

Dr. SRK Govt. Arts College, Yanam
Department of Botany
Laboratory Equipment as on April 2021

Laboratory Resources

Botany Laboratory equipment for conducting UG BSc Botany course practicals are museum specimens, Practical Dissection Materials, Slides, Bio-visual charts, Glassware, experimental apparatus, various kinds of microscopes, Projectors, Chemicals etc.

Summary of existing Botany Lab equipment

S.No.	Name of existing Lab Equipment	Quantity
Museum Specimens		
1.	Algae	36
2.	Fungi	14
3.	Bryophyta	12
4.	Pteridophyta	19
5.	Gymnosperms	17
6.	Angiosperms	50
7.	Glass specimen Jars Small	10
8.	Glass specimen Jars Medium	10
9.	Glass specimen Jars Big	10
Practical Dissection Materials		
10.	Permanent Slides	22 No.s.
11.	Class work Dissection Material	5 Units
12.	Petridish, 100 x 17 mm	10
13.	Watch Glasses 3"	24
14.	Wash Bottles Plastic 500 ml	5
15.	Wash Bottles Plastic 250 ml	5
16.	Plain Slides Blue star	3 packets
17.	Cover Slips, 22 mm Blue star	6 packets
18.	Tissue Paper Rolls, 60 mts	5
19.	1-Cavity Slides Blue star	3

Bio-visual Charts & Film Slides		
20.	Algae	14 & 3
21.	Fungi	08 & 5
22.	Bryophyta	06 & 3
23.	Pteridophyta	06 & 2
24.	Gymnosperms	02 & 6
25.	Angiosperms	22 & 12
26.	Anatomy	04 & 08
27.	Plant Physiology	04 & 02
28.	Cytology and Genetics	14 & 02
29.	Embryology	02 & 04
Herbarium & Field Materials		
30.	Herbarium Press	2
31.	Herbarium Paper Sheets	400 no.s.
32.	Twig cutter 8"	1
34.	Twig cutter 9"	1
35.	Grass Shear	1
36.	Hedge Shear	1
37.	Garden Trowel	1
38.	Weeding Fork	4
39.	Slide Cabinets without Trolley	2
40.	Slide Cabinet with Trolley	1
Microprepared Slides		
41.	Algae	101
42.	Fungi & Bacteria	46
43.	Bryophyta	17
44.	Pteridophyta	43
45.	Gymnosperms	32
46.	Angiosperms- Embryology	27
47.	Cytology	22
48.	Anatomy	66
49.	Histology	24
50.	Cellular Inclusions	18

Film Strips		
51.	Bacteria	1 Role
52.	Angiosperms	10 sets
Models		
53.	DNA	1 set
54.	RNA	1 set
55.	Mechanism of Protein Synthesis	2
Experimental Apparatus		
56.	Microscopes	19 Old 4 New
57.	Dissecting Microscopes	8
58.	Binocular Sterioscope Microscope	2
59.	Projection Microscope	1
60.	Field Microscope	1
61.	Pen Microscope	1
62.	Trinocular Microscope	2
63.	Microtome Rotary	1
64.	PH Metre	1
65.	Autoclave	1
66.	Bacterial Colony Count	1
67.	Balances	3
68.	Camera Lucida	1
69.	Centrifuge	1
70.	Calorimeter Single Cell	1
71.	Conductivity Bridge, Cell and Metre	3
72.	Epidiascope	1
73.	Electric Bunsen with Regulator	1
74.	Herbarium Cabinet	1
75.	Hot Plates	2
76.	Incubator	1
77.	Kettle Element	1
78.	Magnetic Stirrer	1
79.	Film Strip Projector	1

80.	Over head Projector	1
80.	Automatic Slide Projector	1
81.	Multiple Micro Projector	1
82.	Projector's Screen	1
83.	UV Florescent Tube	1
84.	Water Bath	1
85.	Wax Embedding Bath	1
86.	Weight Boxes	2
87.	Vaccum Dessicator	1
88.	Beakers 100 ml, 150 ml, 250 ml, 500 ml, 1000 ml	23
89.	Conical flasks 250 ml, 500 ml	5
90.	Coupling Jars	4
91.	Funnels 2.5 cm, 5 cm, 7.5 cm in diam.	21
92.	Measuring Cylinders 5 ml, 10 ml, 50 ml, 100 ml, 250 ml	12
93.	Volumetric Flaks 100 ml, 250 ml, 500 ml	8
94.	Petridishes 7.5 cm, 8.75 cm in diam.	30 pairs
95.	Burettes and Pippets 5 ml, 10 ml,	4 & 11
96.	Spirit Lamps	5
97.	Thistle Funnel	14
98.	Auxonometer	1
99.	Heliostat & Klinostat	2
100.	Chromatography Tanks	2
101.	TLC Apparatus	1
102.	Will Molts Bubler	4
103.	Photosynthesis apparatus	2
104.	Molls Apparatus	1
105.	Dessicator Cabinet	1
106.	Warburg's Manometer	2
107.	Ganangs Respirometer	1
108.	Respiration Apparatus	12
109.	Petternekofer's Apparatus	1
110.	Belljar with stop	1
111.	Farmers Potometer	3

112.	Ganangs Potometer	2
113.	Osmotic Pressure Apparatus	2
114.	Cork Borer	1 set
115.	Root Pressure Apparatus	1
116.	Specimen Jars 100 ml Empty Screw type	50
117.	Specimen Jars 250 ml Empty Screw type	52
118.	Specimen Jars Knobbed Stopper	5
119.	Specimen Jars Backler Cap	15
120.	Garden Tools- Prunning saw, Garden Rack, Hank fork, Weed Remover	6
121.	Garden Tools- Grass shear, Water cans, Crow Bars	6
122.	Garden Hose Nozzle Hand spray	1
123.	Fixograph Name board	1
124.	Printer- Canon MF 232 W	1
	Chemicals	
125.	Safranine Solution 125 ml	3
126.	Glycerol AR 500 ml	2
127.	Acetone B 500 ml	4
128.	Formaldehyde Solution 500 ml	4
129.	Acetic Acid AR Solution 500 ml	1