

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 Baxman, Lawrence Narici and Edward Beakenstein, 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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Machine Learning, Optimization, and Data Science Giuseppe Nicosia, Varun Ojha, Emanuele La Malfa, Gabriele La Malfa, Panos Pardalos, Giuseppe Di Fatta, Giovanni Giuffrida, Renato Umeton, 2023-03-08 This two volume set LNCS 13810 and 13811 constitutes the refereed proceedings of the 8th International Conference on Machine Learning Optimization and Data Science LOD 2022 together with the papers of the Second Symposium on Artificial Intelligence and Neuroscience ACAIN 2022 The total of 84 full papers presented in this two volume post conference proceedings set was carefully reviewed and selected from 226 submissions These research articles were written by leading scientists in the fields of machine learning artificial intelligence reinforcement learning computational optimization neuroscience and data science presenting a substantial array of ideas technologies algorithms methods and applications

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