

B.Sc. IInd Sem. 2024 Lesson Plan

Paper : Number Theory and Trigonometry

January :-

- * Divisibility
- * G.C.D, L.C.M.
- * Fundamental theorem of arithmetic
- * Fermat's theorem
- * Wilson's theorem
- * Linear Diophantine equations

February

- * Residue system
- * Euler's function and its generalization
- * Gauss law
- * Mobius Inversion formula

March

- * De Moivre's theorem and its applications

April

- * Inverse circular and hyperbolic properties
- * Gregory's series
- * Trigonometry series

May

- * Text and Revision

Ravi Shankar
Ravi Parkash
Assistant Prof. of Maths

B.Sc. IVth Sem. 2024 (Lesson Plan)

Paper : Special Functions and Integral Transforms

January

- * Power series
- * Beta and Gamma function
- * Orthogonality

February

- * Legendre and Hermite equations
- * Orthogonality of equations
- * Laplace integral

March

- * Extension theorem for Laplace transforms
- * Solution of ordinary differential equations

April

- * Fourier transformations
- * Parseval's Identity

May

- * Test and Revision

Ravi Shukla
Ravi Parkash

B.Sc. VIth Sem. 2024 Lesson Plan

Paper : Real and Complex Analysis

January : *

- Jacobian
- Beta and Gamma functions
- Dirichlet's integrals

February

- * Fourier's series
- * Dirichlet's condition
- * Half range series

March

- * Extended complex plane
- * Stereographic projection
- * C-R Equations
- * Harmonic functions

April

- * Mapping by elementary functions
- * Mobius transformations
- * Critical mappings

May

- * Test and revision

Ravi Bhola
Ravi Paskash