

Department-wise facilities available

Entomology

Classrooms and Laboratories:

Sl. No.	Name of Section	Number	Space (Sq. ft.)	Specialities
1.	Post graduate Laboratory	1	900	• Multimedia Projector- 1 • Stereo zoom microscope-5 • BOD Incubator- 1 • Refrigerator -2 • Insect rearing cages-5
2.	Insect Toxicology laboratory	1	680	• Potter Spray tower -1 • Micro applicator -1 • Nikon camera and handycam- 1 each • Refrigerator -1 • ZEISS (Stemi 508) microscope
3.	Insect Systematic and Vector Biology Laboratory	1	800 sqft.	• Gel Documentation unit • Refrigerated Centrifuge • PCR Machine • Electrophoresis unit • ELISA reader • Microwave oven • Hot air oven • Double Distillation Unit • Trinocular Stereozoom microscope-Leica MZ 205 • -20° C Deep Freezer • -80° C Deep Freezer

Major Equipments:

Sl. No.	Name of the equipments	No.
1.	Multimedia Projector	02
2.	Stereo zoom microscope	15
3.	Microscope with Electrical connectivity	06
4.	BOD Incubator	01
5.	ZEISS (Stemi 508) microscope	01
6.	Gel Documentation unit	01
7.	Refrigerated Centrifuge	01
8.	PCR Machine	01
9.	Electrophoresis unit	01
10.	ELISA reader	01
11.	Hot air oven	01
12.	-20°C Deep Freezer	01
13.	-80°C Deep Freezer	01

Details of Poly house, shade net, nurseries and dairy unit at College of Agriculture Shivamogga.

Sl. No.	Poly house		Shade net		Nurseries	
	No.	Floor space (Sq. m.)	No.	Floor space (Sq. m.)	No.	Floor space (Sq. m.)
1.	1	31.36	-	-	-	-

Photos

Insect Toxicology lab



Insect Toxicology lab



Insect Taxonomy Lab



Insect Taxonomy Lab



Potter spray tower



Carl Zeiss Microscope



Agricultural Extension Education

Classrooms and Laboratories:

Classrooms

Sl. No.	Class room No.	Area	Seating capacity	Other facilities (LED projector, Computer etc.)
1.	P.G. Class room 01	4.8 x 7.2 m	20	LCD projector, Computer and smart board facility

Laboratories

Sl. No.	Name of the laboratory	Area	Seating capacity (No.)
1.	PG Class room	7.8 x 11.0 m	20
2.	Seminar hall	7.8 x 11.0 m	20
3.	Multimedia hall	7.8 x 11.0 m	20

Major equipment

Multi-media class room facilities available at the Department of Agricultural Extension

Sl. No.	Name of the Equipment	Quantity
1.	6*8 motorized screen	01
2.	15 MSVGA Cable	01
3.	V G A Splitter	01
4.	Ceiling Mount kit	01
5.	LCD Casio Projector	01
6.	Kycero 1800 Digital copier	01
7.	Canon M E D 3010	02
8.	Acer Desktop core 13	02
9.	Lenovo 2030 all in one core 13	01
10.	AHUJA megaphone	04
11.	Lenovo laptop 15	03
12.	Project screen 618 RMM	01
13.	Casio projector	01
14.	Nikon digital camera	01
15.	Epson projector	01

Agronomy

Classrooms and Laboratories:

Details of Classrooms and facilities

Sl. No.	Sections	Number	Space (Sq. ft.)	Facilities
01	Student Study Room	01	140 (Sq. ft.)	Computer-02
02	Seminar hall	01	630 (Sq. ft.)	Computer-01 LCD Projector-01
03	Ph. D. Study room	01	380 (Sq. ft.)	Computer-01 LCD Projector-01
04	Laboratory (PG lab)	01	630 (Sq. ft.)	-

Major Equipments:

Sl. No.	Name of the equipments	No.
1.	Multimedia Projector	01
2.	Stereo zoom microscope	01

List of Major Instruments:

