



CONSTITUENT UNITS

CENTRALISED INSTRUMENTATION LABORATORY

The idea of providing all laboratory equipment under one roof for the use of Post-graduate students and Research workers resulted in creation of the Department of Centralised Instrumentation Laboratory on 1.4.1993. An area of 2225 sq. ft. was transformed into a modern air-conditioned laboratory. Forty-five basic and sophisticated equipment are housed in partitioned cubicles.

Some of the most sophisticated equipment available are as below:

Name of the Equipment	Make	Utility
Microplate Spectrophotometer	Bio-tek	Spectrophotometer can measure the optical density of solutions in microplates in a wide range of wavelength from 200nm to 999nm.
Bio-safety cabinet	Nuair	To work with hazardous materials as per bio safety regulations.
Axioplan II Zeiss Microscope	Zeiss	Examination of slides at bright field, dark field, phase contrast and fluorescence techniques.
Cyostat Microtome	Leica	Preparation of tissue sections for microscopical studies.
Gel Documentation System	UltraLum	This system is useful in analyzing all type of gels like protein, PCR, DNA analysis, blot, Elisa, etc.
Sigma Centrifuge	Sigma	Centrifugation at high speed at refrigerated temperature.
Freeze Dryer	Christ	To remove moisture and dry the sample for long time storage.
Table Top Orbital Shaker	Forma	Constant mixing at a controlled temperature to grow recombinant organisms.
BOD Incubator	Forma	To incubate cultures and other materials under oxygen demand.
Ultrafiltration System	Amicon	Separation of proteins of a particular molecular weight in solution.
Electron Microscope	Philips	Screening of samples for identification of viruses

and ultra-structural cell pathology research.



Gel documentation system



Microplate Spectrophotometer

The Centralised Instrumentation Laboratory serves to save time and space, besides ensuring economy on expenditure. Assistance is rendered not only in the use of the sophisticated equipments but also in offering technical guidance to the users in their observations. Guidance is also given in the field of tissue culture and molecular biology.

ELECTRON MICROSCOPE UNIT: A Computer aided Transmission Electron Microscope was installed in May 2001, to identify a wide variety of viruses in clinical samples for ultra structural studies in the field of biological and biomedical sciences.



Electron Microscope

Researchers from other Institutions also use the facilities of this laboratory on payment of nominal fee.

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