosis of TB in a child with presumptive pulmonary TB
- Lecture 34 - Case Discussion-Approach to diagnosis of TB meningitis in a child
- Lecture 35 - Drugs for treating Tuberculosis and Principles of Chemotherapy-Session - 1
- Lecture 36 - Drugs for treating Tuberculosis and Principles of Chemotherapy-Session - 2
- Lecture 37 - Treatment of Drug Sensitive Pulmonary Tuberculosis
- Lecture 38 - Case discussion-Approach to treatment of drug sensitive TB
- Lecture 39 - Management of drug resistant Tuberculosis-Session - 1
- Lecture 40 - Management of drug resistant Tuberculosis-Session - 2
- Lecture 41 - Case discussion-Approach to treatment of Multi-drug resistant TB (MDR-TB)/ Extensively drug resistant TB
- Lecture 42 - Management of Extra-pulmonary Tuberculosis-Session - 1
- Lecture 43 - Management of Extra-pulmonary Tuberculosis-Session - 2
- Lecture 44 - Panel discussion-Practical difficulties in the management of Extra-pulmonary TB
- Lecture 45 - Management of patients with HIV-TB coinfection-Session - 1
- Lecture 46 - Management of patients with HIV-TB coinfection-Session - 2
- Lecture 47 - Case discussion-Approach to management of HIV-TB
- Lecture 48 - Management of TB in special situations
- Lecture 49 - Case discussion-Approach to management of TB in pregnancy
- Lecture 50 - Treatment of Pediatric Tuberculosis-Session - 1
- Lecture 51 - Treatment of Pediatric Tuberculosis-Session - 2
- Lecture 52 - Management of Adverse effects to anti-TB drugs-Session - 1
- Lecture 53 - Management of Adverse effects to anti-TB drugs-Session - 2
- Lecture 54 - Case discussion-Approach to management of jaundice during anti-TB treatment
- Lecture 55 - Case discussion-Approach to management of skin rashes during anti-TB treatment
- Lecture 56 - Non-tuberculous Mycobacteria- Diagnosis and Clinical management-Session - 1
- Lecture 57 - Non-tuberculous Mycobacteria - Diagnosis and Clinical Management Session - 2
- Lecture 58 - Newer Anti-TB drugs and regimens-Session - 1
- Lecture 59 - Newer Anti-TB drugs and regimens-Session - 2
- Lecture 60 - Management of Latent TB Infection-Session - 1
- Lecture 61 - Management of Latent TB Infection-Session - 2
- Lecture 62 - Airborne infection control in tuberculosis-Session - 1
- Lecture 63 - Airborne infection control in tuberculosis-Session - 2
- Lecture 64 - Vaccine for Tuberculosis-Session - 1
- Lecture 65 - Vaccine for Tuberculosis-Session - 2
- Lecture 66 - Services offered by Revised National TB Control Programme (RNTCP)-Session - 1
- Lecture 67 - Services offered by Revised National TB Control Programme (RNTCP)-Session - 2
- Lecture 68 - Services offered by Revised National TB Control Programme (RNTCP)-Session - 3

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

- Lecture 69 - Services offered by Revised National TB Control Programme (RNTCP)-Session - 4
- Lecture 70 - Tuberculosis notification-Session - 1
- Lecture 71 - Tuberculosis notification-Session - 2
- Lecture 72 - Addressing Social Barriers in Tuberculosis Control-Session - 1
- Lecture 73 - Addressing Social Barriers in Tuberculosis Control-Session - 2
- Lecture 74 - Standards for TB Care in India-Session - 1
- Lecture 75 - Standards for TB Care in India-Session - 2
- Lecture 76 - Global Tuberculosis Control Strategies

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

NPTEL Video Course - Multi Disciplinary - NOC:Ecology and Environment

Subject Co-ordinator - Dr. Abhijit P. Deshpande

Co-ordinating Institute - IIT - Madras

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

- Lecture 1 - Sustainability
- Lecture 2 - Dams
- Lecture 3 - Dams
- Lecture 4 - Adayar River
- Lecture 5 - Adayar River
- Lecture 6 - Urbanisation in Western Ghats and Biodiesel
- Lecture 7 - Use And Throw Plastic
- Lecture 8 - Nano Materials Information Technology
- Lecture 9 - Definition of Health Risk
- Lecture 10 - Transport Of Pollutants in the Environment
- Lecture 11 - Assesment of Risk
- Lecture 12 - Remediation and Liability
- Lecture 13 - Remendiation and Liability
- Lecture 14 - Life Cycle Analysis
- Lecture 15 - Energy and Environment module - 1
- Lecture 16 - Energy and Environment module - 2
- Lecture 17 - Energy and Environment module - 3
- Lecture 18 - Energy and Environment module - 4
- Lecture 19 - Energy and Environment module - 5
- Lecture 20 - Energy and Environment module - 6
- Lecture 21 - Energy and Environment module - 7
- Lecture 22 - Drinking Water Supply
- Lecture 23 - Drinking Water Supply
- Lecture 24 - Water Quality Standards And Philosophy of Water Treatment
- Lecture 25 - Water Treatment
- Lecture 26 - Wastewater Management in Developing Urban Environments
- Lecture 27 - Wastewater Recycling
- Lecture 28 - Sustainable Water Management In Urban Areas - Part 1
- Lecture 29 - Sustainable Water Management In Urban Areas - Part 2

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

- Lecture 30 - Ground Water Contamination
- Lecture 31 - Groundwater - Sanitation Nexus
- Lecture 32 - Chasing Sustainability - The Challenge - Part 1
- Lecture 33 - Chasing Sustainability - The Challenge - Part 2
- Lecture 34 - Developing Frame Works Of Action
- Lecture 35 - Developing Frame Works Of Action
- Lecture 36 - Social And sanitation
- Lecture 37 - Promoting Policies For Eco-Productive Cities in the global House - Part 1
- Lecture 38 - Promoting Policies For Eco-Productive Cities in the global House - Part 2
- Lecture 39 - The need to study ecology
- Lecture 40 - Ecosystem functions and services
- Lecture 41 - What is studied in ecology?
- Lecture 42 - Ecological footprint
- Lecture 43 - Energy and Material flow in ecosystems and ecological efficiency
- Lecture 44 - Energy flow, productivity and Biodiversity
- Lecture 45 - Biodiversity, population and ecological principles

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

NPTEL Video Course - Multi Disciplinary - NOC:Current Regulatory Requirements for Conducting Clinical Trials

Subject Co-ordinator - Prof. Nandini K Kumar, Prof. Sucheta Banerjee Kurundkar, Prof. A. B. Ramteke

Co-ordinating Institute - IIT - Madras

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

Lecture 1 - C1 - L00

Lecture 2 - C1 - Introduction Assorted Interviews

Lecture 3 - C1 - L01

Lecture 4 - C1 - L02

Lecture 5 - C1 - L03

Lecture 6 - C1 - L04

Lecture 7 - C1 - L05

Lecture 8 - C1 - L06

Lecture 9 - C1 - L07

Lecture 10 - C1 - L08

Lecture 11 - C1 - L09

Lecture 12 - C1 - L10A

Lecture 13 - C1 - L10B

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

NPTEL Video Course - Multi Disciplinary - NOC:Regulatory Requirements for Medical Devices and IVD kits in India