Sl. No.	Instruments	Models
1	Orbital Shaker RPM	Scientek Services (SS0525250)
2	Flame Photometer With Air Regulator	Systronics Flame Photometer -128
3	Spectrophotometer	Systronics Visiscan 167
4	Leaf Area Meter	Systronics Leaf Area Meter
5	Micro pH System	Systronics pH System- 361
6	Nitrogen distillation Unit	Gerhardt Vapodelt distillation Unit

Farm facilities: Totally 4 hectares of land has been alerted to department of Agronomy for UG, PG and Ph. D. students



Students working in the farm for the crop production course

Details of Poly house, shade net, nurseries and dairy unit at College of Agriculture Shivamogga :

Sl. No.	Poly house	
	No.	Floor space (Sq. m.)
1	1	40*40= 1600 Sqm.

Photos



Weighing Balances (Electric)-1 	Weighing Balances (Electric)-2 
Weighing Balances (Electric)-3 	Flame Photometer With Air Regulator 
Electrical Conductivity Meter 	Spectrophotometer 

Genetics and Plant Breeding

6.4.3. Classrooms and Laboratories:

Details of Classrooms and facilities

Sl.No.	Class room No.	Area	Seating capacity	Other facilities (LED projector, Computer etc.)
1.	Seminar hall	19.7 x 36.7 ft	40	LCD projector, Computer and smart board facility

Laboratories:

Sl. No.	Name of Section	Number	Specialties Instruments/ Equipments
1.	Undergraduate class room	1	Undergraduate class room with Smart Board Facility
2.	Under Graduate Lab	1	For Conducting UG Practical Classes (Microscopes etc.,)

3.	Seminar hall	1	LCD projector, Computer and smart board facility
4.	Molecular lab (PG Lab)	1	Extraction of DNA /Biomolecules and molecular biology related work
5.	Computer room	1	For working of PG students
6.	Rice gene bank	1	Collection & display of traditional and released rice varieties.
7.	Breeding cage	1	Crossing work and maintenance of germplasm
8.	Seed storehouse	1	Storage of breeding material and farm equipment

Major Equipments:

Sl. No.	Name of the equipments	No.
1.	2D gradient PCR	01
2.	-80 freezer	01
3.	Autoclave	01
4.	Automated capillary electrophoresis system	01
5.	Binocular Edge microscope	01
6.	Binocular microscope	01
7.	Biological microscope	03
8.	Centrifuge	01
9.	Centrifuge minispun standard motor	01
10.	Computerised seed counter	01
11.	Deep freezer vertical model EFS 430	01
12.	Gel documents unit with Lenovo system	01
13.	Master cycle nexus GX2	01
14.	Master cycler nexus gradient	01
15.	Micro centrifuge	02
16.	Nano Spectrophotometer/Nanodrop	01
17.	Submarine electrophoresis system	01
18.	Table top Refrigerated centrifuge	01
19.	UV spectrophotometer	01 each

Photos

Infrastructure Facilities for PG Teaching and Research:

	
Undergraduate class room with Smart Board Facility	Under Graduate Laboratory facility

	
Seminar Hall with LCD projector	Molecular Biology Laboratory for PG research
	
Computer room	Rice Gene Bank
	
Breeding cage facility for artificial hybridization	Seed storehouse

i) Infrastructure Facilities

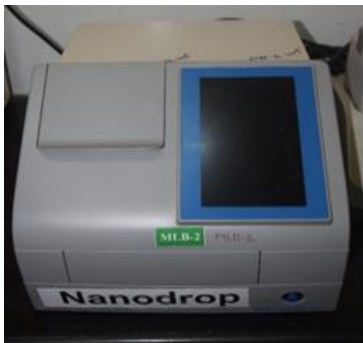
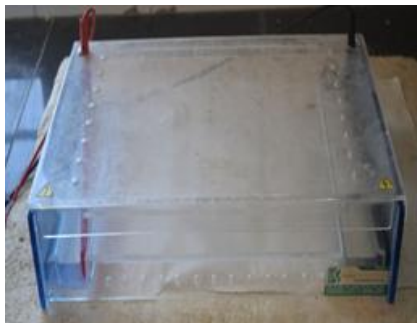
1. Modern Seminar Hall with LCD projector
2. Molecular Biology Laboratory

