

MA-608 THEORY OF GROUP GRAPHS (M.Phil/Ph.D) (Cr-3)

Generators and relations, Factor groups, Direct Products, Automorphisms, Finite Presentations of Groups, Tietze transformations, Coset enumerations, Graphs, Cayley diagram, Schrier's cost diagrams, Coset diagrams for the modular group, Action of the modular group on finite sets, Symmetry in the diagrams, Composition of coset diagrams, Action of the modular group on real projective line, Action of the modular group on finite projective lines over finite fields.

RECOMMENDED BOOKS:

1. Coxeter, H.S.M. and Moser, W.O., Generators and relations for discrete Groups, Springer-Verlag.1965.
2. Rose, S., A course in group theory, Cambridge University Press. 1980.
3. Magnus, W., Karrass, A and Solitar, D., Combinatorial group theory, Dover Publications, 1976.