Subject Co-ordinator - Prof. A. B. Ramteke, Prof. Malay Mitra

Co-ordinating Institute - IIT - Madras

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

Lecture 1 - C2 - Introduction Assorted Interviews

Lecture 2 - C2 - L00

Lecture 3 - C2 - L01

Lecture 4 - C2 - L02

Lecture 5 - C2 - L03

Lecture 6 - C2 - L04

Lecture 7 - C2 - L05

Lecture 8 - C2 - L06

Lecture 9 - C2 - L07

Lecture 10 - C2 - L08

Lecture 11 - C2 - L09

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

NPTEL Video Course - Multi Disciplinary - NOC:Numerical Methods for Engineers

Subject Co-ordinator - Dr. Niket S.Kaisare

Co-ordinating Institute - IIT - Madras

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

- Lecture 1 - Introduction
- Lecture 2 - Overview of Learning Modules
- Lecture 3 - Course Plan
- Lecture 4 - Tutorial
- Lecture 5 - Errors and Approximations
- Lecture 6 - Truncation and Round-Off Errors
- Lecture 7 - Binary Numbers
- Lecture 8 - Floating Point
- Lecture 9 - Floating Point in Binary system
- Lecture 10 - Iterative Method
- Lecture 11 - Direct Method
- Lecture 12 - Sequential Method
- Lecture 13 - Linear Algebra
- Lecture 14 - Introduction to Linear Equations
- Lecture 15 - Rank Condition for Solving Linear Equations
- Lecture 16 - Motivating Gauss Elimination
- Lecture 17 - Gauss Elimination
- Lecture 18 - Tutorial Recap
- Lecture 19 - Back Substitution to find solution
- Lecture 20 - Gauss Jordan and LU Decomposition
- Lecture 21 - Partial Pivoting in Gauss Elimination
- Lecture 22 - Analysis of Gauss Elimination
- Lecture 23 - Tri-Diagonal Systems
- Lecture 24 - Thomas Algorithm for Tri-Diagonal Systems
- Lecture 25 - Gauss Siedel Method
- Lecture 26 - Analysis of Gauss Siedel Method
- Lecture 27 - Gauss Siedel vs. Jacobi Methods
- Lecture 28 - Bonus
- Lecture 29 - Summary

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

- Lecture 30 - Introduction to Nonlinear Equations
- Lecture 31 - Bisection Method
- Lecture 32 - Analysis of Bisection Method
- Lecture 33 - Bonus
- Lecture 34 - Regula-Falsi Method
- Lecture 35 - Bonus
- Lecture 36 - Regula-Falsi vs. Secant Method
- Lecture 37 - Bonus
- Lecture 38 - Some special cases
- Lecture 39 - Fixed-Point Iteration
- Lecture 40 - Newton-Raphson Method
- Lecture 41 - Analysis of Fixed-Point Iteration
- Lecture 42 - Analysis of Newton-Raphson
- Lecture 43 - Problems with Newton-Raphson
- Lecture 44 - Multi-Variable Fixed-Point Iteration
- Lecture 45 - Multi-Variable Newton-Raphson
- Lecture 46 - Out of Syllabus
- Lecture 47 - Out of Syllabus
- Lecture 48 - Summary
- Lecture 49 - Introduction
- Lecture 50 - Linear Regression in One Variable
- Lecture 51 - Recap
- Lecture 52 - Bonus
- Lecture 53 - Linear Regression in Multiple Variables
- Lecture 54 - Matrix Method for Multi-Linear Regression
- Lecture 55 - Polynomial Regression
- Lecture 56 - Functional Regression
- Lecture 57 - Bonus
- Lecture 58 - Interpolation
- Lecture 59 - Bonus
- Lecture 60 - Lagrange Interpolating Polynomials
- Lecture 61 - Newton's Forward Difference Polynomial
- Lecture 62 - Newton's Divided Differences
- Lecture 63 - Interpolation Examples
- Lecture 64 - Bonus
- Lecture 65 - Summary
- Lecture 66 - Numerical Differentiation
- Lecture 67 - Numerical Differentiation Formula and Analysis
- Lecture 68 - Derivation using Method of undetermined coefficients

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

- Lecture 69 - Three-point differentiation formulae
- Lecture 70 - Bonus
- Lecture 71 - Truncation vs. Round-Off Errors
- Lecture 72 - Numerical Differentiation Examples
- Lecture 73 - Summary of Numerical Differentiation
- Lecture 74 - Numerical Integration
- Lecture 75 - Trapezoidal rule and Derivation
- Lecture 76 - Simpson's Rules for Integration
- Lecture 77 - Bonus
- Lecture 78 - Error Analysis for Simpson's Rules
- Lecture 79 - Numerical Integration Examples
- Lecture 80 - Bonus
- Lecture 81 - Summary of Newton Cotes Formulae
- Lecture 82 - Richardson's Extrapolation
- Lecture 83 - Gauss Quadrature
- Lecture 84 - Summary of Numerical Integration
- Lecture 85 - Introduction to ODE-IVP
- Lecture 86 - Motivation using an Example (Bonus)
- Lecture 87 - Euler's Methods and Second-Order Methods
- Lecture 88 - Second-Order Runge-Kutta Methods
- Lecture 89 - Summary of RK-2
- Lecture 90 - Higher order RK Methods
- Lecture 91 - Bonus
- Lecture 92 - Bonus
- Lecture 93 - Summary and Recap
- Lecture 94 - Introduction to Predictor-Corrector Methods
- Lecture 95 - Stability of Implicit Methods
- Lecture 96 - Stability Analysis of Euler's Methods
- Lecture 97 - Extension to multiple variables
- Lecture 98 - Local vs. Global Truncation Errors
- Lecture 99 - Richardson's Extrapolation
- Lecture 100 - Stiff System of ODEs
- Lecture 101 - Adaptive Step-sizing
- Lecture 102 - Adaptive step-sizing and Embedded Methods
- Lecture 103 - Bonus
- Lecture 104 - Summary and Recap (Weeks 10 and 11)
- Lecture 105 - Introduction to ODE-BVP
- Lecture 106 - Shooting Method
- Lecture 107 - Finite Difference Method

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- Lecture 108 - Solution using Shooting Method
- Lecture 109 - Algorithm for Shooting Method
- Lecture 110 - Problems with Shooting Method
- Lecture 111 - Solving ODE-BVP using Finite Difference Method
- Lecture 112 - Microsoft Excel based Solution
- Lecture 113 - Recap of Week-12 (ODE-BVP)

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

NPTEL Video Course - Multi Disciplinary - Basic Course in Biomedical Research

Subject Co-ordinator - Dr. Sanjay Mehendale

Co-ordinating Institute - IIT - Madras

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

- Lecture 1 - Introduction to health research
- Lecture 2 - Formulating research question
- Lecture 3 - Literature review
- Lecture 4 - Measures of disease frequency
- Lecture 5 - Descriptive study designs
- Lecture 6 - Analytical study designs
- Lecture 7 - Experimental study designs
- Lecture 8 - Validity of epidemiological studies
- Lecture 9 - Qualitative research methods
- Lecture 10 - Measurement of study variables
- Lecture 11 - Sampling methods
- Lecture 12 - Calculating sample size and power
- Lecture 13 - Selection of study population
- Lecture 14 - Study plan and project management
- Lecture 15 - Designing data collection tools
- Lecture 16 - Principles of data collection
- Lecture 17 - Data management
- Lecture 18 - Overview of data analysis
- Lecture 19 - Ethical framework for health research
- Lecture 20 - Conducting clinical trails
- Lecture 21 - Preparing a concept paper for research projects
- Lecture 22 - Elements of a protocol for research studies

