

SARDAR PATEL UNIVERSITY
Programme & Subject: M.Sc (Polymer Science & Technology)
Semester: III
Syllabus with Effect from: June-2015

Paper Code: PS03EPST06	Total Credit: 4
Title Of Paper: Selected Topics in Polymer Science	

Unit	Description in detail	Weightage (%)
I	Polymers in Medicine: Introduction, Polymers and Polymer Chemistry Pertinent to Medical Application, Medical Applications, Dental Application, Orthopedic Applications, Ophthalmology, Ear, Brest Implant, Facial Implants, Gynecology	25%
II	Specialty Coatings and Adhesives: New Generation Hybrid Coating, Antifouling Coating, Coating based on sustainable Resource-Development of Anticorrosive coating Based on Seed Oils, Specialty Adhesive- Synthetic & Natural Adhesive	25%
III	Inorganic Polymer: Introduction, Polyphosphazenes, Polysiloxanes and Related Polymer, Polysilane and Related Polymer, Micellaneous Inorganic Polymer	25%
IV	Product Design: Introduction, Geometric Shape, Plate, Beam, Rib, Column, Torsion, Sandwich, Gear, Bearing, Grommet, Gasket, Shape – Cylinder, Sphere, Tank, Pipe, spring, Building, Transportation, Medical, Metal, Design limitation and Constraint	25%

Basic Text & Reference Books:-

- Specialty Polymers materials & Application, Faiz Mohammad
- Inorganic Polymer, James E. Mark, Prentice Hall Advanced References Series
- Plastics Engineered Product Design, Dominick V Rosato, Elsevier

