

EQUIPMENT REQUIREMENT FOR M.Sc. BOTANY (batch of 20 students)

No	Name of equipment	Quantity
1	Almirah	3
2	Autoclave	1
3	Beaker (various size-50ml, 100ml, 250ml)	45 each
4	Burette	25
5	Camera lucida	1
6	Centrifuge - Refrigerated with fixed angle rotors for 50 ml, 15 ml and 2 ml tubes. Swinging bucket rotor	1
7	Colony counter	2
8	Colorimeter	1
9	Compound microscope (One for each student)	20
10	Desk top centrifuge	1
11	Double Distillation unit	1
12	Electronic balance 3 digit	1
13	Electronic balance 4 digit	1
14	Electrophoresis - horizontal with power pack and accessories	1
15	Electrophoresis - Vertical with power pack and accessories	1
16	Fluorescence microscope	1
17	Haemocytometer	5
18	Heating mantle	2
19	Herbarium cabinet	5
20	Horticultural tools	1 set
21	Hot air oven	1
22	Hot plate	1
23	Laminar airflow	1
24	Laptop / Desktop for Bioinformatics Lab with Projector	15
25	Magnetic Stirrer	1
26	Microbial incubator	1
27	Micrometer	1
28	Micropipette Variable volume (0.2-2 μ L)	1
29	Micropipette Variable volume (100-1000 μ L)	1
30	Micropipette Variable volume (10-100 μ L)	1
31	Micropipette Variable volume (1-10 μ L)	1
32	Micropipette Variable volume (20-200 μ L)	1
33	Micropipette Variable volume (2-20 μ L)	1
34	Microwave oven	1
35	PCR (Gradient)	1
36	Petriplate	200
37	pH meter	1
38	Glass Pipettes (Variable size-0.1, 0.5, 1ml, 5ml, 10ml,20ml)	20 for each size
39	Plankton counting chamber	1
40	Platform shaker 3' X 3' (with clamps to hold 500 ml, 250 ml and 150 ml flasks)	1

41	Refrigerator	2
42	Research Microscope with camera	1
43	Rotary Microtome	1
44	Sledge microtome	1
45	Slide Warmer (Electrical)	1
46	Spectrophotometer	2
47	Test tubes	200
48	Tissue culture lab with Tissue Culture rack and associated facilities including culture tubes and bottles	1
49	Culture tubes and culture bottles	Min 500
50	UV transilluminator	1
51	Vortex mixer	1
52	Water bath (temperature controlled)	1
53	UV/Vis spectrophotometer	1
54	Apparatus for physiology experiments	1set
55	TLC Kit	1
Additional equipment for student projects (Not compulsory)		
1	UV microvolume spectrophotometer (For DNA quantification)	1
2	Microcentrifuge	1
3	Ice flaker machine	1
4	Deep freezer - 20	1
5	BOD incubator	1
6	Incubator shaker (cooling)	1
7	Stereo zoom microscope	1
8	Gel Documentation system	1
9	PCR Realtime	1
10	Sonicator	1
11	Flame photometer	1
12	Cryocan 10 Lit (Liquid nitrogen container)	1
13	Microplate reader	1
14	Microwave oven	1
15	Glass Bead sterilizer	1
16	Protein trans mini blot for Western blotting	1



Dr T S Swapna
Chairman
PG Board of Studies in Botany
University of Kerala