3. Undergraduate Laboratory facility
4. Undergraduate class room with Smart Board Facility
5. Breeding cage facility for artificial hybridization
6. Field facility for PG students and Staff Research (2 ha)
7. Rice Germplasm Museum
8. Computer Room

ii) Major laboratory Equipment

1. Gradient PCR
2. PCR (2 No.)
3. Automated capillary electrophoresis system
4. Nano Spectrophotometer
5. Refrigerated centrifuge
6. Submarine electrophoresis system
7. Gel documentation unit
8. -80°C Deep freezer
9. UV spectrophotometer
10. Rice grain analyzer system

Molecular biology equipment for PG Research:

		
PCR	Gradient PCR	Refrigerated Centrifuge
		
Nanodrop	Capillary Electrophoresis	Gel Electrophoresis Unit



Gel documentation system



Deep Freezer (-80°C)



Spectrophotometer

Glimpse of PG Students Research Work





Plant Pathology

Classrooms and Laboratories:

Details of Classrooms and facilities

Sl. No.	Sections	Facilities	Sitting capacity
1.	Post Graduate Laboratory	All basic facilities	25
2.	Under Graduate laboratory	All basic facilities	50
3.	Nematology Laboratory	All basic facilities	25
4.	Centre of Excellence for Diagnosis of Plant Diseases and Pests Laboratory	All basic facilities	25

Major equipments

Sl. No.	Name of Section	Number	Space (Sq. ft.)	Specialties
1.	Post Graduate Laboratory	1	20 X20 ft	Stereo zoom microscope-5 Laminar air flow-1 Autoclave-1 BOD Incubator- 1 Deep freezer-1
2.	Under Graduate laboratory	1	20 X20 ft	Laminar air flow-1 Research Microscope-1
3.	Nematology Laboratory	1	20 X20 ft	Olympus research microscope-1 Laminar Airflow-1 Deep freezer-1 Olympus binocular research microscope Oosten brinks elutriator Finwick can apparatus
4.	Centre of Excellence for Diagnosis of Plant Diseases and Pests Laboratory	1	30X 30 ft	Kemi hot air oven Binocular Microscope KEMI AUTOCLAVE (VERTICAL) BOD INCUBATOR Vertical electrophoresis MAGNUS Trinocular Microscope With Camera and Analysis Software Olympus Make “ Upright Microscope Student MicroScope Olympus Make “ Binocular Compound Microscope” Olympus “Binocular Research Microscope Binocular Microscope Olympus Ch 20i Stereoscopic Binocular Microscope (MS-24) Microscope Olympus Make (MLX) Binocular Microscope CH201 Thermal cycler (PCR) Stereo binocular dissection microscope with accessories Binocular upright research microscope

				Phase contrast microscope
				Vertical signage
				Laminar air flow cabinet
				Refrigerated centrifuge
				ELISA reader with accessories
				Horizontal electrophoresis unit with accessories
				UV trans illuminator

Details of Poly house, shade net, nurseries and dairy unit at College of Agriculture Shivamogga

Sl. No.	Poly house		Shade net	
	No.	Floor space (Sq. m.)	No.	Floor space (Sq. m.)
1.	01	30x60 ft	01	-
2.	In Planta house	15x20 ft		-

Photos



Soil Science

Classrooms and Laboratories:

Sl. No.	Class room No.	Area (Sq. Ft.)	Seating capacity	Other facilities (LED projector, Computer etc.)
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1.	P.G. Class room / Seminar Hall	20 x 30 ft.	40	Smart TV facility
2.	P.G. Class room	15 x 20 ft.	25	Desktop computer and LED projector

