SUBJECT NO-MA60020, SUBJECT NAME- INFORMATION AND CODING THEORY

LTP- 3-1-0,CRD- 4

SYLLABUS :-

Prerequisite: Discrete MathematicsGeneral concepts of coding theory, noise and error correcting codes, linear codes including the hamming, golary, Reed - Muller codes. Finite and number fields, algebraic function fields, algebraic curves and their applications, cyclic codes (including the BCH, Reed-Solomon, Justesen, Goppa, and quadratic residue codes). Decoding techniques for some these codes. Applications to information processing.