

Biology

Option Subject: Biology

Kindly indicate route offered:

Applied: ____

Academic: ☒ ____

Vocational: ____

General introduction to the subject:

Biology is the study of life. Emphasis is on cell structure and function, basic biological chemistry, metabolism and energy transformation, structure and function of organ systems in complex organisms, genetics, classification and organisms and their relationship with the environment. The three-year course will also include practical sessions, fieldwork exercises and visits to sites of biological significance.

List topics studied:

a. **The living World** including characteristics of life, different forms of life and grouping living things.

b. **Keeping alive** including chemicals of life, getting energy from food, conditions supporting life, functioning as a whole, the blueprint of life and increasing in numbers.

c. **Living together** including feeding relationships, soil as an ecosystem and management of resources.

Class activities involved:

Including classwork, practical work, investigations and inquiry-based activities. Students will go on fieldwork, and site visits.

Homework assigned:

Including reports on practical work, investigations and fieldwork; projects that might include a report to a site visit, questionnaires, presentation and other work related to Biology.

Assessment given:

Assessment is formative and summative. Including work related to homework, practical work, investigations and other practical related work. At the end of the year, final summative assessment includes 15% practical work and 85% final exam.

List skills acquired studying the subject:

a. *observational skills – attention to detail*

b. *interpretation skills*

c. *practical scientific skills*

d. *problem solving skills*

e. *communication skills including writing reports skills*

f. *mathematical skills*

g. *Information technology skills including the use of data loggers*

List skills required to study the subject:

a. *mathematical skills*

b. *basic communication skills*

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