

Agasti Arts Commerce and Dadasaheb Rupwate Science College

Akole, Tauka Akole Dist - Ahmednagar

Department of Botany

Name of the Faculty:	Science and Technology
Name of the Department	Botany
UG Programme	B.Sc.
Programme Specific Outcomes (PSO)	
<ol style="list-style-type: none">1.To promote scientific approach, offer in depth scientific knowledge of basic as concepts in Botany subject2. To enrich knowledge of Botany through Botanical Excursions and Industrial Visits3. To make acquainted students with recent updated scientific and technological developments4. To create foundation of Research and Development in Botany5. To facilitate students to learn various experiments6. To train students in skills related to research in the fields of Agriculture, Tissue culture, Biotechnology.7. To assist students to built up progressive and successful profession in Botany	
Course Outcomes (CO) S.Y.B. Sc. (CBCS Pattern)	
Semester – III	
BO 231 Taxonomy of Angiosperms and Plant Ecology After the completion of this course students will be able to	
<ol style="list-style-type: none">1. Be familiar with fundamental aspects of Angiosperms and Plant Ecology2. To Understand Plants Nomenclature and Identification3. To know importance of Taxonomy and Ecology of plants4. To realize scope and importance of Plant Identification5. Be aware of Ecosystems and diversity of plants	
BO 232 Plant Physiology After the completion of this course students will be able to	
<ol style="list-style-type: none">1. Know Fundamentals of Plant Physiology2. Understand Physiological processes performed by plants3. Study Physiological Parameters: Seed Dormancy, Seed Germination4. Be familiar about Applied aspects of Photoperiodism and Vernalization5. Understand Commercial Aspects of Bio-fertilizers : Blue Green Algae	

BO 233 Practical based on BO 231 & BO 232

After the completion of this course students will be able to

1. Make use of Tools of Taxonomy, to know working and application of certain Ecological Instruments
2. Imbibe Study Of Plant families along with description of Flowering Plants and study Biodiversity of Plants through Botanical Excursion.
3. Perform Vegetation Study of plants
4. Acquire knowledge of methods related to isolation of Proteins
5. Get training of various Physiological techniques
6. Develop interest in Botany by participating in the field visits: Floriculture industry, Soil testing center and Seed Testing Centers arranged by Department of Botany.

Semester – IV**BO 241 Plant Anatomy and Embryology**

After the completion of this course students will be able to

1. Be familiar with scope and importance of Plant Anatomy and Embryology
2. Understand fundamentals of Plant Embryology by using microscopic techniques.
3. Imbibe Developmental aspects of Plant Anatomy and Embryology
4. Go through commercial aspects of Plant Anatomy
5. Study Embryo of Dicotyledonous and Monocotyledonous of Plants

BO 242 Plant Biotechnology

After the completion of this course students will be able to

1. Know Fundamentals of Biotechnology
2. Understand Advances of Biotechnology
3. Imbibe Study various techniques of Plant Genetic Engineering
4. Study Applied aspects of Plant Biotechnology
5. Understand Commercial Aspects Plant Biotechnology, Biofuel Use and Bioremediation

BO 243 Practical's based on BO 241 & BO 242

After the completion of this course students will be able to

1. Do Dissection of plants parts
2. Perform Embryological study
3. Cultivate *Spirulina* as Single Cell Protein
4. Understand GEL electrophoresis
5. Perform Plant Tissue culture Method for building own Business