

Department of Botany

University School of Sciences,
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Head : Dr. Yogesh T. Jasrai



Brief History

Botany Department established in 1959 by (Late) Professor J.J. Chinoy is known all over for researches on Ascorbic acid, Growth and Development, Stress Physiology (Salt and Drought resistance) and Pre sowing seed treatments. Department has received many research grants from US - PL 480, DST, ICAR, UGC, CSIR, Gujarat Government, NGOs, Industries and other funding agencies etc. Presently, the thrust areas of research have diversified to Stress Physiology, Tissue Culture and Bio – technology, Biodiversity-Floristic, Horticulture and Floriculture, Medicinal plants-Photochemistry, Ecology and Environmental Biology.

Mission

To impart knowledge and training in the front – line areas of plant sciences. The goal is to equip graduate and post graduate students to learn and achieve specialization for respective new job opportunities. Moreover, with such training they will be great entrepreneurs to start new prosperous ventures in the selected fields of their advancements.

The Culture

The department has a very good and serene atmosphere for study. Our aim has always been to focus on the human dimension. The department brings us together with exceptionally supportive faculty members, students and alumni. The faculty aims to inculcate in the students a culture characterized by integrity, mutual respect, enthusiasm, and hard work. There are lots of teaching and co-curricular activities being conducted successfully in the department.

The Alumni

More than 1500 students have completed their study from the department. The alumni are very well placed in India and abroad. Many of them hold senior positions in major corporations and some are also successful entrepreneurs. They have contributed significantly in all the areas of plant science and have proved to be an invaluable asset to their respective organizations. They offer their insights and experiences to students of the department and share career advice through formal and informal exchanges.

Present Scenario

Dr. Yogesh T. Jasrai, Professor has made significant contribution in the field of Plant Tissue Culture, Biotechnology, Biodiversity, Medicinal plants- phytochemistry. The newly introduced innovative courses are also being coordinated in this department.

Dr. Archana U. Mankad, Associate Professor is working on post harvest physiological changes in plants with special emphasis on cut flowers to suit the floriculture industry. The growth, development and flowering of horticultural plants as influenced by PGR's are also being studied.

Dr. Hitesh A. Solanki, Associate Professor is working on pollution and ecology with special reference to water and soil sediments.

Dr. Himanshu A. Pandya, Assistant Professor is working on micropropagation and biotechnology of selected plants.

Infrastructure and Facilities

The Department is having a well developed, organized with basic infrastructure.

AUDITORIUM

All seminars and workshops are held at auditorium hall which has a very good seating arrangement with Audio-Video facility.

LIBRARY

The students of department have access to a well-stocked library, which comprises of extensive collection of plant science related books and periodicals, over and above the central library of the University. The collection of books is updated periodically, as and when required.

LABORATORY

The department has full fledged laboratories of Plant Physiology, Taxonomy, Horticulture, Ecology - Environmental Biology, Plant Tissue Culture - Biotechnology. The Department is equipped with UV Spectrophotometer, Refrigerated Centrifuge, Flame Photometer, Electrophoresis unit (DNA/Protein), PCR, Cryo-storage, Densitometer, UV Transilluminator, Leaf area meter, Laminar air flow, Tissue Culture Lab (A.C.), , Photo Flourimeter, D.O.Meter, Turbidity Meter, Oil Separation Unit & other scientific equipments, BOD, incubator, GPS, Increment borer, Road – meter etc.

COMPUTER

The laboratory at department functions in a fully networked environment providing computer facility. There are 29 computers in the department. The students have free access to 64 kbps leased line internet connection.

GREENHOUSE

There is a greenhouse (1000sq ft) for growing plants under suitable environmental conditions for hardening of tissue culture raised plantlets. The collection of some important medicinal plants of Gujarat is grown in medicinal park of the department.

NET HOUSE

The net house (4000sq ft) facilitates the pot/ field experiments of researchers and M.Sc. students

MEDICINAL PARK

There is collection of important medicinal plants and various plants forms collected from different areas/ location of Gujarat and India.

PALM GROOVE

Palm groove have been established with around 50 different palms collected from various places.

HERBARIUM

The herbarium facility has a stock of plant herbaria, seed samples collected from various forests of Gujarat and India.

Research output

- Department is well known in India and abroad for its researches.
- Ph.D. is produced - Around 200,
- M.Phil. is produced - Around 100,
- Research publications - more than 550 papers in reputed Journals.
- Members have been duly recognized and awarded Fellowships of National and International honors.
- Department had several research projects funded by PL 480, CSIR, ICAR, UGC, DST, DAE, MOES etc, State Government, Industries and other funding agencies.
- The MOU have been signed with Iladevi Cataract Institute and Center for Environment Education, Ahmedabad.

