

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

NPTEL Video Course - Humanities and Social Sciences - NOC:Calculus of One Real Variable

Subject Co-ordinator - Dr. Joydeep Dutta

Co-ordinating Institute - IIT - Kanpur

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

- Lecture 1 - Introduction to Numbers
- Lecture 2 - Countability and Uncountability
- Lecture 3 - Examples of Irrational numbers
- Lecture 4 - Functions
- Lecture 5 - Limits of Functions - I
- Lecture 6 - Limits of Functions - II
- Lecture 7 - Continuous Functions
- Lecture 8 - Intermediate Value Theorem
- Lecture 9 - Maximum Value Theorem
- Lecture 10 - Supremum and Infimum
- Lecture 11 - Derivative of a Function
- Lecture 12 - Rules of Differentiation
- Lecture 13 - Maxima and Minima
- Lecture 14 - Rolles Theorem and Lagrange Mean Value Theorem (MVT)
- Lecture 15 - Monotonic Functions and Inverse Functions
- Lecture 16 - Newton's Method for solving Equations
- Lecture 17 - Optimization Problems
- Lecture 18 - Integration-I
- Lecture 19 - Integration-II
- Lecture 20 - Integration-III
- Lecture 21 - Integration theory of Riemann - I
- Lecture 22 - Integration theory of Riemann - II
- Lecture 23 - Integration Rule
- Lecture 24 - Fundamental Theorem of Calculus (in Riemann style)
- Lecture 25 - The Kurzweil-Henstock Integral (K-H Integral)
- Lecture 26 - Calculating Indefinite Integrals
- Lecture 27 - Improper Integral - I
- Lecture 28 - Improper Integral - II
- Lecture 29 - Application of Definite Integral - I

Get Digi-MAT (Digital Media Access Terminal) For High-Speed Video Streaming of NPTEL and Educational Video Courses in LAN

www.digimat.in

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

- Lecture 30 - Application of definite Integral - II
- Lecture 31 - Application of definite Integral - III
- Lecture 32 - Application of definite Integral - III (Continued.....)
- Lecture 33 - Numerical Integration - I
- Lecture 34 - Numerical Integration - II
- Lecture 35 - Sequences
- Lecture 36 - Sequences (Continued...)
- Lecture 37 - Infinite Series
- Lecture 38 - infinite series (Continued...)
- Lecture 39 - Taylors Theorem, other issues and end of the course - I
- Lecture 40 - Taylors Theorem, other issues and end of the course - II