MATH 551 Abstract Algebra

DESCRIPTION

Basic definitions of rings and modules, Homomorphisms, Sums and products, Exactness, Hom and tensor, Adjoint isomorphism, Free, projective and injective modules. Chain conditions, Primary decomposition, Noetherian rings and modules, Artinian rings, structure theorem. PREREQUISITE: MATH 345.

TEXTBOOK

ALGEBRA, by Serge LANG, Revised Third Edition

HOMEWORK

Set 1	Set 2
II-11, II-14, II-15 III-9, III-10 X-7, X-9 XVI-4, XVI-10 XVII-3 XX-25, XX-26	II-13, II-15 III-3, III-14, III-15 IV-1, IV-5, IV-8 X-10 XVI-9 XVII-3, XVII-6 XX-22, XX-23, XX-24