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

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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

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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

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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
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