

# Science [Biology] Syllabus (Higher Paper)

## **Subject Core:- Life processes and Cell Activity**

Cell Division

Transport

## **Human Organisms**

Nutrition

Circulation

Breathing and Respiration

Nervous Co-ordination

Hormonal Control

Maintaining the Internal Environment

Diseases and Fighting Diseases

Drugs

## **Green Plants and Organisms**

Nutrition

Water Relations and Transport

Control of Growth

## **Variation and Inheritance**

DNA

Genetically Inherited Diseases

Mutations

## **Biotechnology**

Selective Breeding

Genetic Engineering

## **Living Organisms in their Environment**

Ecosystem

Adaptation and Competition

Humans and the Environment

## **Applied Microbiology**

Using microbes to make Food and Drinks

Growing Microbes in Fermentors

The syllabus is designed to give full coverage of KS4 Biology. It aims to give candidates an opportunity to acquire scientific knowledge and develop an understanding of Biology including its powers and limitations.