Chem. – 203 Applied chemistry (Core)

Objectives:

- 1) To provide basic knowledge related to organic and in organic chemistry including petrochemicals.
- 2) To acquaint students with the application of basic knowledge of chemicals ingredient and various organic products.

Unit – 1

- Introduction to organic chemistry sources of organic chemical and importance of organic chemicals.

Fractional instillation of petroleum.

 Classification of organic compounder, Monelature – IUPAC system, Functional groups and their structural formula, Homologous series and isomerism.

Unit -2

- Aliphatic series of carbon, general properties of following.

All cane, Alkane, Alkyne

- Compounds with different functional groups, general properties of following with use.

Alcohol, Ether.

Phenol, Aldehydes

Ketones, Benzenes.

Unit – 3

- Water
- Types of water and its hardness.
- Types of hardness, purification of water.
- Soap and detergents.

Definition, Preparation, properties, cleaning action, detergents – definition, industrial preparation their properties, Advantages and disadvantages of using soap and detergents.

Unit – 4

A. Brightening agent, optical brightness.

General information of perfumes and flavours.

B. Common Drugs.

Elementary Knowledge of common drugs, general information analysis, Disinfectants.

Practicals:

- Qualitative analysis of organic and inorganic compound.
- Preparation of soap, detergent, shampoo, balm, Vaseline, cold cream.

Reference

- A text book of Applied chemistry by Thankammo Jacob.
- Textbook of 11th and 12th science Gujarat Board.