

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

NPTEL Video Course - Mathematics - NOC:Essentials of Topology

Subject Co-ordinator - Prof. S. P. Tiwari

Co-ordinating Institute - IIT-ISM Dhanbad

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

Lecture 1 - Introduction
Lecture 2 - Sets and Functions - I
Lecture 3 - Sets and Functions - II
Lecture 4 - Sets and Functions - III
Lecture 5 - Sets and Functions - IV
Lecture 6 - Metric Spaces
Lecture 7 - Topological Spaces
Lecture 8 - Topological Spaces (Examples)
Lecture 9 - Typologies on \mathbb{R} - I
Lecture 10 - Typologies on \mathbb{R} - II
Lecture 11 - Comparison of topologies
Lecture 12 - Closed sets
Lecture 13 - Basis for a topology - I
Lecture 14 - Basis for a topology - II
Lecture 15 - A topology on \mathbb{R}^2
Lecture 16 - Subbasis and Neighborhood
Lecture 17 - Limit points of sets
Lecture 18 - Closure of sets
Lecture 19 - Interior and boundary of sets
Lecture 20 - Subspaces
Lecture 21 - Product topology
Lecture 22 - Product and Box topologies
Lecture 23 - The Quotient topology
Lecture 24 - Krakowski closure/interior operator
Lecture 25 - Countability axioms - I
Lecture 26 - Countability axioms - II
Lecture 27 - Countability axioms - III
Lecture 28 - Continuous functions - I
Lecture 29 - Continuous functions - II

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- Lecture 30 - Continuous functions - III
- Lecture 31 - Continuous functions - IV
- Lecture 32 - Homeomorphisms - I
- Lecture 33 - Homeomorphisms - II
- Lecture 34 - Homeomorphisms - III
- Lecture 35 - Connectedness - I
- Lecture 36 - Connectedness - II
- Lecture 37 - Connectedness - III
- Lecture 38 - Connectedness - IV
- Lecture 39 - Connectedness - V
- Lecture 40 - Connectedness - VI
- Lecture 41 - Connectedness - VII
- Lecture 42 - Connectedness - VIII
- Lecture 43 - Path connectedness - I
- Lecture 44 - Path connectedness - II
- Lecture 45 - Path connectedness - III
- Lecture 46 - Path components and Local connectedness
- Lecture 47 - Local connectedness
- Lecture 48 - Local path connectedness
- Lecture 49 - Compactness - I
- Lecture 50 - Compactness - II
- Lecture 51 - Compactness - III
- Lecture 52 - Compactness - IV
- Lecture 53 - Compactness - V
- Lecture 54 - Compactness - VI
- Lecture 55 - Compactness - VII
- Lecture 56 - Compactness - VIII
- Lecture 57 - Compactness - IX
- Lecture 58 - Compactness - X
- Lecture 59 - One-point compactifications - I
- Lecture 60 - One-point compactifications - II
- Lecture 61 - Separation axioms - I
- Lecture 62 - Separation axioms - II
- Lecture 63 - Separation axioms - III
- Lecture 64 - Separation axioms - IV
- Lecture 65 - Separation axioms - V
- Lecture 66 - Separation axioms - VI
- Lecture 67 - Separation axioms - VII
- Lecture 68 - Separation axioms - VIII

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- Lecture 69 - Tychonoff theorem - I
- Lecture 70 - Tychonoff theorem - II
- Lecture 71 - Stone-Cech compactification - I
- Lecture 72 - Stone-Cech compactification - II