NPTEL Video Course - Mathematics - NOC:Point Set Topology

Subject Co-ordinator - Prof. Ronnie Sebastian

Co-ordinating Institute - IIT - Bombay

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

Lecture 1 - Definition and examples of topological spaces
Lecture 2 - Examples of topological spaces
Lecture 3 - Basis for topology
Lecture 4 - Subspace Topology
Lecture 5 - Product Topology
Lecture 6 - Product Topology (Continued...)
Lecture 7 - Continuous maps
Lecture 8 - Continuity of addition and multiplication maps
Lecture 9 - Continuous maps to a product
Lecture 10 - Projection from a point
Lecture 11 - Closed subsets
Lecture 12 - Closure
Lecture 13 - Joining continuous maps
Lecture 14 - Metric spaces
Lecture 15 - Connectedness
Lecture 16 - Connectedness (Continued...)
Lecture 17 - Connectedness (Continued...)
Lecture 18 - Connected components
Lecture 19 - Path connectedness
Lecture 20 - Path connectedness (Continued...)
Lecture 21 - Connectedness of GL(n,R)^+ (math symbol)
Lecture 22 - Connectedness of GL(n,C), SL(n,C), SL(n,R)
Lecture 23 - Compactness
Lecture 24 - Compactness (Continued...)
Lecture 25 - Compactness (Continued...)
Lecture 26 - Compactness (Continued...)
Lecture 27 - SO(n) is connected
Lecture 28 - Compact metric spaces
Lecture 29 - Lebesgue Number Lemma

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Lecture 30 - Locally compact spaces
Lecture 31 - One point compactification
Lecture 32 - One point compactification (Continued...)
Lecture 33 - Uniqueness of one point compatification
Lecture 34 - Part 1 : Quotient topology
Lecture 35 - Part 2 : Quotient topology on G/H
Lecture 36 - Part 3 : Grassmannian
Lecture 37 - Normal topological spaces
Lecture 38 - Urysohn's Lemma
Lecture 39 - Tietze Extension Theorem
Lecture 40 - Regular and Second Countable spaces
Lecture 41 - Product Topology on mathbb{R}^{mathbb{N}}
Lecture 42 - Urysohn's Metrization Theorem
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