

# *Mathematics*

## **1. Differential equations:-**

Differential equation of the first order and second order and their coefficients , constant , Applications.

## **2. Fourier series:-**

Fourier series for odd and even functions

## **3. Matrices:-**

Definition and property of Matrices , Eigen value and Eigen vector , set of Linear equation

## **4. Laplace transforms.**

## **5. The inverse of Laplace transforms.**

## **6. Compact sets and the variables:**

Introduction , compact sets with one-dimension mathematical expression , examples for using compact sets , compact sets with multi-dimension ,input and out put compact sets and partial Do rings.