## SARDAR PATEL UNIVERSITY

## Programme & Subject: M.Sc (Physical Chemistry) Semester: IV

Syllabus with Effect from: June – 2013

Paper Code: PS04ECHE04	Total Credit: 4
Title Of Paper: Selected Topics in Polymers	Total Credit: 4

Unit	Description in detail	Weightage (%)
I	Fundamental of paints Characteristic, properties of Pigments Formulation of	25%
	Paints and Varnishes	2370
II	Synthetic Adhesives: Traditional, Pressure Sensitive and Hot melt Fibers:	25%
	Block and Graft copolymers: Ion Exchange polymers:	23%
III	Water soluble Polymers: Preparation, Properties iand Applications of modified	
	cellulose and starch, Polyacrylamide, Polyvinyl pyrrolidone, Polyethylene	25%
	oxide, Polyethylene imine	
IV	Engineering Plastics. Polyacetals, Poly butylene-terphthalate, Polyphenylene	
	oxide, Polyphenylene sulfide, Polyether ketone, Polyether ether ketone	25%
	(PEEK)	

## **Basic Text & Reference Books:-**

- Paint manufacture By J. R. Kapuria
- Water Soluble Resins By .Davidson and M-Sittings, Reinhold Book Corpn.
- ➤ High Temperature Resistance Polymers By -A.H.Frazer,Intersci. Publn.
- Flame Retardent Polymers By M.Lewin, S.N.Atlas and E.M.Pearce, Plenum press
- > Specialty polymers By-R. W.Dyson
- > Chemical Technology of Fibrous MaterialsBy F.Sadov, MN.Korchagin and A.Matertsky
- Macromolecules, Vol. II By H.GElias, Plennum Press, New York
- ➤ Ion-Exchangers By KJDorfher, Walter de Grayter Publ.
- ➤ Chemical Processing of fibres and fabricsBy-M.Lewis and S.B.Sello, Marcel Dekker Inc.
- > Specialty polymers By-R. W.Dyson
- ➤ Hand-book of Adhesives and SealantsBy Edward M. Petrite M.C.Graw-Hill Pub

