Rayat Shikshan Sanstha's

Annasaheb Awate Arts, Commerce and Hutatma Babu Genu Science College

Manchar, Tal. Ambegaon, Dist. Pune

DEPARTMENT OF BOTANY

Program Outcomes (PO) and Program Specific Outcomes (PSO) PG

Sr. No.	Program	Program Outcomes (PO)	Program Specific Outcomes (PSO)
1	M. Sc.	1. Understand the scope and significance of the discipline. 2. Imbibe love and curiosity towards nature through the living plants. 3. In order to make students open-minded and curious, we try our best to enhance and develop a scientific attitude. 4. We make the students fit for the society by enabling them to work hard. 5. Make the students exposed to the diverse life forms. 6. Make them skilled in practical work, experiments, laboratory equipment and to interpret correctly on biological materials and data. 7. Develop interest in biological research. 8. Encourage the students to do research in related disciplines. 9. Develop a thirst to preserve the natural resources and environment. 10. Develop the ability for the application of acquired knowledge in various fields of life so as to make our country self-sufficient 11. Appreciate and apply ethical principles to biological science research and studies	Plant science is now an amalgamation of basic and applied science. Plants besides capability of plants to trap solar energy and provide food to all cannot be replicated by any system. Conventional studies like plant identification are now being supplemented with molecular techniques like DNA Barcoding. The courses have been designed to benefit all Botany students to study various aspects of plant science including its practical applications. Research work in research institutes and industry, doctoral work, biodiversity studies, entrepreneurship, scientific writing relevant topics have been included in the curriculum. PSO 1: Understanding the classification of plants, cryptogams to Spermatophyte. Identification of the flora within field Study of biodiversity in relation to habitat will correlates with climate change, land and forest degradation. Application of Botany in agriculture is through study of plant pathology. PSO 2: Understand the ultra-structure and function of cell membranes, cell communications, signaling, genetics, anatomy, taxonomy, ecology and plant Physiology and biochemistry. To understand the multi functionality of plant cells in production of fine chemicals and industrial applications. PSO3: Molecular Physiological adaptations in plants in response to biotic and abiotic stress. Genes responsible for stress tolerance genetic engineering of plants.