


ZOOLOGY DEPARTMENT

FACILITIES

04.08.2022

GREEN CORRIDORS OF ZOOLOGY (GROUND FLOOR)

FIRST FLOOR GREEN CORRIDORS

GREEN CAMPUS INITIATIVE VERMICOMPOST FORMATION

CENTRAL INSTRUMENTATION FACILITY OF ZOOLOGY

1. **Confocal microscope (under SIC)**
2. **Atomic force absorption Spectrophotometer**
3. **High performance liquid chromatography (H system**
4. **Transilluminators**
5. **Cell culture laminar hoods (Biosafety Cabine**
6. **Gel-documentation system**
7. **Cell culture CO2 Incubators**
8. **ELISA plate reader**
9. **Laminar hood for microbial culture**
10. **Tissue homogenizer**
11. **Microbial culture BOD Incubators**
12. **Lyophilization facility**

13. Centrifuges (speed: low, medium, high)
14. Sonication facility
15. Protein gel electrophoresis apparatus
16. Thermal cyclers
17. Agarose gel electrophoresis apparatus
18. Thermal Ovens and Microwave ovens
19. Spectrophotometers
20. Autoclaves
21. Nano-drop spectrophotometer
22. Water baths
23. Water distillation systems
24. Histology facility and microtomy

IN THE ZOOLOGY CIL

IN THE CIL OF ZOOLOGY

1. Confocal microscopy is a powerful tool that **can be used to create 3D images of the structures within living cells** and to examine the dynamics of cellular processes

IN THE CIL OF ZOOLOGY

2. Atomic absorption spectrometry (AAS) is an easy, high-throughput, and inexpensive technology used primarily **to analyze elements in solution**. As such, AAS is used in food and beverage, water, clinical research, and pharmaceutical analysis.

IN THE ZOOLOGY CIL

3. High performance liquid chromatography (HPLC) system

As well as identifying nutrient levels for a direct diagnosis, HPLC is often used to analyse biological samples from people with existing diagnoses. By identifying specific metabolites in patients with Parkinson's or heart disease, for example, researchers can use them a biomarkers to assist with early diagnosis for future patients

IN THE CIL ZOOLOGY

Centrifuges (speed: low, medium, high)

Applications of Centrifugation To separate two miscible substances To analyze the hydrodynamic properties of macromolecules Purification of mammalian cells Fractionation of subcellular organelles (including membranes/membrane fractions) Fractionation of membrane vesicles

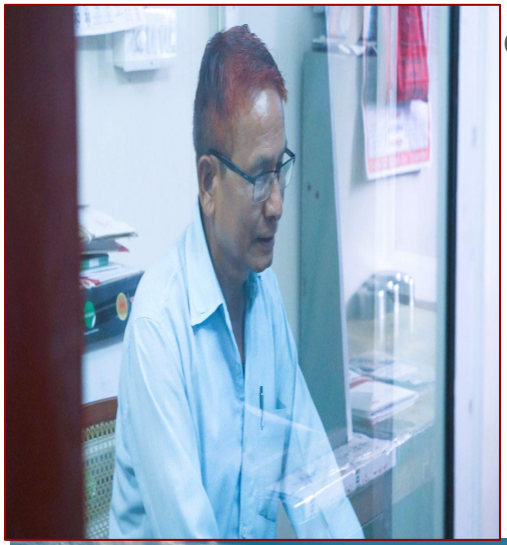
IN THE CIL OF ZOOLOGY

ULTRASONIC HOMOGENIZER

Ultrasonic homogenizer is a homogenization process that can take place through cavitation or by the means of ultrasonic waves. The combination process of cavitation and ultrasonic homogenization makes homogenizers an attractive choice for the purposes of cell size reduction and cell disruptions.

LIBRARY OF ZOOLOGY

Control room located near green corridor



Office of Zoology

1. Official work
2. Management and maintenance of record
3. Admision, counselling, results and student's daily problems dealing control room

2. LABORATORY MANAGEMENT AND MAINTENANCE : PRACTICAL DETAILS AND WATER SOIL ANALYSIS IN ENVIRONMENTAL BIOLOGY LAB OF ZOOLOGY DEPARTMENT (FIRST FLOOR)

SENIOR TECHNICIAN SHRI U.N. PANDYA DESCRIBING THE DETAILS OF DISSOLVED OXYGEN TECHNIQUE

3. **STORE, PURCHASE AND FINANCIAL MANAGEMENT OF ZOOLOGY** : INSTRUMENTS, CHEMICALS AND OTHER GOODS PURCHASE FACILITY FOR UG, PG AND RESEARCH CONSULTATION OF ALL WITH CENTRAL OFFICE AND CONTROL ROOM DATA MANAGEMENT AND MAINTENANCE

GREEN CAMPUS INITIATIVES
PLANTATION
POND MANAGEMENT

WE ARE HERE TO WIN

WE ARE HERE TO SUCCEED

WE ARE HERE TO SUSTAIN LIFE

WE ARE ZOOLOGY DEPARTMENT