**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 output compact sets and partial Do rings.