



Jamal Mohamed College (Autonomous) Trichy

Department of Botany

B.Sc. Botany

Students will be able to

- ✚ Recall the range of plant diversity in terms of structures, function, environment relationship and classification of plants.
- ✚ Develop basic knowledge to make a substantial contribution in environmental science for the biodiversity conservation and sustainable use of natural resources.
- ✚ Apply the practical skills of handling laboratory equipments in the field and in the laboratory, safely.
- ✚ Generate employment opportunities through self employed entrepreneurial skill and competitive exams.
- ✚ Construct multidisciplinary and interdisciplinary knowledge for the promotion of communities, population and ecosystems.



Jamal Mohamed College (Autonomous) Trichy

M.Sc. Botany

Students will be able to

- ✚ Identify various group of plants, their functions, utilization and conservation aspects and give scientific explanation for the unity and diversity on earth.
- ✚ Demonstrate knowledge on primary and modern techniques in terms of theory and practical application and also handling of laboratory equipments for biological research.
- ✚ Combine the knowledge of interdisciplinary subjects such as molecular biology, Biotechnology, Bioinformatics and Biostatistics for the mitigation of biodiversity and environmental issues.
- ✚ Apply the cultivation of sea weeds, floriculture and plant tissue culture for entrepreneurship and commercialization.
- ✚ Appraise various analytical techniques for planning and execution of biological experiments, and drafting them as a report.

M.Phil Botany

Students will be able to

- ✚ Outline the recent advances in Botany such as molecular taxonomy, sequence analysis, analytical, statistical methods for the specific areas of research.
- ✚ Illustrate the teaching learning skills by being proponent in the classroom and laboratory setup.
- ✚ Organize the laboratory practices and experimentation, compile and communicate, them into research report based on the principles of thesis writing and research publication.
- ✚ Approve changes in environment with high integrity and transport ethical professionals.
- ✚ Conceive opportunities for higher education and research career.