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

NPTEL Video Course - Multi Disciplinary - NOC:Thermodynamics

Subject Co-ordinator - Prof. Anand T. N. C

Co-ordinating Institute - IIT - Madras

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

Lecture 1 - Basic concepts and definitions - Part 1
Lecture 2 - Basic concepts and definitions - Part 2
Lecture 3 - Basic concepts and definitions - Part 3
Lecture 4 - Tutorial problems on exact and inexact differential
Lecture 5 - Basic concepts and definitions - Part 4
Lecture 6 - Work - Part 1
Lecture 7 - Work - Part 2
Lecture 8 - Work - Part 3
Lecture 9 - Work - Part 4
Lecture 10 - Work - Part 5
Lecture 11 - Tutorial problem on 'Work' - Part 1
Lecture 12 - Tutorial problem - Part 2
Lecture 13 - Tutorial problem on 'Work' - Part 3
Lecture 14 - Tutorial problem on 'Work' - Part 4
Lecture 15 - Zeroth law of thermodynamics
Lecture 16 - Methods of temperature measurement
Lecture 17 - Modes of heat transfer
Lecture 18 - Tutorial problem on 'Modes of heat transfer'
Lecture 19 - Tutorial problem on 'Methods of temperature measurement'
Lecture 20 - First law of thermodynamics
Lecture 21 - Tutorial problem
Lecture 22 - Tutorial problem
Lecture 23 - Heat and work interactions for a system
Lecture 24 - Tutorial problem - Part 1
Lecture 25 - Pure substance
Lecture 26 - Tutorial problem - Part 2
Lecture 27 - Ideal gas - Part 1
Lecture 28 - Ideal gas - Part 2
Lecture 29 - Tutorial problem - Part 3

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

- Lecture 30 - Tutorial problem - Part 4
- Lecture 31 - Tutorial problem - Part 5
- Lecture 32 - Specific heats at constant pressure and constant volume
- Lecture 33 - Tutorial problem - Part 6
- Lecture 34 - Tutorial problem - Part 7
- Lecture 35 - Ideal gas - Part 3
- Lecture 36 - Ideal gas - Part 4
- Lecture 37 - Ideal gas - Part 5
- Lecture 38 - Tutorial problem - Part 1
- Lecture 39 - Tutorial problem - Part 2
- Lecture 40 - Tutorial problem - Part 3
- Lecture 41 - Tutorial problem - Part 4
- Lecture 42 - Beyond ideal gases - Part 1
- Lecture 43 - Beyond ideal gases - Part 2
- Lecture 44 - Two phase system - Part 1
- Lecture 45 - Two phase system - Part 2
- Lecture 46 - Two phase system
- Lecture 47 - Tutorial problems (2 numbers)
- Lecture 48 - Tutorial problem - Part 1
- Lecture 49 - Tutorial problem - Part 2
- Lecture 50 - Tutorial problem - Part 3
- Lecture 51 - Tutorial problems on two-phase systems (2 numbers)
- Lecture 52 - Tutorial problem (1 number)
- Lecture 53 - Rate equation of the first law of thermodynamics for a control mass and a control volume
- Lecture 54 - Energy equation for a steady-state, steady-flow process in selected engineering devices
- Lecture 55 - Tutorial problems (3 numbers)
- Lecture 56 - Tutorial problem - Part 1
- Lecture 57 - Tutorial problem - Part 2
- Lecture 58 - Quasi-static process revisited
- Lecture 59 - Second law of thermodynamics
- Lecture 60 - Second law of thermodynamics
- Lecture 61 - Second law of thermodynamics
- Lecture 62 - Second law of thermodynamics
- Lecture 63 - Second law of thermodynamics
- Lecture 64 - Second law of thermodynamics
- Lecture 65 - Tutorial problems (2 numbers)
- Lecture 66 - Tutorial problem (1 number)
- Lecture 67 - Tutorial problem (1 number)
- Lecture 68 - Tutorial problem (2 numbers)

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

- Lecture 69 - Second law of thermodynamics
- Lecture 70 - Entropy - Part 1
- Lecture 71 - Tutorial problem (1 number)
- Lecture 72 - Entropy - Part 2
- Lecture 73 - Entropy - Part 3
- Lecture 74 - Entropy - Part 4
- Lecture 75 - Tutorial problem (1 number)
- Lecture 76 - Tutorial problem (1 number)
- Lecture 77 - Tutorial problems (2 numbers)
- Lecture 78 - Entropy - Part 5
- Lecture 79 - Entropy - Part 6
- Lecture 80 - Entropy - Part 7
- Lecture 81 - Exergy - Part 1
- Lecture 82 - Exergy - Part 2
- Lecture 83 - Exergy - Part 3
- Lecture 84 - Thermodynamics cycles
- Lecture 85 - Tutorial problem (1 number)
- Lecture 86 - Thermodynamics cycles
- Lecture 87 - Tutorial problem (1 number)
- Lecture 88 - Thermodynamics cycles
- Lecture 89 - Tutorial problem (1 number)

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

NPTEL Video Course - Multi Disciplinary - NOC:Regulatory Requirements for Medical Devices including in Vitro

Subject Co-ordinator - Prof. Malay Mitra, Prof. Aseem Sahu, Prof. Arun B.Ramteke

Co-ordinating Institute - IIT - Madras

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

Lecture 1 - Courses Overview

Lecture 2 - Medical device and in vitro diagnostics

Lecture 3 - Medical Device Rules, 2017

Lecture 4 - Classification of medical devices

Lecture 5 - Labelling of medical devices and in vitro diagnostics

Lecture 6 - Standards of medical device, quality assurance and testing

Lecture 7 - Regulatory requirements of biocompatibility of medical devices and ISO 10993

Lecture 8 - Clinical investigation of medical devices, regulation of investigational medical devices

Lecture 9 - Quality assurance and quality management system

Lecture 10 - How to obtain a licence to manufacture a medical device?

