

(Textile Engineering Department)

Undergraduate

Course Title: Poly Chemistry Lab

Prerequisite: Polymer Chemistry

Number of Credits: 1

Lecturer: Mrs. Moghadasian

Course Topics:

- Introduction to the safety items, laboratory regulations, methods of writing report and study of methods of recognizing obvious polymers
- Recognizing unknown polymers
- polymerization of acrylonitrile in solution method
- Polymerization of acrylonitrile in suspension method
- Calculating speed of polymerization of methyl meta acrylic in Balk method
- Changing Polyvinyl acetate into Polyvinyl alcohol
- Copolymerization of acrylonitrile - vinylacetate in solution method
- Copolymerization of acrylonitrile - vinylacetate in suspension method in Oxygen
- Infra-surface polymerization of Terephtaloyl di chloride and Ethylene diamin
- Determining molecular weight of polymers using viscometer method of capillary pipe
- Measuring viscosity of dense polymeric solution using rotary viscometer
- Polymerization of vinyl acetate in benzene
- Calculating ending groups in nylon 6
- Preparing Glyptal resin

Reading Resources:

- Polymer Technology
- Modern Methods of Polymers Synthesis
- Soft Heat Plastics
- Principles of Polymerization
- Textile Chemical and Preparations Complete