A.V.Education Society's

DEGLOOR COLLEGE, DEGLOOR

Programme Specific Outcome

Learning Objectives:

To provide an updated education to the students at large in order to know the importance and scope of the discipline and to provide mobility to students from one School or University or State to other.

To update curriculum by introducing recent advances in the subject and enable the students to face NET, SET, UPSC and other competitive examinations successfully.

To expose themselves to the diversity amongst life forms.

To develop a scientific attitude to make students open minded, critical and curious.

To develop an ability to work on their own and to make them fit for the society.

To develop skill in practical work, experiments, equipments and laboratory use along with collection and interpretation of plant materials and data.

To make aware of natural resources and environment and the importance of conserving the same.

To develop ability for the application of the acquired knowledge in the fields of life so as to make our country self reliant and self sufficient.

To appreciate and apply ethical principles to plant science research and studies.

Outcome of Program:

This program will train and orient the students in the field of diversity of different plant life forms, Fundamentals of Botany, Biochemistry, Genetics and Molecular Biology, Bioinstrumentation, r-DNA Technology, Taxonomy of Angiosperms and Systematics, Plant Biotechnology, Biostatistics and Bioinformatics, Phytochemistry and Phytotherapy in relation to Environment and Agriculture as well as Biotechnological, Pharmaceutical and Herbal Industries. This will help the students for their career development.

Enhancement Courses being offered during this program like Technology of Fruit and Vegetable Processing and Technology of Biofertilizer Production will provide job opportunities and additional specific skills to the students for self employability through the development of their own enterprises.

Skill Development Courses like Communication Skills in English or Foreign Language-French or Spanish shall help the students to develop the skills in the respective language.

Open Elective Courses of their own choice from the Other Schools of the Campus or any other Institute or from online Courses like MOOC-NPTELSWAYAM will help the students to protect their interest across the Discipline.

Course Outcome M.Sc.I year

Post graduate

Semester I(Paper wise)

1.Name of Paper I - Biology and Diversity of Microbes

Learning Objectives :
1. To study and impart knowledge about the occurrence, distribution, structure and life .
history of Bacteria, Viruses and lower plants such as fungi, lichens
2. To inspire students to study diversity of plant forms

Learning outcomes:
1. Understand the morphology, structure and importance of the various organisms .
2. Differentiate between various groups of Fungi, Bacteria, Viruses, and Lichens & Mycorrhiza.
3. Learn the life cycles of individuals belonging to Fungi, Bacteria, Viruses, Lichens & Mycorrhiza.

2.Name of paper II-Biology and diversity of Cryptogams.

Learning Objectives:
1. To study and impart knowledge about the occurrence, distribution, structure and life .
history of Algae, Byrophyta and Pterdophyta.
2. To inspire students to study diversity of plant forms .

Learning outcomes:
1. Understand the morphology, structure and importance of the various organisms .
2. Differentiate between various groups of Algae, Byrophyta and Pterdophyta.
3. Learn the life cycles of individuals belonging to Algae, Byrophyta and Pterdophyta.

3.Name of the Paper III- Taxanomy of Angiosperms and Gymnosperms.

Learning Objectives:

1. To study and impart knowledge about the occurrence, distribution, structure and life history of Gymnosperms, Angiosperms and fossil plants.
2. To inspire students to study diversity of plant forms .

Learning outcomes: 1. Understand the morphology, structure and importance of the various organisms.
2. Differentiate between various groups of Gymnosperms, Angiosperms and fossil plants.
3. Learn the characters of taxa belonging to Gymnosperms, Angiosperms and fossil plants.

4.Name of the paper IV-Plant Anatomy and Developmental Biology.

Learning Objectives :
1. To study and impart knowledge about the plant anatomy, embryology and palynology of angiosperms.
2. To inspire students to study internal structure and development of plant.

Learning outcomes:
1. Understand the anatomy, embryology and palynology of angiosperms.
2. Learn the applied aspects of palynology, embryology and anatomy.

Semester II(Paper wise)

5.Name of the paper VI-Bioinstrumentation and methods in Biology.

Learning Objectives :
1. To know working hazards and safety measures in laboratory .
2. To know principles and applications of various laboratory equipments.

Learning outcomes:
1. Understand the actual working and applications of different laboratory equipments .
2. Learn the various techniques used in life sciences and their utility.

6.Name of the paper VII-Cell biology and Genetics.

Learning Objectives :
1. To understand basic aspects of cell, cell organelles.
2. To know various basic aspects and techniques used in genetics and plant breeding.

Learning outcomes:
1. Understand the structural organization and functions of cell and cell organelles.
2. Able to understand Gene structure, linkage groups, Genetic inheritance

and extra chromosomal inheritance in plants.
3. Understand basic techniques of hybridization.

7.Name of the paper VIII-Plant Resources Utilization & Biodiversity conservation.

Learning Objectives :

1. To know economic importance of plant wealth .
2. To know principles and strategies of Biodiversity and its conservation.
3. To study role of various organization in sustainable development .

Learning outcomes:

1. Study of origin, cultivation and economic importances of various plant wealth .
2. Learn the importance of biodiversity and motivation of students for its conservation .

8.Name of the Paper IX-Plant Ecology, Environmental Biology and Photogeography.

Learning Objectives:

1. Acquainted with basic concepts of Ecology, Ecosystem, and phytogeography .
2. To learn basic aspects of recent problems related to enviormental biology .

Learning outcomes:

1. Able to understand the ecological principles, structure and functions of ecosystem.
2. Learn about the causes of environmental pollution and its control measures.
3. Learn about different phytogeographic regions and their vegetation pattern.

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