Lecture 11 - ISO 14971 (Medical devices)

Lecture 12 - Inspection of medical device and IVD establishments

Lecture 13 - Import and export of medical devices and IVDs

Lecture 14 - Medical device regulation

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

NPTEL Video Course - Multi Disciplinary - NOC:Current Regulatory Requirements for Conducting Clinical Trials

Subject Co-ordinator - Prof. Nandini K Kumar, Prof. Y. K. Gupta, Prof. D. K. Sable, Prof. Arun B. Ramteke, Pr

Co-ordinating Institute - IIT - Madras

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

Lecture 1 - Courses Overview

Lecture 2 - Overview of Indian regulatory system

Lecture 3 - Overview of Drugs and Cosmetics Act and Rules thereunder

Lecture 4 - Overview of New Drugs and Clinical Trials Rules, 2019

Lecture 5 - Pre-Clinical Data Requirements

Lecture 6 - Rules Governing Clinical Trials

Lecture 7 - Phases of clinical trial, forms, and fees

Lecture 8 - Regulatory pathway and data requirements for NDCT, 2019

Lecture 9 - BA/BE study and study centers

Lecture 10 - Guidelines to conduct BA/BE studies

Lecture 11 - Ethics Committee registration and re-registration

Lecture 12 - Ethical Considerations

Lecture 13 - Good Clinical Practice

Lecture 14 - Requirements for import/manufacture of new drug/IND for conducting clinical trials in India

Lecture 15 - Requirements for import/manufacture of new drug/IND for sale/ distribution and unapproved new dr

Lecture 16 - Important issues

Lecture 17 - Special concern

Lecture 18 - Clinical trial related guidelines (NDCT Rules)

Lecture 19 - Content of Proposed Clinical Trial Protocol

Lecture 20 - Content of a Clinical Trial Report

Lecture 21 - Post Marketing Assessment and Clinical Trial Compensation

Lecture 22 - Common observations during submission of CT/BA/BE protocol

Lecture 23 - Common observations during CT/BA/BE centre inspections

Lecture 24 - Drug development process

Lecture 25 - Salient feature of NDCT 2019 - what's new in NDCT?

Lecture 26 - Online Submission 23A

Lecture 27 - Online Submission (CTRI)

Lecture 28 - Tables Given in NDCT 2019 and its Content

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

NPTEL Video Course - Multi Disciplinary - NOC:Model Predictive Control: Theory and Applications

Subject Co-ordinator - Dr. Niket S.Kaisare

Co-ordinating Institute - IIT - Madras

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

Lecture 1 - Course Background: Model Predictive Control
Lecture 2 - Course Outline
Lecture 3 - Additional MATLAB Video - Array Operations
Lecture 4 - Additional MATLAB Video - Array Operations
Lecture 5 - Recap: Linear Algebra
Lecture 6 - Recap: Differential and Difference Equations
Lecture 7 - Recap: Process Control Basics
Lecture 8 - Introduction to Model Predictive Control
Lecture 9 - MPC: Salient Features
Lecture 10 - MPC: Historical Perspective
Lecture 11 - Vectors and Matrices
Lecture 12 - Vector Spaces
Lecture 13 - Linear Operation
Lecture 14 - Null and Image Spaces
Lecture 15 - Eigenvalues and Eigenvectors
Lecture 16 - Eigenvalue Decomposition and Tutorial
Lecture 17 - Recap of Week-2
Lecture 18 - Model Classification
Lecture 19 - Discrete-Time Models Overview
Lecture 20 - Discrete-Time Models
Lecture 21 - Finite Impulse Response Models
Lecture 22 - Finite Step Response Models
Lecture 23 - Recap and Plan for Week-4
Lecture 24 - State Space and Step Response Models
Lecture 25 - Nonlinear Models and Model Linearization
Lecture 26 - Model Types and Model Conversion
Lecture 27 - Model Conversion - 2
Lecture 28 - Model Conversion: TF to SS
Lecture 29 - How to handle MIMO systems

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

- Lecture 30 - Discretization of State-Space Models
- Lecture 31 - Introduction to Dynamic Matrix Control (DMC)
- Lecture 32 - The DMC Algorithm: Future Predictions
- Lecture 33 - The DMC Algorithm: Objective and Constraints
- Lecture 34 - The DMC Algorithm: Optimization
- Lecture 35 - Coding for DMC Algorithm: Setup
- Lecture 36 - Coding for DMC Algorithm: Populate Matrices
- Lecture 37 - Recap of DMC Algorithm
- Lecture 38 - Extensions of DMC Algorithm
- Lecture 39 - LTI Models and Coordinate Transform
- Lecture 40 - LTI Models: Stability
- Lecture 41 - LTI Models: Controllability
- Lecture 42 - LTI Models: Conditions for controllability
- Lecture 43 - Tutorial by Arvind (Recap of Controllability)
- Lecture 44 - LTI Models: Observability
- Lecture 45 - Linear Control: Introduction
- Lecture 46 - Pole Placement Controller
- Lecture 47 - Linear Quadratic Regulator: Batch Solution
- Lecture 48 - LQR: Dynamic Programming Solution
- Lecture 49 - State Estimation: Introduction
- Lecture 50 - Stochastic Processes and Random Variables
- Lecture 51 - State Estimation: Pole Placement Observer
- Lecture 52 - Kalman Filter: Terminology
- Lecture 53 - Kalman Filter: Derivation
- Lecture 54 - Recap of Modules 7-9
- Lecture 55 - Recap and Plan for this week
- Lecture 56 - Linear Quadratic Gaussian
- Lecture 57 - LQG Derivation and Separation Principle
- Lecture 58 - Setpoint Tracking in LQ Control
- Lecture 59 - Disturbance Rejection in LQ Control
- Lecture 60 - Disturbance Modeling for Estimation
- Lecture 61 - Estimation with Disturbance Modeling
- Lecture 62 - Recap and Plan for this week
- Lecture 63 - State-Space MPC: Deterministic case
- Lecture 64 - Extension to Measured Disturbances
- Lecture 65 - Offset-Free State Space MPC
- Lecture 66 - Comparison of State-Space MPC with DMC
- Lecture 67 - State-Space MPC: Disturbance Modeling
- Lecture 68 - Disturbance Modeling: Background and Setup

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

- Lecture 69 - Stochastic Output-Feedback State-Space MPC
- Lecture 70 - Bonus Video: Disturbance Modeling for State Space MPC
- Lecture 71 - Self-Guided Tutorial of MPC Toolbox
- Lecture 72 - Help Session: Using MPC Toolbox
- Lecture 73 - Recap of LQ Control and Linear MPC
- Lecture 74 - Linear MPC - Key Features and Results
- Lecture 75 - Practical Issues: Inferential Control
- Lecture 76 - Practical Issues: Measurement Delay
- Lecture 77 - Other Practical Issues
- Lecture 78 - Some Classical Examples of MPC

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

NPTEL Video Course - Multi Disciplinary - NOC:Research Methodology

Subject Co-ordinator - Prof. Soumitro Banerjee

Co-ordinating Institute - IIT - Madras

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

- Lecture 1 - What is Science? - Part 1
- Lecture 2 - What is Science? - Part 2
- Lecture 3 - Subjective Thinking Versus Objective Thinking
- Lecture 4 - Idealism Versus Materialism
- Lecture 5 - Causality - Part 1
- Lecture 6 - Causality - Part 2
- Lecture 7 - Logical Reasoning: Inductive Logic
- Lecture 8 - Logical Reasoning: Deductive Logic - Part 1
- Lecture 9 - Logical Reasoning: Deductive Logic - Part 2
- Lecture 10 - Logical Reasoning: Syllogistic Logic - Part 1
- Lecture 11 - Logical Reasoning: Syllogistic Logic - Part 2
- Lecture 12 - Logical Reasoning: Syllogism Logic, Truth and Validity
- Lecture 13 - Historical Perspective: Emergence of Materialism and Idealism - Part 1
- Lecture 14 - Historical Perspective: Emergence of Materialism and Idealism - Part 2
- Lecture 15 - Historical Perspective: Renaissance to the Development of Mechanical Materialism - Part 1
- Lecture 16 - Historical Perspective: Renaissance to the Development of Mechanical Materialism - Part 2
- Lecture 17 - Historical Perspective: The Advent of Empiricism and the Idea of Evolution
- Lecture 18 - Historical Perspective: Science in Ancient India
- Lecture 19 - Historical Perspective: The Advent of Scientific Materialism - Part 1
- Lecture 20 - Historical Perspective: The Advent of Scientific Materialism - Part 2
- Lecture 21 - Historical Perspective: The Rise and Fall of Positivism - Part 1
- Lecture 22 - Historical Perspective: The Rise and Fall of Positivism - Part 2
- Lecture 23 - What Scientists Actually Do - Part 1
- Lecture 24 - What Scientists Actually Do - Part 2
- Lecture 25 - Falsifiability and Reproducibility - Part 1
- Lecture 26 - Falsifiability and Reproducibility - Part 2
- Lecture 27 - Proposing a Hypothesis - Part 1
- Lecture 28 - Proposing a Hypothesis - Part 2
- Lecture 29 - Elements of Scientific Measurement - Part 1