Laboratories

Sl. No.	Name of the laboratory	Area (Sq. Ft.)	Seating capacity (No.)
1	UG Laboratory	44.5 x 24 ft	20
2	PG Laboratory - 1	29.5 x 20.5 ft	15
3	PG Laboratory - 2	29.5 x 20.5 ft	15
4	REWARD, Soil and Water Testing Laboratory	20.0 x 16.0 ft	15
5	Remote Sensing and GIS laboratory	15.5 x 11.5 ft	10
6	Pesticide Residue Laboratory	26.4 x 18.5 ft	15
7	Referral Soil Testing Laboratory, ZAHRS	26.4 x 18.5 ft	20
8	Soil Testing Laboratory, OFRC	27.50 x 26.5 ft	10

Major equipments

Sl. No.	Name of the Equipment/materials	Quantity
1	GC-MS instrument	01
2	HPLC instrument	01
3	Atomic absorption spectrometer (AAS)	03
4	CHNS analyzer	01
5	Microwave soil and plant digestion unit	02
6	BOD incubator	01
7	- 20 °C Deep freezer	01
8	Digital pH meters with combined electrodes	04
9	Hot water bath	01
10	Horizontal shaker	01
11	Digital flame photometer assembly	02
12	Glass and Quartz single water distillation units	02
13	Digital conductivity meter	03
14	End to End Shaker	04
15	Refrigerators (240 ltrs) for storing water samples	02
16	High speed centrifuge systems (12000 rpm)	02
17	Different types of soil sampling Augers	01 set
18	Double beam Visible Spectrophotometer	01
19	Yoder apparatus (Wet Sieve shaker) for soil aggregate analysis	01 set
20	Kjeldhal digestion and distillation system	02
21	Muffle furnace	01
22	Sand bath with thermostat	02
23	Digital semi-automatic burettes	03
24	GPS meter	01
25	Hot air ovens	03
26	Digital electronic weighing physical balances	04
27	Nitrogen digestion and distillation system	01
28	Rock and mineral sets in display racks	01 set
29	Digital electronic chemical balance	05
30	Mineral sets for streak, hardness, luster, structure	04 sets
31	Handi step pipette set	01
32	Microwave Oven unit	01
33	Digital pipettes variable Type	02
34	Titrate 50 ml with accessories	02

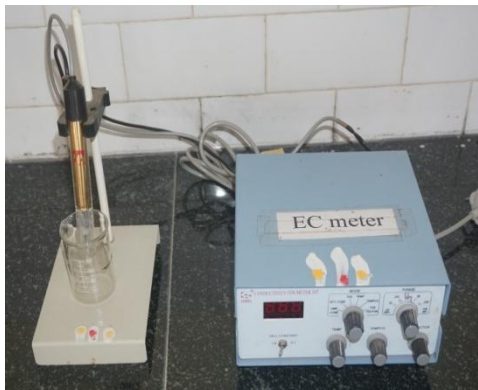
Sl. No.	Name of the Equipment/materials	Quantity
35	Fume hood	02
36	Eppendorf pipette sets	04 sets
37	Eppendorf multi pipette sets	02
38	Water sample storage racks (3 ½ x 3 ft)	08
39	Ultrasonic water bath	01
40	RO water systems for distilled water unit accessories	02
41	Dry vibratory sieve shakers along with sieves sets	01
42	Modular working table with granite slab and storage racks	01 set
43	Plant samples powdering Milling Unit	01
44	Core sampler with heavy duty sample rings	01 Set
45	Hand Penetrometer	01 Set
46	Double Ring Infiltrometer set	01 set

- The rocks and minerals have been displayed in the glass racks/showcase in the laboratory for the benefit of students and farmers.
- The department has also displayed different types of fertilizers, manures, amendments, *etc*, for study purpose.
- Monoliths of major soil groups of this region have been prepared and displayed as pedonarium in the main entrance of the College.

