

#### **4) Fourier Series and Functional Analysis (5 Credits) (Optional)**

Conditional, unconditional and absolute convergence of a series in a normed linear space; notion of an orthonormal basis for a Hilbert space Trigonometric series, Fourier series, Fourier sine and cosine series Piecewise continuous/smooth functions, absolutely continuous functions, functions of bounded variation (and their significance in the theory of Fourier series) Generalized Riemann-Lebesgue lemma Dirichlet and Fourier kernels Convergence of Fourier series Discussion (Without proofs) of some of the following topics: The Gibbs phenomenon, divergent Fourier series, term-by-term operations on Fourier series, various kinds of summability, Fejer theory, multivariable Fourier series.

Reference:

1. George Bachelman, Lawrence Narici and Edward Beckenstein, Fourier and Wavelet Analysis, Springer-Verlag, New York, 2000
2. Richard L. Wheeden and Antoni Zygmund, Measure and integral, Marcel Dekker Inc., New York, 1977.
3. Balmohan V. Limaye, Functional Analysis, New Age International (P) Ltd. New Delhi, 2004.

#### **5) Complex Analysis (5 Credits) (Optional)**

- (1) Analytic functions, Path integrals, Winding number, Cauchy integral formula and consequences, Gap theorem, Isolated singularities, Residue theorem, Liouville theorem.
- (2) Casorati- Weierstrass theorem, Bloch-Landau theorem, Picard's theorems, Mobius transformations, Schwartz lemma, External metrics, Riemann mapping theorem, Argument principle, Rouché's theorem.
- (3) Runge's theorem, Infinite products, Weierstrass  $p$ -function, Mittag-Leffler expansion.

**References:**

1. Murali Rap & H. Stetkaer, Complex Analysis, World Scientific, 1991.
2. L. V. Ahlfors, Complex Analysis, McGraw-Hill, Inc., 1996.
3. A. R. Shastri, Complex Analysis, 2010.
4. S. G. Krantz, Complex Analysis: The Geometric View Points, Second edition, Carus Math. Monographs, MAA.

#### **6) Commutative Algebra (5 Credits) (Optional)**

Prime ideals and maximal ideals, Zariski topology, Nil and Jacobson, radicals, Localization of rings and modules, Noetherian rings, Hilbert Basis theorem, modules, primary decomposition, integral dependence, Noether normalization lemma, Krull's principal ideal

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**Y Pai**



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## **Table of Contents Methematics Paper2014 Leaked**

1. Understanding the eBook Methematics Paper2014 Leaked
  - The Rise of Digital Reading Methematics Paper2014 Leaked
  - Advantages of eBooks Over Traditional Books
2. Identifying Methematics Paper2014 Leaked
  - Exploring Different Genres
  - Considering Fiction vs. Non-Fiction
  - Determining Your Reading Goals
3. Choosing the Right eBook Platform
  - Popular eBook Platforms
  - Features to Look for in an Methematics Paper2014 Leaked
  - User-Friendly Interface
4. Exploring eBook Recommendations from Methematics Paper2014 Leaked
  - Personalized Recommendations
  - Methematics Paper2014 Leaked User Reviews and Ratings
  - Methematics Paper2014 Leaked and Bestseller Lists
5. Accessing Methematics Paper2014 Leaked Free and Paid eBooks
  - Methematics Paper2014 Leaked Public Domain eBooks
  - Methematics Paper2014 Leaked eBook Subscription Services

- Mathematics Paper2014 Leaked Budget-Friendly Options
- 6. Navigating Mathematics Paper2014 Leaked eBook Formats
  - ePub, PDF, MOBI, and More
  - Mathematics Paper2014 Leaked Compatibility with Devices
  - Mathematics Paper2014 Leaked Enhanced eBook Features
- 7. Enhancing Your Reading Experience
  - Adjustable Fonts and Text Sizes of Mathematics Paper2014 Leaked
  - Highlighting and Note-Taking Mathematics Paper2014 Leaked
  - Interactive Elements Mathematics Paper2014 Leaked
- 8. Staying Engaged with Mathematics Paper2014 Leaked
  - Joining Online Reading Communities
  - Participating in Virtual Book Clubs
  - Following Authors and Publishers Mathematics Paper2014 Leaked
- 9. Balancing eBooks and Physical Books Mathematics Paper2014 Leaked
  - Benefits of a Digital Library
  - Creating a Diverse Reading Collection Mathematics Paper2014 Leaked
- 10. Overcoming Reading Challenges
  - Dealing with Digital Eye Strain
  - Minimizing Distractions
  - Managing Screen Time
- 11. Cultivating a Reading Routine Mathematics Paper2014 Leaked
  - Setting Reading Goals Mathematics Paper2014 Leaked
  - Carving Out Dedicated Reading Time
- 12. Sourcing Reliable Information of Mathematics Paper2014 Leaked
  - Fact-Checking eBook Content of Mathematics Paper2014 Leaked
  - Distinguishing Credible Sources
- 13. Promoting Lifelong Learning
  - Utilizing eBooks for Skill Development
  - Exploring Educational eBooks
- 14. Embracing eBook Trends

- Integration of Multimedia Elements
- Interactive and Gamified eBooks

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