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

- Lecture 30 - Elements of Scientific Measurement - Part 2
- Lecture 31 - The Central Limit Theorem and its Applications - Part 1
- Lecture 32 - The Central Limit Theorem and its Applications - Part 2
- Lecture 33 - Error Bars and Confidence Interval - Part 1
- Lecture 34 - Error Bars and Confidence Interval - Part 2
- Lecture 35 - Measurement of a Proportion - Part 1
- Lecture 36 - Measurement of a Proportion - Part 2
- Lecture 37 - Examples of Proportion Measurement
- Lecture 38 - Box and Whisker Plot
- Lecture 39 - Propagation of Errors - Part 1
- Lecture 40 - Propagation of Errors - Part 2
- Lecture 41 - Issues in Hypothesis Testing - Part 1
- Lecture 42 - Issues in Hypothesis Testing - Part 2
- Lecture 43 - Statistical Methods in Hypothesis Testing: Z-Test and T-Test - Part 1
- Lecture 44 - Statistical Methods in Hypothesis Testing: Z-Test and T-Test - Part 2
- Lecture 45 - Hypothesis Testing: The Chi-Square Test - Part 1
- Lecture 46 - Hypothesis Testing: The Chi-Square Test - Part 2
- Lecture 47 - Hypothesis Testing: The Chi-Square Test - Part 3
- Lecture 48 - Hypothesis Testing: The Chi-Square Test - Part 4
- Lecture 49 - Theoretical Research: Functional Relationships from Experimental Data - Part 1
- Lecture 50 - Theoretical Research: Functional Relationships from Experimental Data - Part 2
- Lecture 51 - Theoretical Research: Mathematical Models of Physical Systems
- Lecture 52 - Order of Magnitude Calculations
- Lecture 53 - Theoretical Research: Modeling Using Dimensional Analysis - Part 1
- Lecture 54 - Theoretical Research: Modeling Using Dimensional Analysis - Part 2
- Lecture 55 - An Example of Mathematical Modeling
- Lecture 56 - Importance of Theory-Building in Science
- Lecture 57 - Scientific Writing: Journal Papers - Part 1
- Lecture 58 - Scientific Writing: Journal Papers - Part 2
- Lecture 59 - Scientific Writing: Journal Papers - Part 3
- Lecture 60 - Scientific Writing: Journal Papers - Part 4
- Lecture 61 - Scientific Writing: PhD Thesis
- Lecture 62 - Scientific Writing: Text Stylistics
- Lecture 63 - Presentation in Scientific Conferences - Part 1
- Lecture 64 - Presentation in Scientific Conferences - Part 2
- Lecture 65 - Writing Grant Proposals - Part 1
- Lecture 66 - Writing Grant Proposals - Part 2
- Lecture 67 - Ethical Conduct in Science: Aspects of Scientific Ethics
- Lecture 68 - Ethical Conduct in Science: Research Misconduct

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

- Lecture 69 - Ethical Conduct in Science: Ethics in Scientific Publication - Part 1
- Lecture 70 - Ethical Conduct in Science: Ethics in Scientific Publication - Part 2
- Lecture 71 - Ethical Conduct in Science: Cases of Scientific Misconduct - Part 1
- Lecture 72 - Ethical Conduct in Science: Cases of Scientific Misconduct - Part 2

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

NPTEL Video Course - Multi Disciplinary - NOC:Management of Medical Emergencies in Dental Practice

Subject Co-ordinator - Multifaculty

Co-ordinating Institute - IIT - Madras

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

Lecture 1 - Vasovagal Syncope

Lecture 2 - Vasovagal Syncope - Clinical Scenario

Lecture 3 - Postural Hypotension

Lecture 4 - Postural Hypotension - Clinical Scenario

Lecture 5 - Hyperventilation

Lecture 6 - Hyperventilation - Clinical Scenario

Lecture 7 - Asthma - Status Asthmaticus - Part 1

Lecture 8 - Asthma - Status Asthmaticus - Part 2

Lecture 9 - Asthma - Clinical Scenario

Lecture 10 - Chest Pain Of Cardiac Origin - Myocardial Infarction And Anigina Pectoris - Part 1

Lecture 11 - Chest Pain Of Cardiac Origin - Myocardial Infarction And Anigina Pectoris - Part 2

Lecture 12 - Chest Pain - Clinical Scenario

Lecture 13 - Acute Adrenal Insufficiency

Lecture 14 - Acute Adrenal Insufficiency - Clinical Scenario

Lecture 15 - Diabetes Mellitus

Lecture 16 - Diabetes Mellitus - Clinical Scenario

Lecture 17 - Throid Dysfunction

Lecture 18 - Allergies/Hypersensitivity Reaction - Part 1

Lecture 19 - Allergies/Hypersensitivity Reaction - Part 2

Lecture 20 - Epilepsy- Status Epilepticus

Lecture 21 - Chronic Kidney Disease

Lecture 22 - Hepatic Dysfunction

Lecture 23 - Basic Life Support - Part 1

Lecture 24 - Basic Life Support - Part 2

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

NPTEL Video Course - Multi Disciplinary - NOC:Basic Course in Ornithology

Subject Co-ordinator - Prof. Mousumi Ghosh, Prof. Manjari Jain, Prof. R Jayapal, Prof. Anand Krishnan, Prof.

Co-ordinating Institute - IIT - Madras

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

- Lecture 1 - Introduction to Ornithology
- Lecture 2 - Diversity and Classification - Part 1
- Lecture 3 - Diversity and Classification - Part 2
- Lecture 4 - Evolution and Speciation - Part 1
- Lecture 5 - Evolution and Speciation - Part 2
- Lecture 6 - Anatomy
- Lecture 7 - Physiology
- Lecture 8 - Colour
- Lecture 9 - Life History
- Lecture 10 - Foraging Behaviour
- Lecture 11 - Mating and Breeding Behaviour
- Lecture 12 - Social Behaviour
- Lecture 13 - Methods of Science and Research Questions
- Lecture 14 - Vocal Behaviour: Mechanisms - Part 1
- Lecture 15 - Vocal Behaviour: Mechanisms - Part 2
- Lecture 16 - Vocal Behaviour: Ecology and Evolution - Part 1
- Lecture 17 - Vocal Behaviour: Ecology and Evolution - Part 2
- Lecture 18 - Vocal Mimicry in Birds
- Lecture 19 - Basics of Research Design
- Lecture 20 - Bird Migration - LIVE Guest Lecture
- Lecture 21 - Bird Populations: Concepts
- Lecture 22 - Bird Communities: Concepts - Part 1
- Lecture 23 - Bird Communities: Concepts - Part 2
- Lecture 24 - Interactive Session by Dr Mousumi Ghosh (NCF) and Dr Umesh Srinivasan (IISc)
- Lecture 25 - Studying bird populations and communities - Part 1
- Lecture 26 - Studying bird populations and communities - Part 2
- Lecture 27 - Mixed Species Flocks - Live Session
- Lecture 28
- Lecture 29 - Introduction to Data Visualisation Analysis - Part 1

