



Research Facilities

Post Graduate Laboratories and Equipments

Sr. No.	Name of the Laboratory	Equipment	Existing Number	Remarks
1.	Agronomy	Hot Air Oven	2	There are enough facilities for conducting UG and PG practicals and Post Graduate Research.
		Moisture Box	30	
		Moisture Meter	5	
		Tube Auger	10	
		Bucket Auger	10	
		Electric Weighing Balance (50kg)	1	
		Top Pan Balance (1kg)	5	
		Top Pan Balance (2kg)	5	
		Spring Balance (50kg)	5	
		Spring Balance (10kg)	3	
		Seed Germinator	2	
		Conductivity Meter	2	
		pH Meter	2	
		Water Bath	1	
		Shaker	1	
		Chlorophyll Meter	1	
		Drip and Sprinkler System	1,DRIP	
		Sprayer	3	
		Meter Scale	10	
		Tape	5	
Brixmeter	2			
Distillation Water Unit	1			



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Sr.No.	Name of the Laboratory	Equipment	Existing Number	Remarks
2.	Agricultural Economics (including Computer Science Laboratory)	Computers	20	The facilities are enough to fulfill the needs of UG practicals
		Camera	01	
		Software	SPSS	
3.	Agricultural Extension & Communication	LCD Projector	01	The facilities are enough to fulfill the needs of UG practicals
		Camera SLR with Zoom wide angel telephoto lens	01	
		Video Camera with Tripod, lighting accessories and editing faciltiy	01	
		Computers (Work farm) with editing softwares	01	
		Digital Voice Recorders	Recording Studio	
		Audio Recording mixing consoles	01	
		Computation software for statistics	SPSS	



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Sr.No.	Name of the Laboratory	Equipment	Existing Number	Remarks
4.	Entomology	Binocular Microscope	20	The facilities are enough to fulfill the needs of UG practicals
		Insect Box	60	
		Insect Collection Nets	60	
		Collection Bottles	60	
		Insect Collection Big Boxes for Museum (1 for each order)	24	
		Insecticides for showing students/Representative for each group	As per requirement	
		Stereomicroscope	01	
		Electronic Balance	02	
		Soxhlet Extraction Apparatus	Central Facility	
		Bee keeping equipment Set	01	
		Oven	01	
		Sprayers	05	
		Light traps	01	
		Fumigation Chamber	Central Facility	
		Sides/cover slips	250	
		pH meter	01	
		Computer with printer	01	



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Post Graduate Laboratories and Equipments

Sr. No.	Name of the Laboratory	Equipment	Existing Number	Remarks
5.	Genetics and Plant Breeding	Student Microscope	10	This laboratory is well equipped to meet the requirements of UG and PG practicals and Post Graduate Research
		Binocular Microscope	10	
		Binocular Microscope (01+01 Camera interface with Computer System)	01 (Central facility)	
		Electronic Moisture Meter	02	
		Electronic Balance	02	
		Seed Germinator	02	
		Automatic Seed/Grain Counter	01	
		Water Bath System	01	
		Digital Lux Meter	01	
		Deep Freezer (-80 c)	01	
		Deep Freezer (-20 c)	01	
		Freezer (290 ltrs.)	02	
		Metal Free Grinder	01	
		Autoclave	01	
		Ice Crusher	01	



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5.	Genetics and Plant Breeding	Biotechnology		
		Hot Air Oven	01 (Central facility)	
		Fluorescence Microscope	01(Central facility)	
		BOD Incubator	01(Central facility)	
		Centrifuge	03(Central facility)	
		Micro Centrifuge	01(Central facility)	
		Growth Chamber	01 (Central Facility)	
		Distillation Assembly	01 (Central Facility)	



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Post Graduate Laboratories and Equipments

Sr. No.	Name of the Laboratory	Equipment	Existing Number	Remarks
6.	Horticulture A. Labs (Post Harvest)	Hand Refractrometer	03	Sufficient facilities exists to carry out UG and PG practicals and Post Graduate Research
		Oven	2	
		Refrigerator	1	
		Electronic Weighing balance	2	
		pH meter	01	
		Fruit crusher	01	
		Grinding and Mixing machine	01	
		Distillation assembly	Central Facility	
		Solvent Extraction Apparatus (Soxoplus, Pelican)	01	
		Crud fiber estimation unit (Fibroplus, Pelican)	01	



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Post Graduate Laboratories and Equipments

S.No.	Name of the Laboratory	Equipment	Existing Number	Remarks
6	Horticulture A. Labs (Post Harvest)	Food Extruder	01	Sufficient facilities exists to carry out UG and PG practicals and Post Graduate Research
		Planetary Mixer	01	
		Boiler	01	
		Fruit Juice Extractor	01	
		Hydraulic Press	01	
		Fruit Pulper	01	
		Steam jacketed Kettle	01	
		Crown Corking machine	02	
		Work Table	02	
		Weighing balance	01	
Microwave oven	01			



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Post Graduate Laboratories and Equipments