Department profile

- Department is facilitated by DST (New Delhi) under FIST programme.
- Department organizes National Seminars, Workshops, Symposium, Training courses, Conferences regularly every year.
- Department also organizes regularly Refresher Courses in Botany, Life Sciences and Environment Sciences for college and University teachers.
- Professor J.J. Chinoy Memorial Lectures and Prof. B.S. Vaidya Memorial Lectures are being delivered regularly by eminent botanists every year.
- Department has Gujarat University Botanical Society (GUBS) for various co-curricular activities.
- Five Women Scientists, DST, New Delhi Fellowship awarded have been working in the department on various fields.
- There are three gold medals awarded in various subjects being coordinated by the department
 - a. Professor J.J. Chinoy Gold Medal (Botany)
 - b. Professor C.K. Shah Gold Medal (Botany)
 - c. Shri Sajivbhai Dayalbhai Patel Gold Medal (Bioinformatics)

Courses Offered

Course 1

Course Name	M.Sc. Botany		
Course Type	Grant in Aid.		
Intake	30 students		
Eligibility	As per University Rules; B.Sc. with Botany as main subject		
Subject offered / Specialization	Advanced Plant Physiology.		
Duration	2 years		
Course Commencement	June		
Admission Process	By Merit		
Fees		1 st Semester	2 nd Semester to 4 th Semester
	Boys	3690/-	3390/-
	Girls	2190/-	1890/-
Courses offered at	Botany Department, University School of Sciences, Gujarat University, Ahmedabad-380009, Gujarat, India		
Future Career Opportunity / Placement Facility	Teaching and Research.		

Course 2

Course Name	M.Phil. Botany		
Course Type	Grant in Aid.		
Intake	4 students per M.Phil. Guide		
Eligibility	55 % or above in M.Sc.		
Subject offered / Specialization	Advanced Plant Physiology/ Ecology		
Duration	1 year		
Course Commencement	June		
Admission Process	By Merit in Entrance Exam & Interview		
Fees	Boys	4590/-	
	Girls	3090/-	
Courses offered at	Botany Department, University School of Sciences, Gujarat University, Ahmedabad-380009, Gujarat, India		
Future Career Opportunity / Placement Facility	Teaching and Research.		

Course 3

Course Name	Ph.D. Botany		
Course Type	Grant in Aid.		
Intake	7 students per Ph.D. guide		
Eligibility	55 % or above in M.Sc.		
Subject offered / Specialization	Advanced Plant Physiology/ Ecology		
Duration	3 years		
Course Commencement	June		
Admission Process	By Merit in Entrance Exam & Interview		
Fees		1 st Semester	2 nd Semester to 4 th Semester
	Boys	5590/-	5090/-
	Girls	4090/-	3590/-
Courses offered at	Botany Department, University School of Sciences, Gujarat University, Ahmedabad-380009, Gujarat, India		
Future Career Opportunity / Placement Facility	Teaching and Research.		

Course 4

Course Name	M.Sc. Bioinformatics		
Course Type	Self-financed		
Intake	15 students		
Eligibility	55 % or above in B.Sc.		
Subject offered / Specialization	---		
Duration	2 years		
Course Commencement	June		
Admission Process	By entrance exam & Interview		
Fees per semester	Regular Seats	Rs. 15,000/-	
	High Fee Seats	Rs. 24,000/-	
Courses offered at	Botany Department, University School of Sciences, Gujarat University, Ahmedabad-380009, Gujarat, India		
Future Career Opportunity / Placement Facility	Govt. Sector, Private Sector, NGOs, Others		

Course 5

Course Name	M.Phil. Bioinformatics
Course Type	Self-financed
Intake	4 students per M.Phil. Guide
Eligibility	55 % or above in B.Sc.
Subject offered / Specialization	---
Duration	1 year
Course Commencement	June
Admission Process	By entrance exam & Interview
Fees per semester	Rs. 7,000/- per Semester
Courses offered at	Botany Department, University School of Sciences, Gujarat University, Ahmedabad-380009, Gujarat, India
Future Career Opportunity / Placement Facility	Teaching and Research