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

- Lecture 30 - Introduction to Data Visualisation Analysis - Part 2
- Lecture 31 - Basic Course in Ornithology - Guest Session on Avian Diseases
- Lecture 32 - Biogeography
- Lecture 33 - Macroecology
- Lecture 34 - Macroecology - Case Study - LIVE
- Lecture 35 - Week 10 Interactive session with Dr VV Robin and Dr Umesh Srinivasan
- Lecture 36 - Bird Conservation - Concepts
- Lecture 37 - Avian Conservation: Case study 1
- Lecture 38 - Avian Conservation: Case study 2
- Lecture 39 - Avian Conservation: Case study 3
- Lecture 40 - Avian Conservation: Case study 4
- Lecture 41 - Avian Conservation: Case study 5
- Lecture 42
- Lecture 43 - Molecular Techniques - Part 1
- Lecture 44 - Molecular Techniques - Part 2

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

NPTEL Video Course - Multi Disciplinary - NOC:Oral Biology

Subject Co-ordinator - Multifaculty

Co-ordinating Institute - IIT - Madras

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

- Lecture 1 - Craniofacial anatomy - Part 1
- Lecture 2 - Craniofacial anatomy - Part 2
- Lecture 3 - Tooth and It's Supporting Structures - Part 1
- Lecture 4 - Tooth and It's Supporting Structures - Part 2
- Lecture 5 - Specialised mucosa
- Lecture 6 - Saliva-Composition and functions
- Lecture 7 - Saliva Diagnostics
- Lecture 8 - Stem cells in the oro-dental region
- Lecture 9 - Stem cell isolation
- Lecture 10 - Mineralization dynamics - Part 1
- Lecture 11 - Mineralization dynamics - Part 2
- Lecture 12 - TMJ Anatomy and Function
- Lecture 13 - Oral defense mechanisms
- Lecture 14 - Mucosal and regional immunology
- Lecture 15 - Oral microbiome
- Lecture 16 - Evaluation of Oral microbiome
- Lecture 17 - Dysbiosis
- Lecture 18 - Molecular mechanisms in oral cancer
- Lecture 19 - Flow cytometry in cell and molecular biology
- Lecture 20 - Basics of Biomaterial science and engineering
- Lecture 21 - Biomimetics - Part 1
- Lecture 22 - Biomimetics - Part 2
- Lecture 23 - Biomaterials - Polymers
- Lecture 24 - Biomaterials - Metals
- Lecture 25 - Biomaterials - Ceramics and Colloids
- Lecture 26 - 3-D Bioprinting
- Lecture 27 - Protein mediated biomaterials
- Lecture 28 - Immune response to biomaterials
- Lecture 29 - Biomaterial Applications

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

Lecture 30 - Biocompatible assays

Lecture 31 - Immunoassay

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

NPTEL Video Course - Multi Disciplinary - NOC:Introduction to Biomimicry

Subject Co-ordinator - Prof. Sivakumar Srinivasan, Prof. Satya Seshadri, Prof. Mrinalini, Prof. Shiva Subrama

Co-ordinating Institute - IIT - Madras

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

- Lecture 1 - Course overview
- Lecture 2 - What is biomimicry ?
- Lecture 3 - Why is biomimicry important ?
- Lecture 4 - Nature's unifying patterns - Introduction
- Lecture 5 - Case study
- Lecture 6 - How to do biomimicry ?
- Lecture 7 - Learning resources - Biomimicry Institute
- Lecture 8 - Skills, attitudes and mindset for a biomimic
- Lecture 9 - Course activity
- Lecture 10 - Recap of Week 1
- Lecture 11 - What are we mimicking ?
- Lecture 12 - Function and Strategy
- Lecture 13 - Approaches to biomimicry
- Lecture 14 - From Problem to Solution
- Lecture 15 - Using the UNSDG to identify challenges
- Lecture 16 - Recap of Week 2
- Lecture 17 - Step 1 - Define the problem
- Lecture 18 - Step 2 - Biologize the problem
- Lecture 19 - Step 3 - Discover strategies in nature
- Lecture 20 - Applying the Biomimicry Design Spiral
- Lecture 21 - Step 4 - Abstract design strategies from nature
- Lecture 22 - Step 5 - Emulate nature's strategies in your solution
- Lecture 23 - Step 6 - Evaluate feasibility
- Lecture 24 - How to apply the biomimicry process ?
- Lecture 25 - Recap of Week 4
- Lecture 26 - Nature's Unifying Patterns I
- Lecture 27 - Systems Thinking - Introduction
- Lecture 28 - Systems Thinking - Understanding consequences
- Lecture 29 - Nature's Unifying Patterns II

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

- Lecture 30 - Tools - Mind mapping
- Lecture 31 - Using biomimicry to design a solution
- Lecture 32 - Recap of Week 6
- Lecture 33 - Developing creative confidence
- Lecture 34 - Learning from the biomimicry process
- Lecture 35 - The need for creativity in our lives
- Lecture 36 - Unlocking your creativity
- Lecture 37 - Taking your biomimicry ideas to market
- Lecture 38 - The journey so far
- Lecture 39 - Finding the hero in you
- Lecture 40 - Course wrap-up

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

NPTEL Video Course - Multi Disciplinary - NOC:Electrocardiogram - Interpretation and Application in Clinical

Subject Co-ordinator - Multi-faculty

Co-ordinating Institute - IIT - Madras

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

Lecture 1 - Introduction - Electrocardiogram - Interpretation and application in clinical practice

Lecture 2 - Basic Conduction of Heart

Lecture 3 - ECG Lead system

Lecture 4 - Recording of a Standard ECG (Lead placements and measurements)

