

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

NPTEL Video Course - Mathematics - NOC:An Introduction to Point-Set-Topology - Part II

Subject Co-ordinator - Prof. Anant R Shastri

Co-ordinating Institute - IIT - Bombay

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

- Lecture 1 - Welcome Speech
- Lecture 2 - Preliminaries from Banach spaces
- Lecture 3 - Differentiation on Banach spaces
- Lecture 4 - Preliminaries from one-variable real analysis
- Lecture 5 - Implicit and Inverse function theorems
- Lecture 6 - Compact Hausdorff spaces
- Lecture 7 - Local Compactness
- Lecture 8 - Local Compactness (Continued...)
- Lecture 9 - The retraction functor $k(X)$
- Lecture 10 - Compactly generated spaces
- Lecture 11 - Paracompactness
- Lecture 12 - Partition of Unity
- Lecture 13 - Paracompactness (Continued...)
- Lecture 14 - Paracompactness (Continued...)
- Lecture 15 - Various Notions of Compactness
- Lecture 16 - Total Boundedness
- Lecture 17 - Arzel`a- Ascoli Theorem
- Lecture 18 - Generalities on Compactification
- Lecture 19 - Alexandroff's compactification
- Lecture 20 - Proper maps
- Lecture 21 - Stone-Cech compactification
- Lecture 22 - Stone-Weierstrass's Theorems
- Lecture 23 - Real Stone-Weierstrass Theorem
- Lecture 24 - Complex and extended Stone-Weierstrass theorem
- Lecture 25 - (Missing)
- Lecture 26 - Urysohn's Metrization theorem
- Lecture 27 - Nagata Smyrnov Metrization theorem
- Lecture 28 - Nets
- Lecture 29 - Cofinal families subnets

Get DIGIMAT For High-Speed Video Streaming of NPTEL and Educational Video Courses in LAN

<http://www.digimat.in>

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

- Lecture 30 - Basics of Filters
- Lecture 31 - Convergence Properties of Filters
- Lecture 32 - Ultrafilters and Tychonoff's theorem
- Lecture 33 - Ultraclosed filters
- Lecture 34 - Wallman compactification
- Lecture 35 - Wallman compactification (Continued...)
- Lecture 36 - Global Separation of Sets
- Lecture 37 - More examples
- Lecture 38 - Knaster-Kuratowski Example
- Lecture 39 - Separation of Sets (Continued...)
- Lecture 40 - Definition of dimension and examples
- Lecture 41 - Dimensions of subspaces and Unions
- Lecture 42 - Sum theorem for higher dimensions
- Lecture 43 - Analytic Proof of Brouwer's Fixed Point Theorem
- Lecture 44 - Local Separation to Global Separation
- Lecture 45 - Partially Ordered sets
- Lecture 46 - Principle of Transfinite Induction
- Lecture 47 - Order topology
- Lecture 48 - Ordinals
- Lecture 49 - Ordinal Topology (Continued...)
- Lecture 50 - The Long Line
- Lecture 51 - Motivation and definition
- Lecture 52 - The Exponential Correspondence
- Lecture 53 - An Application to Quotient Maps
- Lecture 54 - Groups of Homeomorphisms
- Lecture 55 - Definition and Examples of Manifolds
- Lecture 56 - Manifolds with Boundary
- Lecture 57 - Homogeneity
- Lecture 58 - Homogeneity (Continued...)
- Lecture 59 - Classification of 1-dim. manifolds
- Lecture 60 - Classification of 1-dim. Manifolds (Continued...)
- Lecture 61 - Surfaces
- Lecture 62 - Connected Sum