



AHMEDNAGAR JILHAMARATHA VIDYAPRASARAKSAMAJ'S  
**SHRI MULIKADEVICOLLEGE, NIGHOJ**  
 TAL. PARNER DIST. AHMEDNAGAR

**Department of Botany**

**Course Outcomes**

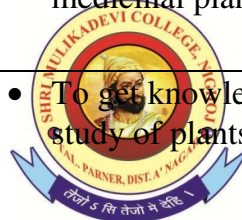
**Programs offered**

Sr.No.	Program	Program Objectives	Program Specific Objectives
1	B.Sc Botany	<p><b>PO1. Critical Thinking:</b> The curriculum made for the betterment of the student, enhance the ability and thinking power.</p> <p><b>PO2. Effective Communication:</b> the complete medium of program is in English, so students will communicate in the same.</p> <p><b>PO3. Social Interaction:</b> Due to continuous field visits in the interior region, students interact with the social activities of their study.</p> <p><b>PO4. Effective citizenship:</b> Being the botanist students must communicate with many people, they become more familiar as well as interactive.</p> <p><b>PO5. Ethics:</b> The subject teaches students about the ethical approach, not to cut the plants.</p> <p><b>PO6. Environment and sustainability:</b> Conservation practices are studied for sustainable development.</p> <p><b>PO7. Self -directed and life-long learning:</b> each and every aspect of the module teacher's life long learning.</p>	<p><b>PSO1.</b> To provide through knowledge about various plant groups from primitive to highly evolved.</p> <p><b>PSO2.</b> To make the students aware of applications of different plants in various industries.</p> <p><b>PSO3.</b> To highlight the potential of these studies to become an entrepreneur to equip the students with skills related to laboratory as well as field-based studies.</p> <p>To make the students aware about conservation and sustainable use of plants.</p> <p>To create foundation for further studies in Botany. To address the socio-economical challenges related to plant sciences.</p> <p>To facilitate students for taking up and shaping a successful career in Botany.</p>

### Courses offered

Sr.No.	Course	Course Outcomes
1	<b>F.Y.B.Sc Botany 111.Plant Diversity, Plant Morphology and Anatomy</b>	<ul style="list-style-type: none"> <li>To Provide through knowledge about various primitive plant groups.</li> </ul>
	<b>F.Y.B.Sc Botany 112 .Industrial Botany</b>	<ul style="list-style-type: none"> <li>To make the students aware of applications of different plants in various industries.</li> <li>To Highlight the potential of these studies to become an entrepreneur.</li> </ul>
	<b>F.Y.B.Sc Botany Practical BO.111 and BO.112</b>	<ul style="list-style-type: none"> <li>To get acquainted with the subject in live form and visits to industries.</li> </ul>
2	<b>S.Y.B.Sc Botany Semester - I 211.Taxonomy of Angiosperm and Plant Community.</b>	<ul style="list-style-type: none"> <li>To Provide through knowledge about various highly evolved plant groups and their community structure.</li> </ul>
	<b>S.Y.B.Sc Botany Semester-I 212.Plant Physiology</b>	<ul style="list-style-type: none"> <li>To study the different metabolic processes for synthesis of food material.</li> </ul>
	<b>S.Y.B.Sc Botany Semester - II 221.Plant Anatomy and Embryology.</b>	<ul style="list-style-type: none"> <li>Internal structure will be observed for further studies as well as to study the developmental pattern of plant.</li> </ul>
	<b>S.Y.B.Sc Botany Semester -II S.Y.B.Sc Botany 222.Plant Biotechnology</b>	<ul style="list-style-type: none"> <li>The study of technique of multiplication and non-techniques.</li> </ul>
	<b>Annual Practical S.Y.B.Sc Botany Practical BO.211, BO.212, BO.221 and BO.222</b>	<ul style="list-style-type: none"> <li>To equip the students with skills related to laboratory as well as field based studies.</li> </ul>
03	<b>T.Y.B.Sc Botany Semester-III BO 351 Algae and Fungi</b>	<ul style="list-style-type: none"> <li>Interpret the performance characteristics and life cycles of various lower plants.</li> </ul>
	<b>T.Y.B.Sc Botany Semester-III BO 352 Archegoniate</b>	<ul style="list-style-type: none"> <li>To develop the mind from lower plants to higher plants.</li> </ul>

<b>T.Y.B.Sc Botany Semester-III BO 353 Spermatophyta and Paleobotany</b>	<ul style="list-style-type: none"> <li>• Evaluate the performance of various line of evolution with respect to live and fossil forms.</li> </ul>	
<b>T.Y.B.Sc Botany Semester-III BO 354 Plant Ecology</b>	<ul style="list-style-type: none"> <li>• To make the students aware about conservation and sustainable use of plants.</li> </ul>	
<b>T.Y.B.Sc Botany Semester-III BO 355 Cell and Molecular Biology</b>	<ul style="list-style-type: none"> <li>• To develop the mind from cellular to molecular level.</li> </ul>	
<b>T.Y.B.Sc Botany Semester-III BO 356 Genetics</b>	<ul style="list-style-type: none"> <li>• Analyze the evolution with genetic characteristics for future aspects.</li> </ul>	
<b>T.Y.B.Sc Botany Semester-III BO 3510 Medicinal Botany</b>	<ul style="list-style-type: none"> <li>• To make the students aware about uses of medicinal plants.</li> </ul>	
<b>T.Y.B.Sc Botany Semester-III BO 3511 Plant Diversity and Human Health</b>	<ul style="list-style-type: none"> <li>• To get knowledge of comparative study of plants and human.</li> </ul>	
<b>T.Y.B.Sc Botany Semester-IV BO 361 Plant Physiology and Metabolism</b>	<ul style="list-style-type: none"> <li>• To study the different metabolic processes for synthesis of food material in details.</li> </ul>	
<b>T.Y.B.Sc Botany Semester-IV BO 362 Biochemistry</b>	<ul style="list-style-type: none"> <li>• To study the different biochemical processes for synthesis of various metabolites.</li> </ul>	
<b>T.Y.B.Sc Botany Semester-IV BO 363 Plant Pathology</b>	<ul style="list-style-type: none"> <li>• Design different post-harvest methods to cope over diseases.</li> </ul>	
<b>T.Y.B.Sc Botany Semester-IV BO 364 Evolution and Population Genetics</b>	<ul style="list-style-type: none"> <li>• To study the how and why the frequencies of alleles and genotypes change over time within and between populations.</li> </ul>	
<b>T.Y.B.Sc Botany Semester-IV BO 365 Advanced Plant Biotechnology</b>	<ul style="list-style-type: none"> <li>• To study the technique of multiplication and non-technique.</li> </ul>	
<b>T.Y.B.Sc Botany Semester-IV BO 366 Plant Breeding and Seed Technology</b>	<ul style="list-style-type: none"> <li>• Evaluate the performance of multiplication technique and seed storage technique</li> </ul>	



	<b>T.Y.B.Sc Botany Semester-IV BO 3610 Nursery and Gardening Management</b>	<ul style="list-style-type: none"><li>• To improve the knowledge about nursery and gardening for future planning.</li></ul>
	<b>T.Y.B.Sc Botany Semester-IV BO 3611 Biofertilizers</b>	<ul style="list-style-type: none"><li>• To study the comparison between chemical fertilizers and biofertilizers for improve the quality of soil as well as crops.</li></ul>