Lecture 5 - Waveforms, Intervals and Segments

Lecture 6 - Vector Electrocardiography

Lecture 7 - From Action Potentials to Arrhythmias

Lecture 8 - Pathophysiology, Myocardial Ischemia / Injury

Lecture 9 - Myocardial Infarction (MI), Pathophysiology

Lecture 10 - Drug effects on ECG

Lecture 11 - Patient identification, preparation and interpretation of ECG

Lecture 12 - Sinus rhythms and Bradyarrhythmias

Lecture 13 - Approach to tachyarrhythmias

Lecture 14 - AV Blocks and Bundle Branch Block

Lecture 15 - Chamber enlargement and Heart Failure

Lecture 16 - Electrolyte Abnormalities on ECG

Lecture 17 - Recognizing signs and ECG changes in Myocardial Ischemia/Injury

Lecture 18 - ECG changes in myocardial infarction

Lecture 19 - Miscellaneous ECG findings and cardiac arrest

Lecture 20 - Pacemaker Rhythms

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

NPTEL Video Course - Multi Disciplinary - NOC:One Health

Subject Co-ordinator - Multi Faculty

Co-ordinating Institute - IIT - Madras

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

- Lecture 1 - Introduction to the One Health Concept and National and International health/public health agencies
- Lecture 2 - Global Health vs One Health
- Lecture 3 - Basics of Research Ethics
- Lecture 4 - Integrated human and animal disease surveillance systems
- Lecture 5 - Emerging infectious diseases
- Lecture 6 - Process of disease emergence and assessment of the risk factors
- Lecture 7 - Mechanisms of pathogen cross over across species boundaries
- Lecture 8 - Importance of disease detection, Identification and monitoring in public health
- Lecture 9 - Introduction to disease vectors and basics of Medical Entomology
- Lecture 10 - The factors influencing an emerging disease
- Lecture 11 - Antimicrobial resistance a global threat and Importance of antibiotic stewardship program
- Lecture 12 - Introduction of Food safety and food borne diseases
- Lecture 13 - What are zoonotic diseases and its role in our changing world
- Lecture 14 - The integration of human, animal and ecosystem health in control and prevention of these diseases
- Lecture 15 - Community engagement for zoonotic disease control in humans and animals through One Health
- Lecture 16 - Basics of Epidemiological Studies
- Lecture 17 - Rapid Response system, Disaster Management and Outbreak Investigation Plans
- Lecture 18 - Basic statistical methods and their application and the measurement of disease frequency
- Lecture 19 - Principles of survey design and the concepts of sampling and Mixed method research
- Lecture 20 - Introduction to health policy
- Lecture 21 - Risk Communication and Pandemic Preparedness
- Lecture 22 - Role of community in disease control and ways for community engagement
- Lecture 23 - Uses of different types of media for communication

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

NPTEL Video Course - Multi Disciplinary - NOC:Canning Technology, Value Addition of Seafood (Fish Processing)

Subject Co-ordinator - Dr. Abhilash Sasidharan, Dr. Maya Raman

Co-ordinating Institute - KUFOS Panangad

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

- Lecture 1 - Course overview Canning technology and Value addition of sea food
- Lecture 2 - Introduction and the concept of canning technology
- Lecture 3 - History of canning technology - Part 1
- Lecture 4 - History of canning technology - Part 2
- Lecture 5 - Canning Technology and Value Addition Containers and their Properties - Part 1
- Lecture 6 - Canning Technology and Value Addition Containers and their Properties - Part 2
- Lecture 7 - Canning Technology and Value Addition Containers and their Properties - Part 3
- Lecture 8 - Canning Technology and Value Addition Containers and their Properties - Part 4
- Lecture 9 - Canning Technology and Value Addition - Canning process - Part 1
- Lecture 10 - Canning Technology and Value Addition - Canning process - Part 2
- Lecture 11 - Canning Technology and Value Addition - Thermal process calculations - Part 1
- Lecture 12 - Canning Technology and Value Addition - Thermal process calculations - Part 2
- Lecture 13 - Microbiology and spoilage of canned food - Part 1
- Lecture 14 - Microbiology and spoilage of canned food - Part 2
- Lecture 15 - Process of seafood canning - Part 1
- Lecture 16 - Process of seafood canning - Part 2
- Lecture 17 - Seafood pre-processing - Part 1
- Lecture 18 - Seafood pre-processing - Part 2
- Lecture 19 - Additives - Part 1
- Lecture 20 - Additives - Part 2
- Lecture 21 - SOP for seafood canning - Part 1
- Lecture 22 - SOP for seafood canning - Part 2
- Lecture 23 - SOP for seafood canning - Part 3
- Lecture 24 - Nutritional quality of seafood
- Lecture 25 - Muscle structure of seafood
- Lecture 26 - Spoilage in seafood
- Lecture 27 - Preservation methods
- Lecture 28 - Value addition in thermally processed foods
- Lecture 29 - Quality standards for seafood value added products - Part 1

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

- Lecture 30 - Quality standards for seafood value added products - Part 2
- Lecture 31 - Quality standards for seafood value added products - Part 3

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

NPTEL Video Course - Multi Disciplinary - NOC:Food Packaging Technology

Subject Co-ordinator - Dr. Jenny Ann John, Dr. Maya Raman

Co-ordinating Institute - KUFOS Panangad

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

- Lecture 1 - Course overview
- Lecture 2 - Introduction
- Lecture 3 - Paper as packaging material - Part 1
- Lecture 4 - Paper as packaging material - Part 2
- Lecture 5 - Paper as packaging material - Part 3
- Lecture 6 - Glass as packaging material
- Lecture 7 - Metal as packaging material - Part 1
- Lecture 8 - Metal as packaging material - Part 2
- Lecture 9 - Plastic as packaging material - Part 1
- Lecture 10 - Plastic as packaging material - Part 2
- Lecture 11 - Introduction to packaging system
- Lecture 12 - Product characteristics and packaging requirements
- Lecture 13 - Rigid, semi-rigid, flexible packaging forms - Part 1
- Lecture 14 - Rigid, semi-rigid, flexible packaging forms - Part 2
- Lecture 15 - Designing of packaging material
- Lecture 16 - Testing of packaging material - Part 1
- Lecture 17 - Testing of packaging material - Part 2
- Lecture 18 - Testing of packaging material - Part 3
- Lecture 19 - Testing of packaging material - Part 4
- Lecture 20 - Testing of package performance
- Lecture 21 - Principles developing safe and protective packing
- Lecture 22 - Transport worthiness test - Part 1
- Lecture 23 - Transport worthiness test - Part 2
- Lecture 24 - Transport worthiness test - Part 3
- Lecture 25 - Safety aspects of food packaging
- Lecture 26 - Packaging accessories and advances in packaging
- Lecture 27 - Active packaging - Part 1
- Lecture 28 - Active packaging - Part 2
- Lecture 29 - MA and Aseptic packaging

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

- Lecture 30 - Edible packaging - Part 1
- Lecture 31 - Edible packaging - Part 2
- Lecture 32 - Vacuum packing machine
- Lecture 33 - CA and MA packing machine
- Lecture 34 - Gas packing machine
- Lecture 35 - Seal and shrink packing machine
- Lecture 36 - Form fill sealing machine
- Lecture 37 - Aseptic packaging systems
- Lecture 38 - Retort pouches
- Lecture 39 - Bottling machine - Part 1
- Lecture 40 - Bottling machine - Part 2
- Lecture 41 - Carton making machine
- Lecture 42 - Package printing machines - Part 1
- Lecture 43 - Package printing machines - Part 2

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

NPTEL Video Course - Multi Disciplinary - NOC:Teaching and Learning in Engineering (TALE)

Subject Co-ordinator - Prof. N.J. Rao

Co-ordinating Institute - IISc - Bangalore

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

- Lecture 1 - Overview of TALE and Good Engineer
- Lecture 2 - Education and Teaching
- Lecture 3 - Learning, Instruction and Assessment
- Lecture 4 - What is OBE?
- Lecture 5 - Accreditation
- Lecture 6 - Outcomes
- Lecture 7 - Program Outcomes - 1
- Lecture 8 - Program Outcomes - 2
- Lecture 9 - Taxonomy of Learning
- Lecture 10 - Cognitive Levels
- Lecture 11 - General Categories of Knowledge
- Lecture 12 - Metacognitive Knowledge
- Lecture 13 - Vincenti Categories of Engineering Knowledge
- Lecture 14 - Affective and Psychomotor Domains
- Lecture 15 - Taxonomy Table
- Lecture 16 - Course Outcomes - 1
- Lecture 17 - Course Outcomes - 2
- Lecture 18 - Course Outcomes - POs and PSOs
- Lecture 19 - Attainment of COs
- Lecture 20 - Attainment of POs and PSOs

