



Shri Shivaji Education Society Amravati's  
**Science College,**  
**Congress Nagar, Nagpur**  
**DEPARTMENT OF BOTANY**



## PROGRAMME OUTCOMES

### BACHELOR OF SCIENCE

**Program Outcomes (POs) for B. Sc Programme: After completing the graduate studies in science, students will be able to**

PO1: Demonstrate proficient application of theoretical knowledge and practical skills gained through the graduate program in their respective field of work.

PO2: Evaluate and analyze both simple and complex real-life situations, utilizing scientific concepts to provide effective solutions.

PO3: Develop skills in handling scientific instruments, planning and performing in laboratory experiments.

PO4: Acquire industry-specific skills to remain competitive in a rapidly evolving global environment.

PO5: Apply acquired skills to independently design and conduct experiments, interpret data, develop hypotheses, and foster a curious and innovative mindset towards research.

PO6: Recognize the societal and environmental impact of scientific solutions and demonstrate an understanding of the importance of sustainable development.

PO7: Go for higher studies i.e. M. Sc and then do some research for the welfare of mankind.

PO8: Instill ethical, moral, and social values in personal and social life, cultivating individuals who are refined and conscientious.

PO9: Develop the ability to work effectively both independently and as part of a multidisciplinary team.

PO10: Understand the core fundamentals of basic sciences.

PO11: Understand the diverse day to day applications of various fields.

PO12: Analyze any data in a scientific manner, interpret the data and come to a logical conclusion.

PO14: Apply the acquired knowledge and the applications of basic sciences to community.

## MASTER OF SCIENCE

### **Program Outcomes (POs) for Postgraduates Programme:**

After completing the post-graduate studies in any subject belonging to the science stream student will be able to

PO1: Apply domain-specific knowledge and expertise to effectively address complex challenges in professional, social, and personal contexts.

PO2: Cultivate a multidisciplinary mindset and contribute to the global knowledge base, with a specific focus on advancing the knowledge and development of the country.

PO3: Develop strong communication and presentation skills to enhance employability and excel in the job market.

PO4: Develop written and oral communication skills by as these students give frequent presentations and seminars on various scientific theories and activities.

PO5: Evaluate and articulate the impact of the subject on advancements in science and technology, benefiting the general population and contributing to societal development.

PO6: To inculcate the scientific temperament in the students and outside the scientific community.

PO7: Enable students acquire jobs in R & D in scientific laboratories, industries, teaching at both school or college level (with NET), management, marketing and sales, in public sector organizations and to pursue research.

PO8: Identify areas that warrant further research and undertake independent research projects within research and development organizations or industrial settings.

PO9: Demonstrate a comprehensive understanding of both theoretical and applied knowledge within their core discipline.

PO10: Apply the necessary skills and knowledge to excel in healthcare organizations, data science laboratories, environmental organizations, food and beverage industries, and pharmaceutical industries, enhancing their placement opportunities.