

MTH 303 VECTOR AND TENSOR ANALYSIS: (3 Units) (L30: P0: T 15)

Pre-requisite -MTH 201, 204

Vector algebra. Vector, dot and cross Products. Equating of curves and surfaces. Vector differentiation and applications. Gradient, divergence and curl. Vector integrate, line surface and volume integrals Greens Stoke's and divergence theorems. Tensor products of vector spaces. Tensor algebra. Symmetry. Cartesian tensors