

# LESSON PLAN

Class - B.A/B.Sc IV Semester

Name of Astit. Prof - Ms. Anuradha (Mathematics)

Paper - Sequences & Series

Session - 2021-22

Month.	Topic
9 April to 30 April	Basics of Sequences, Series, Convergence and Divergence of Infinite Series
May	Boundedness of the set of real numbers, Supremum, Infimum, neighbourhoods, Interior points, Isolated points, Limit points, Open set, closed set, closure of a set and properties, Bolzano-Weierstrass theorem, Open Covers.
June	Compact sets and Heine - Borel Theorem, Sequences, Theorems on Limits of Sequence, Bounded and monotonic Sequences, Cauchy's Sequence, Cauchy General Principle of Convergence, Subsequences, D-Alembert's Ratio Test, Cauchy Integral Test
July	Raabe's Test, Logarithmic Test, Gauss Test, De Morgan & Bertrand's Test, Cauchy's condensation test, Alternating Series, Arbitrary Series, Infinite Products

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Astit. Prof. of Mathematics

# LESSON PLAN

Class - B.A/B.Sc 2nd Semester

Subject - Mathematics

Name of Astit. Prof. - Ms. Anuradha

Paper - Ordinary Differential Equations

Session - 2021-22

Month	Topic
9 April to 30 April	Basics of Differential Equations, Exact differential Equations, Integrating factors, Equations of first order but not of first degree
May	Orthogonal trajectories, Linear differential Equations with Constant Co-efficients. Homogeneous linear ordinary differential equations
June	Methods for solving Linear differential Equations of Second Order
July	Ordinary Simultaneous Differential Equations, Total Differential Equations

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# LESSON PLAN

CLASS - B.Com 2nd semester

Subject - Business Mathematics

Name of Astt. Prof - Ms. Anuradha

Session - 2021-22

Month	Topic
9 April to 30 April	Linear Inequalities Linear Programming: formulation of Equations, Graphical method, Iso-cost and Iso-profit Method
May	Linear Programming, Permutation and Combinations
June	Binomial theorem, Data - Introduction, classification and Tabulation, Diagrammatic representation of Data
July	Graphical representation of Data, Data Interpretation

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# LESSON PLAN

Class - B.A/B.Sc 6<sup>th</sup> Semester

Subject - Mathematics

Name of Astit. Prof. - Ms. Anuradha

Paper - Real & Complex Analysis

Session - 2021-22

Month	Topic
9 April to 30 April	Jacobians, Beta and Gamma functions, Double and Triple Integrals
May	Fourier Series, Extended Complex Plane, Stereographic projection of Complex numbers
June	Continuity and differentiability of Complex functions, Analytic functions, Cauchy-Riemann Equations, Harmonic functions, Elementary functions, Mobius transformations, critical mapping

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