S.No.	Name of the Laboratory	Equipment	Existing Number	Remarks
6. cont.	Horticulture A. Labs (Post Harvest)	Microwave oven	01	
		Gas burner	02	
		Polythene bag sealer	01	
		Spectrophotometer	01	
		Shrink packaging	01	
		Incubator Shaker	01	
		Form, filling, sealing machine	01	
		Noodle, Pasta Machine	01	
		Coating Pan	01	
		Fermentation cabinet	01	
		Baking oven	02	



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Post Graduate Laboratories and Equipments

S.No.	Name of the Laboratory	Equipment	Existing Number	Remarks
6. cont.	Horticulture A. Labs (Post Harvest)	Vacuum packaging machine	01	
		Retort Pouch Machine	01	
		Centrifuge	01	
		Vortex Shaker	01	
		Platform balance (100 Kg cap)	01	



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Post Graduate Laboratories and Equipments

Sr. No.	Name of the Laboratory	Equipment	Existing Number	Remarks
	B. Lab (UG Lab)	Seed Germinator	01	
		Grafting and Budding Knife	40	
		Secateurs	20	
		Saw	04	
		Loppers	01	
		Mist Chamber	Foggers	
		Polyhouse with drip irrigation system	04	
		Microscope	03	
		Shaker	01	
		Digital Vernier Calipers	02	
		Refrigerator	01	
		Oven	01	
		Hand Refractrometer	02	
		Digital Refractrometer	2	



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Post Graduate Laboratories and Equipments

Sr. No.	Name of the Laboratory	Equipment	Existing Number	Remarks
	C. Lab Food Science and Technology	Deep Freezer	01	
		Muffle furnace	01	
		Weighing balance	01	
		Water Bath	02	
		Hot Air Oven	01	
		Cold room	01	
		Vacuum pump	01	
		Lovibond Tintometer	01	
		Micro Kjeldahl Apparatus (Kjeloplus, Pelican)	01	
		Vacuum Oven	01	
		Hot Plate with Magnetic Stirrer	01	
		Vacuum Filtration	01	
		Lyophilizer	01	
		Hot Plate	01	
	Rotary Vacuum Evaporator	01		



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Post Graduate Laboratories and Equipments

Sr. No.	Name of the Laboratory	Equipment	Existing Number	Remarks
7.	Soil Science and Agricultural Chemistry	Electronic Top Pan balance (0.1 g capacity)	02	The laboratory has sufficient facilities to carry out UG practicals
		Electronic Top Pan balance (1 mg capacity)	02	
		Hot air oven	01	
		pH meter	05	
		EC meter	05	
		Flame photometer	01	
		UV-VIS Spectrophotometer Double Beam	01	
		Automatic Kjeldhal Nitrogen/Protein Analyzer	02	
		Rectangular Hot Plate	01	
		Distilled water unit	01	
		Water bath	01	
		Rotary shaker	02	
		Binocular microscope	10	
		BOD incubator	01	
Autoclave	01 +01 (Central Facility)			



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Post Graduate Laboratories and Equipments

Sr. No.	Name of the Laboratory	Equipment	Existing Number	Remarks
7.	Soil Science and Agricultural Chemistry	Microwave oven	01	
		Digestion block	02	
		Hydraulic conductivity meter	01	
		Atterberg's limits meter	05	
		Tensiometer	03	
		Rotary shaker	02	
		Laminar Air Flow	01	
		Mridaparikshak	01	
		Moisture box	28	
		Soil Infiltrometer	02	
		Hydrometer	05	
		Soil sampling tool kit	05	



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Post Graduate Laboratories and Equipments

Sr. No.	Name of the Laboratory	Equipment	Existing Number	Remarks
8.	Agrometeorology	Thermometer Max	05	The laboratory has sufficient facilities to carry out UG practicals
		Thermometer Min	05	
		Wet and Dry Thermometer	05	
		Digital Anemometer	02	
		Cup Anemometer	02	
		Pan Evaporimeter	01	
		Soil Thermometer 05 cm 10 cm 15 cm	05 05 05	



Research Facilities

Post Graduate Laboratories and Equipments

Sr. No.	Name of the Laboratory	Equipment	Existing Number	Remarks
8.	Agrometeorology	Rain Gauge	01	The laboratory has sufficient facilities to carry out UG practicals
		Self recording rain gauge	01	
		Sunshine recorder	01	
		Stevenson's screen	01	
		Thermograph	01	
		Hygrograph	01	
		GPS	05	
		Automatic Weather Station	01	
		Lux Meter	02	
		Solar pyranometer	01	



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Post Graduate Laboratories and Equipments

