



Laboratories and Equipment

Contents

Depart	tment of Microbiology	3
	PCR (Automated Thermal Cycler)	3
	UV - Visible Spectrophotometer	3
	Cooling Centrifuge	4
	Trinocular Microscope	4
	Laminar Airflow Chamber	5
	Incubator with shaker	5
	Deep Freezer	6
Department of Physics		7
:	Spectrum Photograph	7
	Hall Effect Apparatus	7
	Microprocessor Kit	8
	Guoy Balance	8
	Digital Balance	9
	Fourprobe Apparatus	9
:	Spectrometer1	0
	LDR - Light Dependent Resistor	0
Department of Fashion Technology		.1
	Automatic Computerized Embroidery Machine1	.1
	Cloth tensile strength tester	.1
	Drape meter1	2
	Lea tester	2
	Abrasion tester1	.3
;	Single Yarn Strength tester1	.3
	CAD (Tuko CAD Software)1	4
Depart	tment of Biochemistry1	.4





Cooling centrifuge	14
SDS PAGE	15
UV - Visible Spectrophotometer	15
Flame photometer	16

Affiliated to Bharathidasan University (Nationally Accredited at 'A' Grade by NAAC)



Department of Microbiology

PCR (Automated Thermal Cycler)

Used to rapidly to make millions to billions of copies of specific DNA sample and to diagnose infection.



UV - Visible Spectrophotometer

Analytical instrument used to quantitatively measure the compounds like protein, DNA or RNA, growth of bacterial cells, etc.



Affiliated to Bharathidasan University (Nationally Accredited at 'A' Grade by NAAC)



Cooling Centrifuge

This equipment is used to isolate & separate suspensions. It additionally provides the cooling mechanism to maintain the uniform temperature throughout the practical.



Trinocular Microscope

Bright field / Dark field / phase contrast Lenses Photographic recording during direct visual observation.



Affiliated to Bharathidasan University (Nationally Accredited at 'A' Grade by NAAC)



Laminar Airflow Chamber

Used for transfer of medium & inoculation in a Microorganism free environment



Incubator with shaker

Combination of incubation & shaking functions

It is used in cell culture, fermentation, hybridization, etc. which require a high quality of temperature control & shaking speed.



Affiliated to Bharathidasan University (Nationally Accredited at 'A' Grade by NAAC)



Deep Freezer

It is designed to maintain sub-zero temperature and hence used to preserve and store medical equipment, practical kits, samples, chemicals for a long period of time.



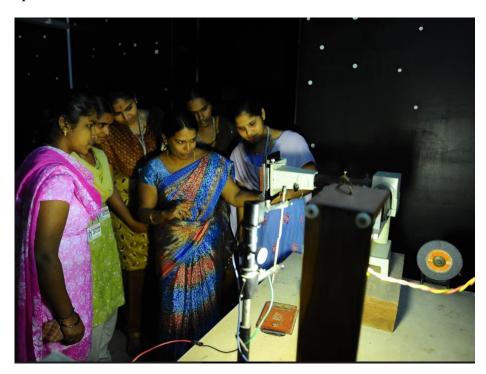
Affiliated to Bharathidasan University (Nationally Accredited at 'A' Grade by NAAC)



Department of Physics

Spectrum Photograph

It is an instrument for dispersing radiation into a spectrum and recording or mapping of the spectrum.



Hall Effect Apparatus

It is used determine the both sign of the charge carriers, (Electron, Holes) and their density in the given sample



Affiliated to Bharathidasan University (Nationally Accredited at 'A' Grade by NAAC)



Microprocessor Kit

The microprocessor is a central unit of a computer system that performs arithmetic and logic operations which generally include adding, subtracting and transforming number from one area to another and comparing two numbers.



Guoy Balance

It measures the apparent change in the mass of the sample and this method measuring the force on the sample by the magnetic field. It determines the magnetic susceptibility.



Affiliated to Bharathidasan University (Nationally Accredited at 'A' Grade by NAAC)



Digital Balance

When a weight is applied digital balance, an electronic circuit generates a current which is then converted into a digital readout on the display



Fourprobe Apparatus

It is used to measure the accurate resistivity of the samples. It overcomes the problem of contact resistance and also offer several other advantages



Affiliated to Bharathidasan University (Nationally Accredited at 'A' Grade by NAAC)



Spectrometer

It is a device for measuring wavelengths of a light over a wide range of the electromagnetic spectrum. It's widely used for spectroscopy analysis of sample materials



LDR - Light Dependent Resistor

Photo resistors also known as Light Dependent Resistor (LDR) are light sensitive devices most often used to indicate the presence or absence of light and to measure the light intensity



Affiliated to Bharathidasan University (Nationally Accredited at 'A' Grade by NAAC)



Department of Fashion Technology

Automatic Computerized Embroidery Machine

This machine is inbuilt with CAD/CAM technology to create embroidery from computerized design on saree, blouse or any garment



Cloth tensile strength tester

This machine determines a wide range of materials in tension, bursting, tear, elongation, constant load and other mechanical properties



Affiliated to Bharathidasan University (Nationally Accredited at 'A' Grade by NAAC)



Drape meter

The instrument has played significant role in providing graceful aesthetic effects in garments



Lea tester

The tester measures the strength of one lea yawn and force necessary to break a material and is measured in pound



Affiliated to Bharathidasan University (Nationally Accredited at 'A' Grade by NAAC)



Abrasion tester

The intent of abrasion tester is to produce data that will reproducibly rank material in their resistance to scratching abrasion under a specific set of conditions



Single Yarn Strength tester

This tester determines the breaking strength and elongation of single cotton, wool and other yarns up to $50\mbox{N}$



Affiliated to Bharathidasan University (Nationally Accredited at 'A' Grade by NAAC)



CAD (Tuko CAD Software)

Fashion CAD pattern making software with advanced functionally & process engineering to empower accurate pattern making & marker planning



Department of Biochemistry

Cooling centrifuge

Provides cooling mechanisms to maintain the uniform temperature throughout the process of separation and isolation of suspensions

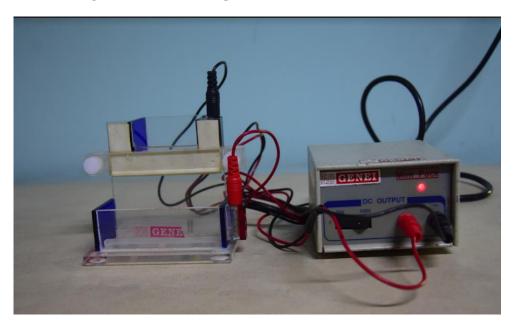


Affiliated to Bharathidasan University (Nationally Accredited at 'A' Grade by NAAC)



SDS PAGE

The SDS Page is used for the separation of macromolecules under an electric field



UV - Visible Spectrophotometer

It is Used for the quantitative analysis of compounds in solution based on the amount of UV/Visible light absorbed by the solution



Affiliated to Bharathidasan University (Nationally Accredited at 'A' Grade by NAAC)



Flame photometer

Used to quantify the concentration of metal ions like sodium, potassium, lithium, calcium and caesium in samples by measuring the emitted light intensity when introduced into the flame

