F.Y.B.A (Home Science) Semester-II Introduction to Chemistry (SSE-115)

Objectives:-

1. To aware he students about chemistry and chemical reaction.

Unit-1

- 1. Explanation of: Elements, Mixture, Compound.
- Structure of atom.
- Definition & Examples: Atom, Molecule, Atomic Weight, Molecular Weight, Equivalent Weight, Valiancy Symbol.
- 2. Chemical Reaction.
- Factors affecting on chemical reaction.
- Acid & Base: Definition, Properties.
- Useful Acids & Bases.
- 3. P^H Scale, Measurement and importance of P^H.

Unit-2

- 1. Methods of laboratory preparation, properties and use of the following.
- (1) H_2 (2) O_2 (3) CO_2 (4) SO_2 (5) Cl_2
- 2. Water Method of water purification.
- 3. Hard water disadvantage, Types and removal of water hardness.

Unit-3

- 1. Metals physical Properties and uses of the following.
 - (1) CU (2) Fe (3) Al.
- 2. Fuels Types of Fuels.
- Proper Combustion of Gases.
- Use of L.P.G.
- Use of C.N.G.

Unit-4

- 1. Insecticides Classification, care in use of Insecticides.
- 2. Drugs Antibiotics, Analgesic.

Reference:-

- 1. Chemistry (Gujarati).
 - University Granth Nirman Board.
- 2. Chemistry.
 - Azaraben Kazi.