

PRAJYOTI NIKETAN COLLEGE, PUDUKAD

MATHEMATICS

BRIDGE COURSE (SYLLABUS)

Total hours : 10

Duration : 2 weeks

Objective :

To enable the students to acquire knowledge on basic mathematics

Module 1

- Real, complex, vector valued functions
- Limits, derivatives – rules of differentiation, Integration – rules of integration
- Sequence – limits, series
- Basics of Laplace Transforms

Module 2

- Matrices – rank and determinant
- Basics of vector calculus
- Complex numbers

References :

1. Calculus I (2/e) : Jerrold Marsden & Alan Weinstein
2. Advanced Engineering Mathematics(6/e) : Dennis G Zill Jones & Bartlett Learning
3. Advanced Engineering Mathematics(7/e) : Peter V O'Neil