

M.Sc. (PHYSICS) Programme Structure
Programme Code: MSCPHY-20
First Semester

COURSE – 1 Mathematical Physics
Paper code: MPHY501

Credits –3
Total Marks: 50 (Assignment 10 + Theory Exam 40)

BLOCK – I: SPECIAL FUNCTIONS

- UNIT 1 : Legendre's Polynomials
- UNIT 2 : Bessel Functions
- UNIT 3 : Hermit Polynomials
- UNIT 4 : Laplace Equation and Wave Equation

BLOCK – II: INTEGRAL TRANSFORMS

- UNIT 5 : Fourier Transforms and Application
- UNIT 6 : Laplace Transforms and Applications

BLOCK – III: TENSOR ANALYSIS

- UNIT 7 : Tensor Algebra
- UNIT 8 : Metric Tensor & Christoffel Symbols