

## **CY-316 CHEMICAL INDUSTRIES**

**Types of Chemical Industries:** Industries producing inorganic and organic industrial chemicals, ceramic products, Petrochemicals, agrochemicals, polymers, rubber, oleo chemicals, explosives, fragrances, food and flavors. Characteristics and economic aspects.

**Manufacturing processes:** Manufacturing of Phosphoric acids, glass, Ceramics. Sugar, Nitrogenous and Phosphatic fertilizers, textile and food dyes.

**Pharmaceutical industry:** Quality control, sourcing of raw materials for drugs manufacturing. Active Pharmaceutical Ingredients, Synthetic and Natural APIs and their types.

**Water Conditioning and Purification for Industrial Applications:** Pre-treatment Processes, Chemical Treatment Methods, Membrane Technologies, Boiler and Cooling Water Treatment.