SARDAR PATEL UNIVERSITY Programme & Subject: M.Sc (Mathematics) Semester: IV Syllabus with Effect from: November-2013

Paper Code: PS04EMTH08	Total Credit: A
Title Of Paper: Topological Groups	

Unit	Description in detail	Weighting (%)
Ι	Basic properties of topological groups- left and right translations- neighbourhood system of identity.	25%
II	Separation axioms-subgroups and quotient groups -products and inverse limits of groups.	25%
III	Structure theorem for locally compact groups.	25%
IV	Construction of Haar measure and its properties. The Banach algebra $L^1(G)$.	25%

Basic Text & Reference Books:-

- ➤ T. Husain Introduction to topological groups, W. B. Saunders Co., Japan, 1966.
- E. Hebwitt and K.A. Ross Abstract Harmonic Analysis I, Springer Verlag, Berlin, 1993.

