

MTH101 Elementary Mathematics I (3+0+0 3 Units)

(Algebra and Trigonometry)

• Elementary set theory; Subsets; Union; Intersection; Complements, Venn diagrams. • Real numbers: integers, rational and irrational numbers, mathematical induction, real sequences and series, theory of quadratic equations, binomial theorem. • Complex numbers: algebra of complex numbers; the Argand Diagram. De Moivre's theorem, n th roots of unity. • Circular measure, trigonometric functions of angles of any magnitude, addition and factor formulae