

M.Sc (Semester4) ---- 1

ELECTIVE III - Batch 2018 and below

References :

ELECTIVE IV - Batch 2018 and below

References :

ELECTIVE V - Batch 2018 and above

References :

ELECTIVE VI - Batch 2018 and above

References :

ELECTIVE VII - Batch 2018 and above

References :

MA6651 SYLLABUS FOR VIVA-VOCE

Basic Definitions, Examples and Theorems associated with the following topics

Linear Algebra:

Bases and Dimension, Rank-Nullity Theorem, Matrix representation of linear transformations, Diagonalizability, Gram-Schmidt Orthogonalization.

Real Analysis:

Continuous functions, Completeness, Connectedness, Uniform convergence.

Ordinary Differential Equations:

Exact solutions of first order ODE, The method of successive approximations, Existence and Uniqueness of solutions of initial value problem, Wronskian, Method of variation of parameters.

Algebra I:

Group Actions, Sylows Theorems, Prime and Maximal Ideals, Principal Ideal Domain.

Complex Analysis:

Analytic functions, Radius of convergence of power series, Cauchy integral formula, Laurents theorem.

References :

MA6650 PROJECT - Batch 2018 and below

There is an option to do project work in place of one elective.

To be eligible to register for project work , student should have CGPA at least 7.0 by the end of semester III.

References :

For Project work:

1. Student has to choose a guide.
2. Project dissertation and project viva carry 50 marks each.
3. Project dissertation to be evaluated by an examiner other than guide.
4. Project viva is to be evaluated by a committee consisting of the guide and atleast one more examiner.
5. A duly filled-in form and three copies of the disseration has to be submitted [by the Student] to the Mathematics office on or before the last date prescribed by the class committe.