Course 6

Course Name	Ph.D. Bioinformatics
Course Type	Self-financed
Intake	7 students per M.Phil. Guide
Eligibility	55 % or above in B.Sc.
Subject offered / Specialization	---
Duration	3 years
Course Commencement	June
Admission Process	By entrance exam & Interview
Fees per semester	Rs. 18,000/- per Semester
Courses offered at	Botany Department, University School of Sciences, Gujarat University, Ahmedabad-380009, Gujarat, India
Future Career Opportunity / Placement Facility	Teaching and Research

Course 7

Course Name	M.Sc. Climate Change Impacts Management (CCIM)		
Course Type	Self-financed		
Intake	30 students		
Eligibility	55 % or above in B.Sc.		
Subject offered / Specialization	---		
Duration	2 years		
Course Commencement	June		
Admission Process	By entrance exam & Interview		
Fees per semester	Regular Seats	Rs. 20,000/-	
	High Fee Seats	Rs. 30,000/-	
Courses offered at	Botany Department, University School of Sciences, Gujarat University, Ahmedabad-380009, Gujarat, India		
Future Career Opportunity / Placement Facility	Govt. Sector, Private Sector, NGOs, Others		

Course 8

Course Name	M.Phil. Climate Change Impacts Management (CCIM)		
Course Type	Self-financed		
Intake	4 students per M.Phil. Guide		
Eligibility	55 % or above in B.Sc.		
Subject offered / Specialization	---		
Duration	1 year		
Course Commencement	June		
Admission Process	By entrance exam & Interview		
Fees per semester	Rs. 7,000/- per Semester		
Courses offered at	Botany Department, University School of Sciences, Gujarat University, Ahmedabad-380009, Gujarat, India		
Future Career Opportunity / Placement Facility	Teaching and Research		

Course 9

Course Name	Ph.D. Climate Change Impacts Management (CCIM)		
Course Type	Self-financed		
Intake	7 students per Ph.D. guide		
Eligibility	55 % or above in B.Sc.		
Subject offered / Specialization	---		
Duration	3 years		
Course Commencement	June		
Admission Process	By entrance exam & Interview		
Fees per semester	Rs. 18,000/- per Semester		
Courses offered at	Botany Department, University School of Sciences, Gujarat University, Ahmedabad-380009, Gujarat, India		
Future Career Opportunity / Placement Facility	Teaching and Research		

Course 10

Course Name	P.G. Diploma in Plant Tissue Culture		
Course Type	Self-financed		
Intake	15 students		
Eligibility	55 % or above in B.Sc.		
Subject offered / Specialization	---		
Duration	1 year		
Course Commencement	June		
Admission Process	By entrance exam & Interview		
Fees per semester	Regular Seats	Rs. 09,000/-	
	High Fee Seats	Rs. 15,000/-	
Courses offered at	Botany Department, University School of Sciences, Gujarat University, Ahmedabad-380009, Gujarat, India		
Future Career Opportunity / Placement Facility	Govt. Sector, Private Sector, NGOs, Others		

Course 11

Course Name	P.G. Diploma in Biodiversity Management		
Course Type	Self-financed		
Intake	15 students		
Eligibility	55 % or above in B.Sc.		
Subject offered / Specialization	---		
Duration	1 year		
Course Commencement	June		
Admission Process	By entrance exam & Interview		
Fees per semester	Regular Seats	Rs. 09,000/-	
	High Fee Seats	Rs. 15,000/-	
Courses offered at	Botany Department, University School of Sciences, Gujarat University, Ahmedabad-380009, Gujarat, India		
Future Career Opportunity / Placement Facility	Govt. Sector, Private Sector, NGOs, Others		

Faculty

Name	Dr. Yogesh T. Jasrai
Qualification	M.Sc., Ph.D.
Designation	Head & Professor
Areas of Specialization	Botany (Plant Tissue Culture, Plant physiology, Biodiversity, Medicinal Plants, Plant Environment)
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Name	Dr. (Mrs.) Archana U. Mankad
Qualification	M.Sc., B.Ed., Ph.D.
Designation	Reader
Areas of Specialization	Botany (Plant physiology, Ornamental plants & Horticulture)
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Name	Dr. Hitesh A. Solanki
Qualification	M.Sc., M.Phil., B.Ed., Ph.D.
Designation	Reader
Areas of Specialization	Botany (Ecology, Plant Biodiversity, Medical plants)
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Name	Dr. Himanshu A. Pandya
Qualification	M.Sc., Ph.D.
Designation	Lecturer
Areas of Specialization	Botany (Horticulture, Plant Biotechnology, Plant physiology, Plant Biochemistry)
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