BTech Preparatory Unit (BPU) in Introductory Engineering Mathematics

Syllabus

1. Fundamental topics – algebra, angles, trigonometric functions and identities, quadratic equations, inequality.


4. Partial Fractions - quadratic denominators with distinct roots, quadratic denominators with repeated roots, cubic denominators.

5. Complex Numbers - definition, addition, subtract, multiplication, division, Argand diagram, polar form, exponential form.

6. Limits and continuity - Limits of functions and sequences, types of limits, the sandwich theorem, evaluation of limits, continuity of functions, property of continuous functions.

