

UNIT III: Glass - Types and manufacture Ceramic Industries: basic raw materials, whitewaxes, heavy clay products, refractories, enamels and enameled metals. Natural Products Processing: Production of pulp, paper and rayon, Manufacture of sugar, starch and starch derivatives. Coal & Coal Chemicals: Types of Coal, Different uses, distillation of coal, treatment of products, low and high temperature carbonization of coal, coal tar distillation, Gasification of coal and chemicals from coal.


UNIT V: Plastics and Polymers: Production of thermoplastic and thermosetting resins such as polyethylene (HDPE, LDPE), polypropylene, phenolic resins and epoxy resins. Polymers and their applications in engineering practice. (PVC, PTFE, Polystyrene) Fibre Forming and Electrometric Polymers: Synthetic fibres: polyamides, polyesters and acrylics from monomers. Processes for the production of natural and synthetic rubbers.

References/Text Books:
3. “Encyclopedia of Chemical Technology” by R.E.Kirk & D.F.Othmer (Editors), Inter-science

Lecture Plan: Unit-I & -II syllabus for MID-I, Unit-III & -IV syllabus for MID-II and Unit-V & -VI syllabus for MID-III examinations.