

MTH 305 COMPLEX ANALYSIS II (3Units) (L30: P 0: T 15)

Pre-requisite - MTH 203, 207

Co-requisite - MTH 307

Laurent expansions. Isolated singularities and residues. Residue theorem Calculus of residue, and application to evaluation of integrals and to summation of series. Maximum Modulus principle. Argument principle. Rouché's theorem. The fundamental theorem of algebra. Principle of analytic continuation. Multiple valued functions and Riemann surfaces.