Name of the Assistant/Associate Professor: Mr. Satish, Dr. Anil Kumar, Dr. Minakshi Class: B.Com 1st Year

Subject: BUSINESS MATHEMATICS

| Date | Topic |
|-----------------------------|--|
| 01.01.2024 to | Introduction of Syllabus and Scheme of Examination, Matrices: Definition, |
| 06.01.2024 | Types, Algebra |
| 08.01.2024 to | Determinants: Definition, How to find determinant of matrices of different |
| 13.01.2024 | orders, Adjoint of Matrix |
| 15.01.2024 to 21.01.2024 | Elementary row and column operations, Inverse of a matrix, Test |
| 22.01.2024 to | |
| 27.01.2024 | Differentiation: Using First Principal, General Theorems, Product of two functions, Quotient of two functions |
| 29.01.2024 to 03.02.2024 | Chain Rule, Differentiation of Logarithmic, Exponential, Implicit and |
| | |
| 05.02.2024 to 10.02.2024 | Derivatives of Higher Order, Application of Derivatives, Test |
| 12.02.2024 to | Introduction of Derivatives, Test |
| 17.02.2024 | Introduction of Simple and Compound Interest, Related Problems, Assignment |
| 19.02.2024 to | Determination of Compound Interest 6 |
| 24.02.2024 | Determination of Compound Interest for various periods: Annually, Half-yearly, Quarterly, Continuous compounding of interest, Test |
| 26.02.2024 to | Annuities: Definition, Types, Formulas, Related Problems |
| 02.03.2024 04.03.2024 to | Types, Formulas, Related Problems |
| 09.03.2024 | Present value of an Annuity for different cases |
| 11.03.2024 to | |
| 16.03.2024 | Solution of Practical problems related to Annuities, Related Problems |
| 18.03.2024 to 23.03.2024 | Ratio: Definition, Related terms, Their Comparison, Types, Test |
| 25.03.2024 to | Proportion: Definition T |
| 30.03.2024 | Proportion: Definition, Types, Properties, Related Problems |
| 01.04.2024 to 06.04.2024 | Addendo Theorem and Related problems, Assignment |
| 08.04.2024 to | |
| 13.04.2024 | Percentage and Related problems |
| 15.04.2024 to | Profit and Loss, Related problems |
| 20.04.2024 | |
| 22.04.2024 to 30.04.2024 | Revision, Test |
| 20.04.2024 | |

Name of the Associate Professor Mr. Satish Kumar Class: B.Sc. 3rd Year Subject:Real & Complex Analysis

| Date | Topic |
|---------------|--|
| 01.01.2024 to | Jacobians, Beta and Gama functions and their applications. |
| 06.01.2024 | |
| 08.01.2024 to | Double and Triple integrals |
| 13.01.2024 | |
| 15.01.2024 to | Dirichlets integrals, change of order of integration in double integrals. |
| 21.01.2024 | |
| 22.01.2024 to | Fourier's series: Fourier expansion of piecewise monotonic functions. |
| 27.01.2024 | |
| 29.01.2024 to | Properties of Fourier Coefficients, Dirichlet's conditions. |
| 03.02.2024 | |
| 05.02.2024 to | Parseval's identity for Fourier series, Fourier series for even and odd functions. |
| 10.02.2024 | |
| 12.02.2024 to | Half range series, Change of Intervals. Test |
| 17.02.2024 | |
| 19.02.2024 to | Extended Complex Plane, Stereographic projection of complex numbers. |
| 24.02.2024 | |
| 26.02.2024 to | Continuity and differentiability of complex functions. |
| 02.03.2024 | |
| 04.03.2024 to | Analytic functions, Cauchy-Riemann equations. Harmonic functions. |
| 09.03.2024 | |
| 11.03.2024 to | Mappings by elementary functions: Translation, rotation. |
| 16.03.2024 | |
| 18.03.2024 to | Magnification and Inversion. Conformal Mappings. |
| 23.03.2024 | |
| 25.03.2024 to | Mobius transformations & its applications. Test |
| 30.03.2024 | |
| 01.04.2024 to | Fixed pints, Cross ratio, Inverse Points and critical mappings. |
| 06.04.2024 | D |
| 08.04.2024 to | Revision. |
| 13.04.2024 | D |
| 15.04.2024 to | Revision. |
| 20.04.2024 | D. · · |
| 22.04.2024 to | Revision. |
| 30.04.2024 | |



