MTH 306. ABSTRACT ALGEBRA II: (3 Units) (L30: P0: T 15)

Pre-requisite - MTH 203, 206

Normal subgroups and quotient groups. Monomorphic isomorphism theorems. Cayley's theorems. Direct products. Groups of small order. Group acting on sets. Sylow theorems. Ideal and quotient rings. P.I.D. 8, U.F.D 'S euclides rings. Irreducibility; Field extensions, degree of an extension, minmum polynomial. Algebraic and transcendental extensions. Straight edged and compass constructions.