SUBJECT NO-EC60128, SUBJECT NAME- LINEAR ALGEBRA AND ERROR CONTROL TECHNIQUES

LTP- 3-0-0,CRD- 3

SYLLABUS :-

Pre-requisites: NoneGroups, Fields, Galois fields, basic properties, computational polynomials. Vector spaces, matrices, combinational sets, Projective geometry sets, Euclidian geometry sets. ARQ techniques and performance. Block cyclic code theory, weight distribution, shortened cyclic codes, Golay, RS codes, Error trapping and majority logic decoding of cyclic codes. Finite geometry coding. Sequential decoding convolution codes. Burst error correcting block and convolution codes. Product codes, Concatenated codes. Coding and modulation, Comparison of different coding schemes.