Photos

Laboratory instruments	
Spectrophotometer 	Flame photometer 
Microscope 	Leaf area meter 

EC meter



pH meter



Clavenger apparatus



Soxhlet apparatus



Ultra cryostat unit



Hot water bath

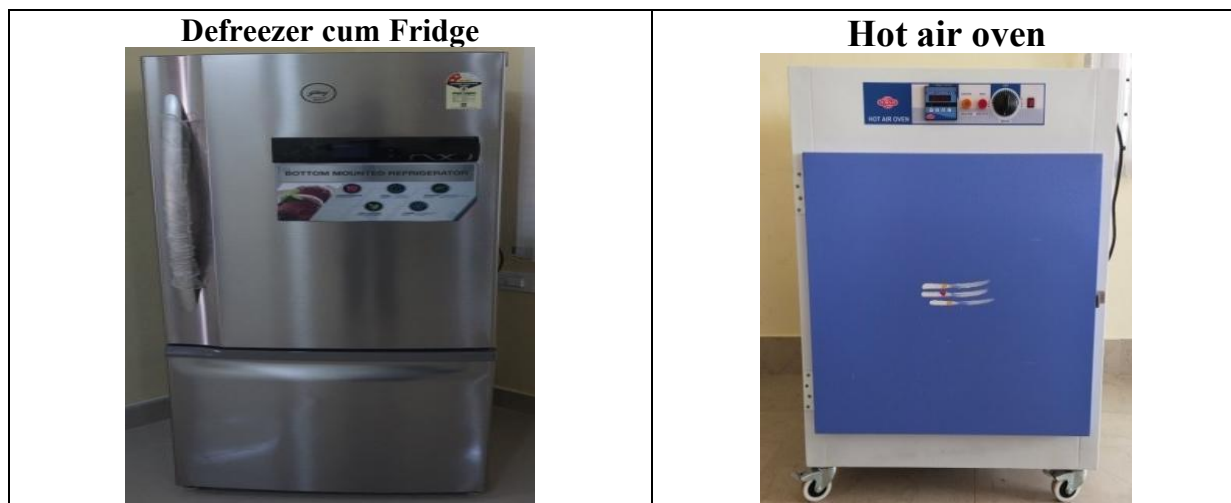


Weighing balance



Weighing balance





Horticulture

Classrooms and Laboratories:

Details of Classrooms and facilities

Sl.No.	Class room No.	Area(Sq.ft.)	Seating capacity	Other facilities (LED projector, Computer etc.)
1.	Seminar hall	40x20	50	LCD projector, Computer and smart TV

Laboratories:

Sl. No.	Name of Section	Number	Space (Sq.ft.)	Specialties Instruments/ Equipments
1.	UG Laboratory	1	26.4 x 11.5	For working of UG students
2.	PG Laboratory	1	26.4 x 24	For working of PG students
3.	Store house	1	24.0 x 16.0	Storage of filed equipment's

Major Equipments:

Sl. No.	Name of the equipments	No.
14.	Hot air oven	02
15.	Mechanical shaker	01
16.	Hot water bath	01
17.	Penetrometer	01
18.	Projector	01

Details of Poly house, shade net, nurseries and dairy unit at College of Agriculture Shivamogga

Sl. No.	Poly house		Shade net		Nurseries		Dairy unit		
	No.	Floor space (Sq. m.)	No.	Floor space (Sq. m.)	No.	Floor space (Sq. m.)	No.	Floor space (Sq. m.)	Capacity
1.	3	1265	1	350	2	1500	-	-	-.

Photos

Horticulture Department  Shivamogga, Karnataka, India XHFM+GF8, Navule, Shivamogga, Karnataka 577216, India Lat 13.973763° Long 75.578885° 22/11/24 10:44 AM GMT +05:30	Horticulture UG Laboratory  Shivamogga, Karnataka, India XHFM+GF8, Navule, Shivamogga, Karnataka 577216, India Lat 13.973369° Long 75.578531° 22/11/24 10:45 AM GMT +05:30
Horticulture PG Laboratory  Shivamogga, Karnataka, India XHFM+GF8, Navule, Shivamogga, Karnataka 577216, India Lat 13.973568° Long 75.578732° 22/11/24 10:45 AM GMT +05:30	PG Seminar Hall with Smart class facilities 
Laboratory 	Smart Classrooms 
Field laboratory facilities 	Field laboratory facilities 
Laboratory instruments	
Spectrophotometer	Flame photometer



