M 405 – Universal Algebra - II -> Sx-S 439 2005-2006 AB

(Prerequisite Universal Algebra - I)

UNIT I : Boolean algebras - Boolean rings - Filters and ideals - Stone identity.

UNIT II : Boolean powers - Ultra products and congruences -distributive varieties - Primal algebras- Boolean products.

UNIT III : Discriminator varieties - Quasi primal varieties Functionally complete algebras - Skew-free algebras Semisimple varieties - Directly representable varieties.

UNIT IV : Connections with model theory - First order language first order structures and satisfaction - Reduced products and ultra products.

Content and Extent as in the Book :

A course in Universal Algebra - Stanley Burris and H.P. Sankappanavar, Springer - Verlag, Berlin.