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 Don'ts - Part 1
Lecture 14 - Dos and Don'ts - 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
Lecture 30 - Course Design in MOOC
Lecture 31 - Maintaining Learner Connect
Lecture 32 - Implementing the Learner-Centric Approach

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

Subject Co-ordinator - Prof. Dilip Kumar Pratihar

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 - 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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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 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 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
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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 and rifampicin)
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 AFB
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 (XDR-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
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
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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 Technologhy
Lecture 9 - Definition of Health Risk
Lecture 10 - Transport Of Pollutants in the Environment
Lecture 11 - Assessment of Risk
Lecture 12 - Remediation and Liability
Lecture 13 - Remediation 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 - Develoing Frame Works Of Action
Lecture 35 - Develoing 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 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

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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

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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 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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