

GUJARAT TECHNOLOGICAL UNIVERSITY

Diploma in Home Science

Semester: 3

Subject Code

Subject Name GENERAL SCIENCE

Sr. No.	Course content
1.	General BIOLOGY : 1.1 Science of Biology 1.2 Characteristics of living and non-living 1.3 Various parts of plants and their modification such as. 1.3..1 ROOT Storage roots like beet, carrot like beet, carrot, radish, sweet. Potato, Climbing Roots of pathos, Aerial, Absorbing roots of orchid, Roots modules and parasitic root of cuscus. 1.3.2 STEM Storage stem like corm potato and ginger potato synch etc. Stem of euphorbia stem tendril of pass flora throe of lemon, bulbils of discoid. 1.3.3 LEAF Tendrins of foliose lab, stipules of acacia and smilax. Peptide of austral acclaim, euphoria metalloïd bract. 1.3.4 FLOWER Metalloïd clays of balsam canola of bean stamens of hibiscus and co-gynoecium's of abbot
2.	Plant PHYSIOLOGY : 2.1 Absorption of water and salts 2.2 Transpiration 2.3 Photosynthesis respiration
3.	ZOOLOGY : 3.1 Life history of ameba malaria parasites housefly, insect as rectoris Disease. 3.2 Carbohydrates classification, their function. 3.3 Proteins Classification and function 3.4 Hormones and their function, relation and reside.
4.	PHYSICS : 4.1 Lactometer 4.2 Microscope 4.3 Thermometers 4.4 Heat and Solar Energy 4.5 Pressure Cooker 4.6 Refrigeration 4.7 Ventilation 4.8 Importance of chimneys in house 4.9 Boiler 4.10 Eye vision and Spectacles

LABORATORY EXPERIENCES:

Use of Microscope – Experiments of transparent

- 1) Introduction of microscope & Study of Body cell
- 2) Study of Stems
- 3) Study of Roots
- 4) Study of Flowers
- 5) Study of Pressure Cooker
- 6) Study of Solar Cooker
- 7) Solar Water Heater
- 8) Study of Bacteria, Yeast, Mould & Fungus

TERM WORK :

Preparation of a Journal of practical performed in the laboratory

Reference Books :

Microbiology

Prof. V.M.Bilodia

Mehta College – Rajkot