

Botany: Crosscutting issues relevant to Professional Ethics

Sl.No.	Subject / Department	Name of the Programme	Semester	Course Code
1	Botany	B.Sc General	1st	CC-1A
2	Botany	B.Sc General	2nd	CC-1B
3	Botany	B.Sc General	3rd	CC1C
4	Botany	B.Sc General	3rd	SEC-1
5	Botany	B.Sc General	4th	CC-1D
6	Botany	B.Sc General	4th	SEC-2
7	Botany	B.Sc General	5th	DSE-1A
8	Botany	B.Sc General	5th	SEC-3
9	Botany	B.Sc General	6th	DSE-1B
10	Botany	B.Sc General	6th	SEC-4

s, Gender, Human Values, Environment

Course Title	Number of Credit
Biodiversity (Microbes, Algae, Fungi and Archegoniate)	6 (Th:4; Pr:2)
Plant Ecology and Taxonomy	6 (Th:4; Pr:2)
Plant Anatomy and Embryology	6 (Th:4; Pr:2)
Biofertilizers	2
Plant Physiology and Metabolism	6 (Th:4; Pr:2)
Floriculture	6
Economic Botany and Biotechnology	6 (Th:4; Pr:2)
Nursery and Gardening	6
Cell Biology, Genetics and Molecular Biology	6 (Th:4; Pr:2)
Mushroom Culture Technology	6

and Sustainability into the Curriculum:

Course Outcome
This topic helps student about the overall plant diversity of this planet. Starting from unicellular and cellular or acellular virus, bacteria, unicellular to multicellular algae, heterotrophic fungi, thalloid bryophyte & mosses, primitive vascular land plant Pteridophyte & ferns and seeded gymnosperms.
This course comprises two topics. Plant Ecology enrich students about the relevance of mother nature and ecosystem of environment, its importance and conservation of nature and natural resources. On the other hand Plant Taxonomy deals with the classification of angiospermic plants and its nomenclature. It also help students to identify and characterize plant species.
This course comprises two topics. Plant Anatomy illustrates students about the basic knowledge of internal organization of plant body, their composition, constituents and functions. Studying Embryology students can understand the process of embryo formation, its growth and its types. It helps students to understand how a small seed can grow into a tree.
This topic deals with the benefit of the using biofertilizer over the chemical fertilizer. It helps student to know about the basic process of manufacturing the biofertilizer, their nature and the micro-organisms which can best suited to use as biofertilizer.
This is one of the most important topic of this programme. Here students can easily understand the biochemical and physiological processes continuously happening inside the body of plants, their mechanism, their reactions, factors affecting the pace of those reactions, their limitations, site of the reactions etc. which is mostly required to forming a living being alive.
This topic helps the students to types and parts of plants which is beneficial in terms of economy. The importance of flower and its used in various ways. The way of flower cultivation, the gardens and nurseries where flowers can be grown, its proper packaging and transporting.
This course comprises two topics. Economic botany deals with the study of economically beneficial plants and plant parts, their uses, active components etc. Biotechnology helps students to know about the modification of economically valuable plants to grow more yield or resistant to pest and diseases.
This topic illustrate about the importance and scopes of gardening and nursery, their types, nature, types of flower grown, process of gardening and its maintenance.
This topic illustrate about the structures, types and compositions in the plant cell. It also help to understand the chemical composition of the cell as well as the plant body. Student can know about the gene concept of the nucleus of the cell, their expression and genetic diseases.
This topic help to know about the nutritional and medicinal value of edible and poisonous mushrooms, their characters and nature, their cultivation procedures, their nutrients, storage and marketing.