

Biotechnology Curriculum (S.1-S.3) to be incorporated in the curriculum of Integrated Science S1 to S2, Physics, Chemistry & Biology in S3

A. Living things & their life

- Characteristics of life
- Classification of organisms
- Chemicals of life
- Cell and organelles
- Cell division
- Gene and heredity
- DNA, RNA and proteins

B. Health

- Food and nutrition
- Diseases and public health
- Microbiology
- Basic pharmacology
- Basic toxicology
- Chinese herbal medicine
- Gene therapy

C. Environment

- Sewage treatment
- Composting
- Bioremediation

Biotechnology Techniques

1. Living Things & their Life and Environment: - Western Blotting
2. Living Things & their Life and Health: - Fluorescent Microscopy
3. Health & Environment: - Cell Culture

Biotechnology in Society & Bioethics

1. Recent advances in Biotechnology
2. Regulation on genetic manipulation
3. Cloning