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

NPTEL Video Course - Multi Disciplinary - NOC:Teaching and Learning in General Programs

Subject Co-ordinator - Prof. N.J. Rao

Co-ordinating Institute - IISc - Bangalore

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

Lecture 1 - Teaching and Learning in General Programs (TALG)

Lecture 2 - Education and Teaching

Lecture 3 - Learning, Assessment and Instruction

Lecture 4 - Outcome Based Education (OBE)

Lecture 5 - Accreditation

Lecture 6 - Program Outcomes

Lecture 7 - POs and PSOs

Lecture 8 - Taxonomy of Learning

Lecture 9 - Taxonomy of Learning

Lecture 10 - Taxonomy of Learning

Lecture 11 - Taxonomy of Learning

Lecture 12 - Affective Domain

Lecture 13 - Psychomotor Domain

Lecture 14 - Taxonomy Tables

Lecture 15 - Course Outcomes - 1

Lecture 16 - Course Outcomes - 2

Lecture 17 - Tagging the Course Outcomes

Lecture 18 - Attainment of Course Outcomes

Lecture 19 - Attainment of POs and PSOs

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

NPTEL Video Course - Multi Disciplinary - NOC:TALE 2 - Course Design and Instruction of Engineering Courses

Subject Co-ordinator - Prof K Rajani Kanth

Co-ordinating Institute - IISc - Bangalore

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

Lecture 1 - Engineering Programs, NBA Accreditation and Engineering Courses

Lecture 2 - Course Design

Lecture 3 - ISD and ADDIE

Lecture 4 - Analysis Phase - 1

Lecture 5 - Analysis Phase - 2

Lecture 6 - Design Phase

Lecture 7 - Technology and Targets

Lecture 8 - Assessment Pattern and Assessment Instruments

Lecture 9 - Item Banks

Lecture 10 - Development Phase

Lecture 11 - Instruction Material and Learning Material

Lecture 12 - Implement Phase - 1

Lecture 13 - Implement Phase - 2

Lecture 14 - Evaluate Phase

Lecture 15 - Course Exit Survey

Lecture 16 - Evaluating Laboratories and Electives

Lecture 17 - Exit Surveys for Projects

Lecture 18 - Summary Feedback

Lecture 19 - Instruction

Lecture 20 - Instructional Situations

Lecture 21 - How Brains Learn - 1

Lecture 22 - How Brains Learn - 2

Lecture 23 - How Brains Learn - 3

Lecture 24 - Instructional Components - 1

Lecture 25 - Instructional Components - 2

Lecture 26 - Merrill's Principles of Learning

Lecture 27 - ID based on Merrill's Principles

Lecture 28 - Direct Approach to Instruction

Lecture 29 - Project Based Approach to Instruction

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

- Lecture 30 - Problem Based Approach to Instruction
- Lecture 31 - Experiential Approach to Instruction
- Lecture 32 - Simulation Approach to Instruction
- Lecture 33 - Instruction for Design
- Lecture 34 - Instruction for Metacognitive Learning
- Lecture 35 - So, what should a teacher do?

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

NPTEL Video Course - Multi Disciplinary - NOC:NBA Accreditation and Teaching Learning in Engineering (NATE)

Subject Co-ordinator - Prof. N J Rao, Prof. K. Rajanikanth

Co-ordinating Institute - IISc - Bangalore

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

- Lecture 1 - NATE
- Lecture 2 - NBA Accreditation
- Lecture 3 - Outcome Based Education
- Lecture 4 - Self Assessment Report
- Lecture 5 - Education, Teaching, Learning, Instruction, and Assessment
- Lecture 6 - PEOs and POs (1-5)
- Lecture 7 - POs (6-9)
- Lecture 8 - POs (10-12)
- Lecture 9 - PSOs
- Lecture 10 - Taxonomy of Learning
- Lecture 11 - Cognitive Processes - 1
- Lecture 12 - Cognitive Processes - 2
- Lecture 13 - Categories of Knowledge - 1
- Lecture 14 - Categories of Knowledge - 2
- Lecture 15 - Taxonomy Table
- Lecture 16 - Affective and Psychomotor Domains
- Lecture 17 - Course Outcomes - 1
- Lecture 18 - Course Outcomes - 2
- Lecture 19 - Tagging Course Outcomes
- Lecture 20 - Computing Attainment of COs
- Lecture 21 - Computing PO and PSO Attainment
- Lecture 22 - Course Design Component of Teaching as per Fink's Model
- Lecture 23 - ISD and ADDIE Models
- Lecture 24 - ADDIE - Analysis Phase 1
- Lecture 25 - ADDIE - Analysis Phase 2
- Lecture 26 - ADDIE - Design Phase
- Lecture 27 - Technology for Assessment; Setting Targets
- Lecture 28 - Assessment Plan and Assessment Instruments
- Lecture 29 - Item Banks

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

- Lecture 30 - ADDIE- Development Phase
- Lecture 31 - ADDIE - Implement Phase 1
- Lecture 32 - ADDIE - Implement Phase 2
- Lecture 33 - Exit Surveys - 1
- Lecture 34 - Exit Surveys - 2
- Lecture 35 - ADDIE - Evaluate Phase
- Lecture 36 - Instruction An Overview
- Lecture 37 - Instructional Situations
- Lecture 38 - How Brains Learn
- Lecture 39 - Instructional Components
- Lecture 40 - Principles of Instruction Design
- Lecture 41 - Direct Instruction - 1
- Lecture 42 - Direct Instruction - 2
- Lecture 43 - Project Based Approach to Instruction
- Lecture 44 - Problem Based Approach to Instruction
- Lecture 45 - Instruction for Design thinking
- Lecture 46 - Simulation Approach to Instruction
- Lecture 47 - Instruction for Metacognitive Learning
- Lecture 48 - So, What Should the teacher do?
- Lecture 49 - NBA Criterion 1 Vision, Mission, PEOs - 1
- Lecture 50 - NBA Criterion 1 Vision, Mission, PEOs - 2
- Lecture 51 - NBA Criterion 2 Teaching-Learning Processes - 1
- Lecture 52 - NBA Criterion 2 Teaching-Learning Processes - 2
- Lecture 53 - NBA Criterion 3 COs and POs - 1
- Lecture 54 - NBA Criterion 3 COs and POs - 2
- Lecture 55 - NBA Criterion 4 Students' Performance
- Lecture 56 - NBA Criterion 5 Faculty Information and Contributions
- Lecture 57 - NBA Criterion 6 Facilities and Technical Support
- Lecture 58 - NBA Criterion 7 Continuous Improvement
- Lecture 59 - NBA Criterion 8 First Year Academics
- Lecture 60 - NBA Criterion 9 Student Support Systems
- Lecture 61 - NBA Criterion 10 Governance, Institutional Support and Financial Resources
- Lecture 62 - Summary