MT507: TOPOLOGY

Syllabus: Topological spaces; Subspaces; Open sets; Closed Sets; Neighbourhood system; Bases and sub-bases; Continuous mapping and Homeomorphism; Seperation axioms $(T_0, T_1, T_2, T_3, T_4)$; Compact and locally compact spaces; Tychnoff's one point compactification; Connected and locally connected spaces; Product and Quotient spaces; Nets, Filters

UNIT SCHEDULE

Unit 8   Topological spaces
Unit 9   Bases and Sub-bases and Continuity
Unit 10   Seperation axioms $(T_0, T_1, T_2, T_3, T_4)$
Unit 11   Compact and locally compact spaces
Unit 12   One point compactification
Unit 13   Connected and locally connected spaces
Unit 14   Product and Quotient spaces
Unit 15   Nets, Filters