



SHIVAJI UNIVERSITY, KOLHAPUR

Department of Botany

2023 - 2024

Department of Botany

Establishment Year : 1964

Head of the Department : Dr. RAJARAM VITHOBA GURAV

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Autonomous : No

Programmes Offered in the Department

Sr. No	Programme Name	Branch	Duration		Intake	Eligibility Criteria
			Year	Month		
1	M.Sc.-Master of Science	Botany	2	0	50	B. Sc. with Botany as per merit of Entrance exam

Ph.D Offered : Yes

Teaching Staff Information

Sr.No	Faculty Name	Designation
1	Dr. Shri. Rajaram Vithoba Gurav	PROFESSOR
2	Dr. Smt. Varsha Dilip Jadhav	PROFESSOR
3	Dr. Shri. Nikhil Babruwahan Gaikwad	PROFESSOR
4	Dr. Shri. Manoj Madhwanand Lekhak	ASSISTANT PROFESSOR
5	Dr. Smt. Kalyani Babasaheb Pawar	ASSISTANT PROFESSOR
6	Dr. Smt. Swaroopa Amit Patil	ASSISTANT PROFESSOR
7	Dr. Shri. Savaliram G Ghane	ASSISTANT PROFESSOR
8	Mansingraj Shahajirao Nimbalkar	

Infrastructure Facilities

Auditorium
Common Room
Laboratory
Ramp available for Persons with Physical Disability.
Seperate Common Room exclusively for Girls

Classrooms
Conference Hall
Library
Seminar Halls
Smart Classrooms

Equipments

Sr.No	Equipments Name	Description / Use
1	Aromatic Oil Extraction Unit	It is used to extract the volatile oils or to purify the liquids that contain either nonvolatile impurities, such as salts, or very small amounts of higher- or lower-boiling liquids.
2	Fluorescence Microscope	It is used to study the chromosome structural details with the help of fluorescent dyes
3	Gel Documentation	Gel documentation systems, also known as 'gel docs' or 'gel imagers,' are used to record and analyze the results of gel electrophoresis and membrane blotting experiments.
4	Gel electrophoresis apparatus with Trans illuminator.	In the separation of DNA fragments for DNA fingerprinting to investigate crime scenes. To analyze results of polymerase chain reaction. To analyze genes associated with a particular illness. In DNA profiling for taxonomy studies to distinguish different species.
5	High-performance liquid chromatography (HPLC)	It is needed to study several metabolites, their quantification and characterization.
6	Light research Microscopes	It is used to study chromosome morphology and karyotype studies. Similarly it is also used for anatomical, embryological and histological studies.
7	Polymerase chain reaction (PCR)	PCR is a laboratory technique for rapidly producing (amplifying) millions to billions of copies of a specific segment of DNA. It is commonly used for a wide variety of applications including genotyping, cloning, mutation detection, sequencing, microarrays, forensics, and paternity testing.
8	Refrigerated centrifuge	A refrigerated centrifuge is a laboratory equipment used for the separation of temperature sensitive macromolecules and cellular structures.
9	Scanning Electron Microscope (SEM)	Widely used in Biological and Material Sciences for research
10	Stereo Microscopes	It is used for three dimensional details of biological samples
11	UV-visible double beam Spectrophotometers	UV-visible Spectrophotometry is used to measure the concentration and purity of an unknown sample.
12	Ultra low temperature Cabinet – Ultra Freeze	It is used by laboratories for storing drugs, enzymes, biological materials, tissue samples etc. Maintaining a temperature between -30° to -40° Fahrenheit, the low temperature is ideal for storing sensitive materials that have high perishability.

Other information:

- Lead Botanical Garden : - 42 acres
- Computer Laboratory with Internet Facility.
- Multipurpose Hall 'Nilambari'
- Departmental Library
- Museum
- Herbarium
- Best Department Award for the year 2021-22
- Patent granted 21-22
- D. Sc. Degree awarded to Dr. S. R. Yadav
- Prof. Y. S. Murthy Gold Medal Award of Indian Botanical Society 2022-23 to Dr. M. M. Lekhak
- Prof. S. N. Dixit Gold medal Award of Indian Botanical Society 2022-23 to Dr. S. M. Patil
- Research distinction award in ethnopharmacology 2022

Department Head Signature