

## 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 - Dos and Dont's - Part 1
- Lecture 14 - Dos and Dont's - Part 2
- Lecture 15 - LeDs Takeaway
- Lecture 16 - What is an LbD?
- Lecture 17 - Creating LbDs
- Lecture 18 - Constructive Customized Feedback in LbDs
- Lecture 19 - Giving Feedback for Open Ended Questions
- Lecture 20 - Recommendations for effective LbDs
- Lecture 21 - What is an LxT?
- Lecture 22 - Creating LxTs
- Lecture 23 - Creating an Assimilation Quiz
- Lecture 24 - What is an LxI?
- Lecture 25 - Creating LxIs with Reflection Quiz
- Lecture 26 - Orchestrating your MOOC
- Lecture 27 - Orchestration Dynamics in LCM
- Lecture 28 - Assessment
- Lecture 29 - From Regular course to LCM

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- Lecture 30 - Course Design in MOOC
- Lecture 31 - Maintaining Learner Connect
- Lecture 32 - Implementing the Learner-Centric Approach

# 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...)

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

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 - Introduction
- Lecture 2 - Two Amazing and Inspiring Stories
- Lecture 3 - Myths and Realities About Entrepreneurship
- Lecture 4 - Entrepreneurial Qualities
- Lecture 5 - Why Start-ups Fail
- Lecture 6 - Vision, Mission and Entrepreneurial Qualities
- Lecture 7 - Vision, Mission and Entrepreneurial Qualities (Continued...)
- Lecture 8 - Value Proposition
- Lecture 9 - Business Model generation - I
- Lecture 10 - Business Model generation - II
- Lecture 11 - Competitive Advantage
- Lecture 12 - Lean Startup
- Lecture 13 - Lean Startup (Continued...)
- Lecture 14 - Balanced Founding Team and Early Recruits
- Lecture 15 - Forms of Legal Entities
- Lecture 16 - Marketing for Startups
- Lecture 17 - Marketing for Startups (Continued...)
- Lecture 18 - Marketing Research
- Lecture 19 - Marketing Research (Continued...)
- Lecture 20 - Marketing Research Example
- Lecture 21 - Financial Statements
- Lecture 22 - Financial Statements (Continued...)
- Lecture 23 - Financial Statements (Continued...)
- Lecture 24 - Financial Statements (Continued...)
- Lecture 25 - Financial Statements (Continued...)
- Lecture 26 - Financial Statements (Continued...)
- Lecture 27 - Financial Statements (Continued...)
- Lecture 28 - Break-Even Point (Cost Volume and Profit Analysis)
- Lecture 29 - Break-Even Point (Cost Volume and Profit Analysis) (Continued...)

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- Lecture 30 - Break-Even Point (Cost Volume and Profit Analysis) (Continued...)
- Lecture 31 - Writing Business Plan
- Lecture 32 - Writing Business Plan (Continued...)
- Lecture 33 - Funding your start up
- Lecture 34 - Funding your start up (Continued...)
- Lecture 35 - Funding your start up (Continued...)
- Lecture 36 - Funding your start up (Continued...)
- Lecture 37 - Funding your start up (Continued...)
- Lecture 38 - How to Start a Startup
- Lecture 39 - Go to Market Strategy
- Lecture 40 - Innovation and Entrepreneurship
- Lecture 41 - Innovation and Entrepreneurship (Continued...)
- Lecture 42 - Innovation and Entrepreneurship (Continued...)
- Lecture 43 - Dos and Don'ts

## 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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- 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: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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- 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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- 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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- 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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- 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

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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 - 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: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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