

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

Paper Code: PS04EMTH11	Total Credit: 4
Title Of Paper: Spectral Theory of Dynamical System	

Unit	Description in detail	Weighting (%)
I	Hahn-Hellinger Theorem.	25%
II	Spectral theorem for unitary operators, symmetry and denseness of spectrum, multiplicity and rank.	25%
III	Skew product, a theorem of Helson and Perry, Probability measures on circle.	25%
IV	Baire category theorems of ergodic theory.	25%

Basic Text & Reference Books:-

- M.G.Nadkarni, Spectral Theory for Dynamical Systems, Hindustan Book Agency, 1998.

