MTH 300 ABSTRACT ALGEBRA I: (3 Units) (L30: P0: T 15)

Pre-requisite -MTH 101, 203

Group: definition, examples including permutation grounds. Subgroups, cosets. Legranges theorem and applications. Cyclic, groups. Rings: definition examples including Z, Zn, rings of polynomials and matrices. Integral domains, fields. Polynomial rings, factorization. Euclidean algorithm for polynomials H.C.F. and L.C.M. of polynomials.