Sr. No.	Name of the Laboratory	Equipment	Existing Number	Remarks
9.	Plant Pathology	Microscope compound with photo display arrangement	01	Enough facilities exists to fulfill the needs of UG and PG practicals and Post Graduate Research
		Stereo binocular	04	
		Sample processing board (dry preservation of samples)	02	
		Wet preservation jars	50	
		Autoclave	02	
		Oven	02	
		Deep Freezer	01	
		Centrifuge (3000 rpm)	01	
		Refrigerator	01	
		Water bath	01	
		Electronic Balance	02	
		Weighing machine	01	
		Incubator	02	
		Occularmeter	05	
		Stage micrometer	05	
		Camera Lucida	04	
		Mixer Grinder	01	
		Electrophoresis Unit	01	
	Gel Documentation Apparatus	01		
	Microwave Oven	01		
	Micro Pipettes	03		



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Post Graduate Laboratories and Equipments

Sr. No.	Name of the Laboratory	Equipment	Existing Number	Remarks
10.	Animal Sciences	Hand and electric centrifuge	01	The laboratory has sufficient facilities to carry out UG practicals
		Analytical Balance	01	
		Micro Kjeldahl nitrogen digestion and distillation apparatus	Central Facility	
		Soxhlet unit for fat estimation	Central Facility	
		Hot plate, Fiber Tech	Central Facility	
		Vaccum pump	Central Facility	
		Willy mill grinder	Central Facility	
		Platform balance (100 Kg cap)	Central Facility	
		Gerber centrifuge unit (for milk fat testing)	01	
		Milk analyzer automatic	01	



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Post Graduate Laboratories and Equipments

Sr. No.	Name of the Laboratory	Equipment	Existing Number	Remarks
10.	Animal Sciences	Crude fiber estimation unit	Central Facility	
		Distilled water Unit	01	
		Incubator cum hatcher	01	
		Egg candling machine	01	
		Debeaker	01	
		Vaccinator	01	
		Milking machine	01	
		Milking bucket	02	
		Milking can	04	
		Animal and bird identification tools	09	
		Chaff cutter	01	
		Lactometer	01	
		Cattle crate	01	



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Post Graduate Laboratories and Equipments

Sr. No.	Name of the Laboratory	Equipment	Existing Number	Remarks
11.	Agriculture Engineering	Working models of MB plough	02	The equipment are sufficient to conduct UG practicals
		Working model of blade harrow	01	
		Working model of disc harrow	01	
		Working model of disc plough	02	
		Working model of indigenous plough	02	
		Seed drill	01	
		Working model of threshing drums (One set of 3 pieces)	01	
		Working models of reaper	01	
		Working model of mower	01	
		Different types of sprayers and dusters	01 Sprayer, 01 duster	
		Cut model of Compression Ignition Engine and Spark Ignition Engine	01 each	
Cut model of tractor	01			



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Post Graduate Laboratories and Equipments

Sr. No.	Name of the Laboratory	Equipment	Existing Number	Remarks
12.	Bio Chemistry and Crop Physiology	Chromatography unit	01	The equipment are sufficient to conduct UG practicals
		Spectrophotometer	01 (Central Facility)	
		Serological Water Bath	01	
		pH Meter	01	
		Magnetic Stirrer	01	
		Hot Air Oven	01	
		Vortex Shaker	01	
		Precision Balance	01	
		Rotary Shaker	01	
		Monocular Microscope	03	
Binocular Microscope	02			



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Post Graduate Laboratories and Equipments

S. No.	Name of the Laboratory	Equipment	Existing Number	Remarks
13.	Central Laboratory I	Thermocycler with UPS backup	2	The equipment available in this university are sufficient to conduct PG practicals and Post Graduate Research across all Departments of the college.
		Gel Documentation System interfaced with computer system software	1	
		Horizontal Gel Electrophoresis Unit + Electric Supply Unit	3	
		Vertical Gel Electrophoresis Unit + Electric Supply Unit	1	
		UV/Vis Spectrophotometer	1	
		Microwave Oven	1	
		Weighing Balance	1	
		Centrifuge	3	
		Water Bath	1	
		Binocular Microscope	2	
		Microscope with Camera interfaced with Computer system software & stabilizer	1	
		Refrigerator	1	
		Hot Plate	1	
		Hot Air Oven	1	
		Mini Centrifuge	2	
		Hot Air Oven with Stabilizer	1	
		Vortex Mixer	1	
pH meter	2			
Stereo Microscope	1			



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Post Graduate Laboratories and Equipments

Sr. No.	Name of the Laboratory	Equipment	Existing Number	Remarks
13.	Central Laboratory II	Water Distillation assembly having provision for MilliQ water	1	
		BOD incubator	1	
		Inverted Microscope	1	
		Biosafety Cabinet Level II	1	
		Laminar Airflow Bench	1	
		Serological Water Bath	1	
		CO ₂ incubators	3	
		Hot Air Oven	1	
		Fluorescent Microscope	1	
		Hot Plate	1	
		BOD Incubator	1	
		CO ₂ Cylinders	2	

Equipments



Thermo Cycler



Atomic Absorption Spectrophotometer



Bio Safety Cabinet



Spectrophotometer

Equipments



Flourescence Microscope



Tintometer



Crude Fiber Estimation Unit



Soxlet's Apparatus

Various equipment available in the laboratories