

## **PCE3I102 CHEMICAL TECHNOLOGY**

### **Module I:**

Heavy Chemicals: Caustic Soda & Chlorine, HCL, Soda Ash, Sulphuric acid.

### **Module II:**

Extraction Refining of Oil, hydrogenation of Oil.

Soap & synthetic detergents.

Pulp & paper Industry.

Technology of Pigment & dyes, Natural dyes.

### **Module III:**

Manufacture of Sugar, Starch & its derivatives, Industrial & absolute alcohol.

### **Module IV:**

Polymers: Polyethylene, Polypropylene, PVC, Phenol formaldehyde, Urea formaldehyde, Polystyrene, Poly vinylacetate, Polylactic acid, and Nylons.

### **Text Books:**

1. *Dryden's Outlines of Chemical Technology for the 21st Century, 3rd ed. by CEDryden, Edited & revised by M Gopal Rao and MSittig.*
2. *Shreve's Chemical Process Industries, 5th ed. by G T Austin, McGraw-Hill.*