

MTH 405 GENERAL TOPOLOGY: (3 Units) (L30: P0: T 15)

Pre-requisite - MTH 301.

Topological spaces, definition, open and closed sets neighbourhoods. Coarser, and finer topologies. Basis and sub- bases. Separatic axioms, compactness, local compactness, connectedness. Construction of new topological spaces from given ones; Sub-spaces, quotient spaces. Continuous functions, homeomorphons, topological invariants, spaces of continuous functions: Pointivise and uniform convergence.