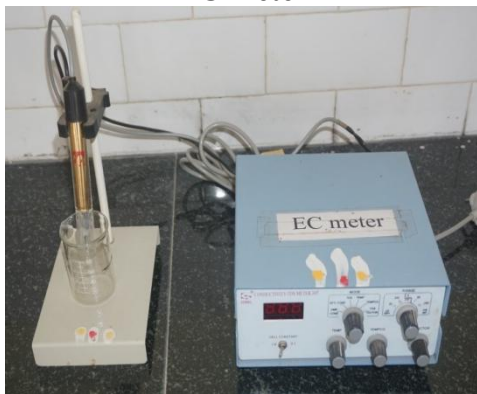
Microscope



Leaf area meter



EC meter



pH meter



Clavenger apparatus



Soxhlet apparatus



Ultra cryostat unit 	Hot water bath 
Weighing balance 	Weighing balance 
Defreezer cum Fridge 	Hot air oven 

Microbiology

Classrooms and Laboratories: Details of Classrooms and facilities

Sl. No.	Sections	Facilities	Sitting capacity
1	Seminar hall	Computer- 01	10
2	PG class room	-	08
3	UG lab	LCD projector- 01	45

4	PG lab	LCD projector (Portable)	08
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Major equipments

Sl. No.	Name of Section	Number	Space (Sq.ft.)	Facilities/ Equipments	Numbers
1.	Post Graduate Laboratory	1	20X15	Stereo zoom microscope Laminar air flow Autoclave BOD Incubator Refrigerator Deep freezer Olympus research microscope	01 02 02 01 02 01 10
2.	General working Lab	3	60X40	Laminar air flow chamber BOD incubator Deep Freezer (-20 ⁰ C) Spectrophotometer Uv transilluminator Microcentrifuge Hot air oven Shaker Horizontal Autoclave Vertical Autoclave Fermentor (50 liter capacity) Microscope Soxhlet apparators	04 03 02 01 2 1 2 1 1 3 1 20 1

Photos



Mushroom production using Areca Husk





Value added products from mushroom



Nutrient composition of Areca husk compost

Parameters	Unit	Areca Husk	Areca Compost
pH	-	6.32	7.27
EC	dSm ⁻¹	1.69	0.11
Total Nitrogen	%	0.64	0.92
Total Phosphorus	%	0.456	0.611
Total Potassium	%	0.83	0.395
Calcium	%	1.82	2.208
Magnesium	%	1.07	1.286
Sulphur	%	0.36	0.174
Iron	ppm	102.36	2568
Manganese	ppm	24.36	779
Zinc	ppm	16.8	261
Copper	ppm	11.32	208
Boron	ppm	0.65	28
Total Organic Carbon	%	26.25	18.672
Inorganic Carbon	%	0.236	0.1100



Department of Seed Science and Technology

Seed Science and Technology  Lab Model Air Screen Cleaner	Lab Model Air Screen Cleaner  Lab Model Gravity Separator
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Lab Model Indent Cylinder separator