Name of the Associate Professor Mr. Satish Kumar Class: B.Sc. 1st Year

| Subject: Number Theory And Trignometry | | |
|--|--|--|
| Date | | |
| 01.01.2024 to | Divisibility, G.C.D. (Greatest Common Divisors), L.C.M. (Least Common | |
| 06.01.2024 | | |
| 08.01.2024 to | Primes, Fundamental Theorem of Arithmetic, Linear Congruences. | |
| 13.01.2024 | | |
| 15.01.2024 to | Fermat's theorem. Wilson's theorem and its converse. | |
| 21.01.2024 | | |
| 22.01.2024 to | Linear Diophantine equations in two variables. | |
| 27.01.2024 | data estados de la compansa de la co | |
| 29.01.2024 to | Complete Residue System and Reduced Residue System modulo m. | |
| 03.02.2024 | | |
| 05.02.2024 to | Euler function. Euler's Generalization of Fermat's theorem. | |
| 10.02.2024 | | |
| 12.02.2024 to | Chinese Remainder Theorem. Quadratic Residues. | |
| 17.02.2024 | D. C. D. C. C. Land | |
| 19.02.2024 to | Legendre Symbols, Lemma of Gauss: Gauss Reciprocity law. | |
| 24.02.2024 | C. I' is an and the sum of divisors | |
| 26.02.2024 to | Greatest integer function [x]. The number of divisors and the sum of divisors | |
| 02.03.2024 | of a natural number n. | |
| 04.03.2024 to | The functions d (n) and a(n). Moebius Function and Moebius Inversion | |
| 09.03.2024 | Formula. | |
| 11.03.2024 to | De-Moivre's theorem and its applications. | |
| 16.03.2024 | Disease development by the condition and by markelia | |
| 18.03.2024 to | Expansion of trigonometrical functions. Direct circular and hyperbolic | |
| 23.03.2024 | functions and their properties. | |
| 25.03.2024 to | Inverse circular and hyperbolic functions and their properties. | |
| 30.03.2024 | Congression | |
| 01.04.2024 to | Logarithm of a complex quantity. Geography's series. | |
| 06.04.2024 | am i | |
| 08.04.2024 to | Summation of Trigonometric series. | |
| 13.04.2024 | | |
| 15.04.2024 to | Revision. | |
| 20.04.2024 | | |
| 22.04.2024 to | Revision. | |
| 30.04.2024 | | |



Name of the Associate Professor Mr. Satish Kumar

Class: B.Sc. 2nd Year Subject: Sequence and

| Subject: Sequence | Subject: Sequence and Series | | |
|-----------------------------|--|--|--|
| Date | Topic | | |
| 01.01.2024 to | Boundedness of the set of real numbers, least upper bound, greatest lower | | |
| 06.01.2024 | bound of a set neigh bourhoods | | |
| 08.01.2024 to | Interior points isolated points, limit points, open sets, close sets, interior of a | | |
| 13.01.2024 | set. | | |
| 15.01.2024 to | Closure of a set in real numbers and their properties. | | |
| 21.01.2024 | Compact agts and Haine Rorel | | |
| 22.01.2024 to | Bolzano-weierstrass theorem. Open cover. Compact sets and Heine Borel | | |
| 27.01.2024 | Theorem. | | |
| 29.01.2024 to | Sequence: real sequence and their convergence, theorems of limits of | | |
| 03.02.2024 | sequence | | |
| 05.02.2024 to | Bounded and monotonic sequence cauchy's sequence. | | |
| 10.02.2024 | C. I. S. L. C. S. | | |
| 12.02.2024 to | Cauchy general principle of convergence, subsequences, limits. | | |
| 17.02.2024 | Infinite Series: covergenc and divergence of infinite series, comparison tests | | |
| 19.02.2024 to | Infinite Series: covergenc and divergence of infinite series, comparison tests | | |
| 24.02.2024 | of positive terms infinite series. Cauchy's general principle of convergence of series, coveragence and | | |
| 26.02.2024 to 02.03.2024 | divergence of geometrical series. hyper harmonic series or p series. | | |
| 04.03.2024 04.03.2024 to | Infinite series: D' Alembert Ratio test, logarithm test, De Morgan and | | |
| 09.03.2024 | Bertrand's Test. | | |
| 11.03.2024 to | Cauchy's nth root test, gauss test, Cauchy integral test, Cauchy | | |
| 16.03.2024 | condensation test. | | |
| 18.03.2024 to | Alternating series: Leibnitz's test absolute and conditional coverageence | | |
| 23.03.2024 | arbitrary series, Able's Test, Dirichlet's Test, Insert and removal of | | |
| | parenthesis. | | |
| 25.03.2024 to | Rearrangement of terms in a series, Dirichlet's theorem, Riemann's | | |
| 30.03.2024 | Rearrangement theorem .Pringsheim's theorem. | | |
| 01.04.2024 to | Multiplication of series. | | |
| 06.04.2024 | | | |
| 08.04.2024 to | Covergenc and absolute covergenc of infinite products. | | |
| 13.04.2024 | | | |
| 15.04.2024 to | Revision. | | |
| 20.04.2024 | | | |
| 22.04.2024 to | Revision. | | |
| 30.04.2024 | | | |

