

Detail information of Instruments in Botany laboratory

| Sl No. | Name of the Instruments | Basic Functions | Funded by |
|--------|---|---|--|
| 1. | Microscopes (Compound) #32 | To magnify and resolve fine details of plant cells & tissues. | UGC Fund (#7); rest College Fund |
| 2. | Microscopes (Simple) #20 | --- Do --- | College Fund |
| 3. | Microscopes (Binocular) #1 | --- Do --- | College Fund |
| 4. | Computer (Desktop) #1 | For departmental data storage, e-mail and other official work. | College Fund |
| 5. | Computer (Laptop) #1 | For PowerPoint presentations in classroom and also data storage. | College Fund |
| 6. | Autoclave #2 | For moist heat sterilization in microbiology practicals. | College Fund |
| 7. | Laminar Air flow #1 | To create contaminant free work environment in microbiology practicals. | College Fund |
| 8. | Inoculation Chamber #1 | --- Do --- | College Fund |
| 9. | Incubator #2 | To grow and maintain microbiological cultures | College Fund |
| 10. | Hot air Oven #2 | For dry heat sterilization in microbiology practicals. | College Fund |
| 11. | Water bath #3 | For heating samples at constant temperature. | College Fund |
| 12. | Humidity & Temperature control chamber #1 | To maintain humidity and temperature during growth and germination. | UGC Fund |
| 13. | Microtome #2 | To cut precise tissue sections. | College Fund |
| 14. | Digital pH Meter #1 | To determine pH values of solutions. | UGC Fund |
| 15. | Centrifuge (table top) #2 | To separate substances in solution w.r.t density. | College Fund |
| 16. | Spectrophotometer (vis) #1 | To determine optical density of Biomolecules. | UGC Fund |
| 17. | Colorimeter #3 | To determine optical density of Biomolecules. | College Fund |
| 18. | Digital colony counter #1 | To count bacterial colony from petridishes. | UGC Fund |
| 19. | Paxiscope #1 | To project both transparent and opaque images directly. | College Fund |
| 20. | Water Distillation Plant (Single) #1 | For distillation of water used in practicals. | College Fund |
| 21. | Camera lucida #10 | For magnification and microscopic drawings. | College Fund |
| 22. | Ocular Micrometer #23 | For micrometry measurements. | College Fund |
| 23. | Stage Micrometer #17 | For micrometry measurements. | College Fund |
| 24. | Soxlet Apparatus #1 | For liquid extraction of compounds. | College Fund |

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|-----|--|--|---------------------|
| 25. | Dhona Balance #1 | For weight measurement of chemicals. | College Fund |
| 26. | Pan Balance #2 | --- Do --- | College Fund |
| 27. | Analytical Chainomatic Balance #2 | --- Do --- | College Fund |
| 28. | Digital Balance #2 | --- Do --- | UGC Fund(#2) |
| 29. | Table top Balance #1 | --- Do --- | College Fund |
| 30. | Haemocytometer #3 | For count of cell number and volume | College Fund |
| 31. | Rotary Shaker #1 | For shaking liquid cultures of bacteria. | UGC Fund |
| 32. | Microwave #1 | For heating purpose. | College Fund |
| 33. | Mixer Grinder #1 | For grinding samples. | College Fund |
| 34. | Refrigerator #2 | For storing chemicals, culture media etc. in cold to avoid overgrowth & contamination. | College Fund |
| 35. | Heater #1 | For heating purpose. | College Fund |
| 36. | Printer #1 | For printing documents. | College Fund |
| 37. | Deep Freezer (-20) #1 | For preservation of temperature sensitive media, chemicals and reagents. | College Fund |
| 38. | Turn Table #1 | For sealing of cover slips on slides | College Fund |
| 39. | Micropipette #2 | For accurate and precise pipetting of samples. | College Fund |
| 40. | Hygrometer (wet & dry bulb) #1 | Measuring the relative humidity | College Fund |
| 41. | Six's Max & Min Thermometer #1 | Recording the maximum & minimum temperature of the day | College Fund |
| 42. | Gel Electrophoresis Apparatus with power pack #1 | For size separation of DNA fragments | College Fund |
| 43. | Hot plate | To heat solutions | College Fund |
| 44. | Projector (Epson S-03) #1 | For projection of slides on screen | UGC Fund |
| 45. | Dessicator #2 | Storing of hygroscopic substances | College Fund |
| 46. | Projector Screen #1 | For display of power point slides | College Fund |
| 47. | UV transilluminator | For visualizing DNA bands | College Fund |
| 48. | Magnetic Stirrer | To stirr and mix solutions | College Fund |



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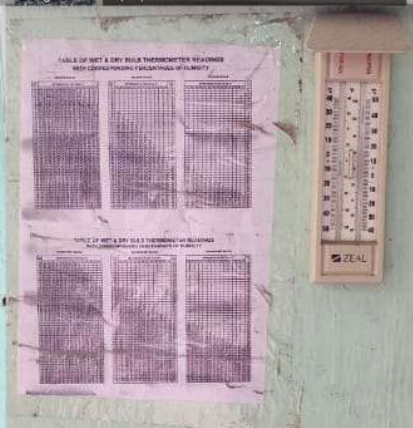
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