Dehumidifier



U V inspection cabinet



Flexible Arm Illuminated Magnifier



Portable Autoclave Vertical



Trans illuminator

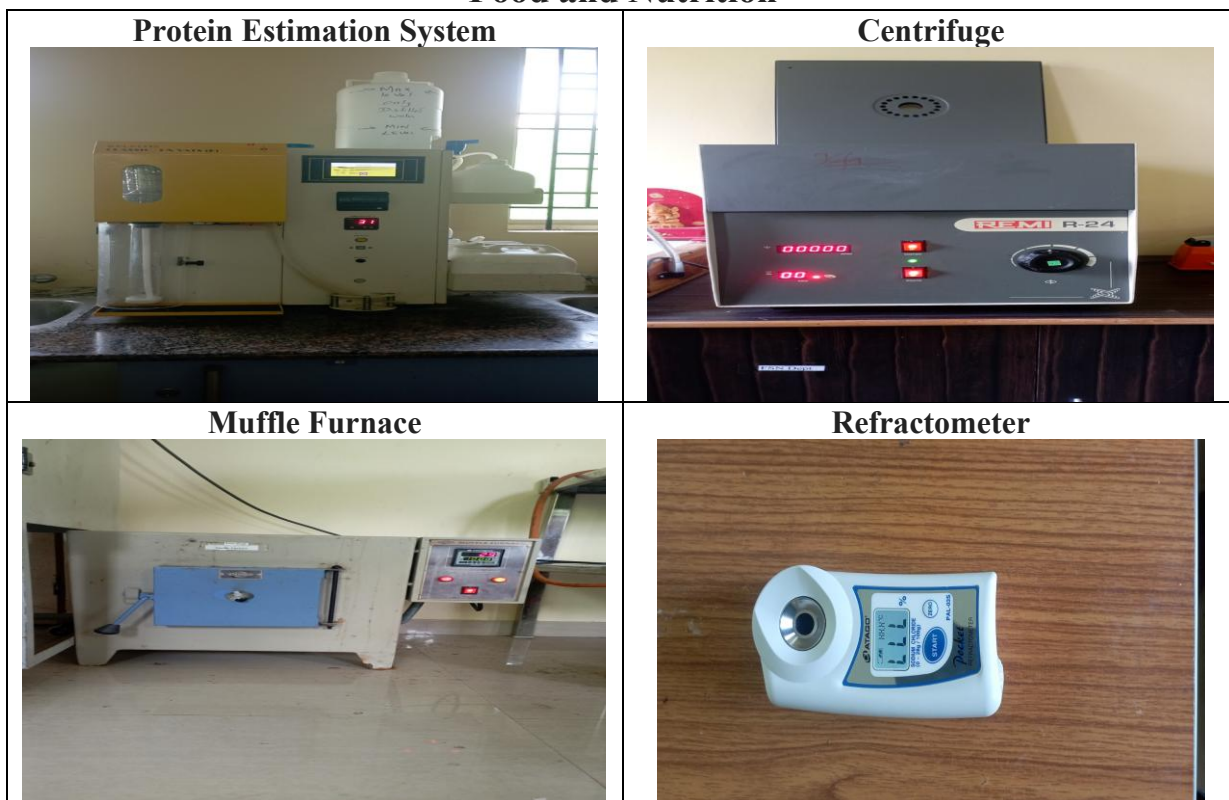


Biochemistry department





Food and Nutrition



Sports and Recreation Facilities

There are two big play grounds located on the campus. Different courts present in each ground are mentioned below.

SI No.	Outdoor Sports facilities	No. Play grounds/ fields	Remarks
01	400 m Standard Track	01	Non raised bordered
02	Long jump pit	01	-
03	High jump pit	01	Cushion Bed
04	Kho-Kho court	02	1 Flood light

			1 Non flood light
05	Volleyball Court	02	-
06	Basketball Court	01	with flood light
07	Ball badminton	01	-
08	Foot ball	01	-
09	Cricket	02	-
10	Throw ball	01	-
11	Kabaddi	02	1 Flood light 1 Non flood light
Multipurpose Indoor hall (Wooden), Following events can be played,			
01	Kabaddi	02	With mat
02	Shuttle Badminton	04	-
03	Tennis	02	-
04	Volley ball	01	-
05	Basket Ball	01	-
06	Throw Ball	01	-
07	Chess	01	-
08	Yoga	01	With mat
09	Ball badminton	01	-

Sports Facilities at the College

Play ground -1

- Two cricket pitches
- One 400 m running track
- Two volley ball courts
- Two kabbaddi courts
- Kho-kho court
- Ball badminton court
- Long jump pit.

Play ground – 2 has a foot ball ground.

Indoor Sports Stadium 	Indoor Sports Stadium 
Sports Ground	
	



Basket Ball Court



Lang Jamp



Cricket

