VIVEKANANDA COLLEGE

(Residential & Autonomous – A Gurukula Institute of Life – Training)

College with Potential for Excellence

Re-accredited with "A" Grade (CGPA 3.59 out of 4.00) by NAAC

Affiliated to Madurai Kamaraj University, Managed by Sri Ramakrishna Tapovanam, Tirupparaitturai, Trichy

Tiruvedakam West, Madurai District-625 234, Tamil Nadu

DBT STAR COLLEGE SCHEME

Department of Biotechnology, Government of India, New Delhi

Chairman & Principal : Dr. T. Venkatesan, M. Com., B.Ed., M. Phil., PGDCA., Ph.D

Coordinator & Member Secretary : Dr. G. Ponraj, M.Sc., M. Phil., Ph.D

List of Equipments 2021-2022

Sl.No	Name of the Equipments	Purchased equipments	Uses	Beneficiary
1	Colony Counting Chamber	2	Enumeration of microorganisms	III B.Sc., (21)
2	Incubator -Digital	2	Cultivation of microorganisms	III B.Sc., (21)
3	Agarose gel electrophoresis	1	Separation of DNA by size (or) Topology	III B.Sc., (21)
4	Hot air oven	1	Sterilization	III B.Sc., (21)
5	Analytical Balance	1	Weighing the chemicals	III B.Sc., (21)
6	pH Meter	4	Measurement of acidity (or) alkalinity of a liquid	III B.Sc., (21)
7	Colorimeter	2	Determination of the optical density (OD)	III B.Sc., (21)
8	Benchtop Orbital Shaker	1	Uses for the evenly growth of bacteria	III B.Sc., (21)
9	SDS-PAGE Electrophoresis	3	Separation of proteins based on their molecular weight	III B.Sc., (21)
10	Electrophoresis Power Supply	2	Power supply to the electrophoresis	III B.Sc., (21)
11	Senior students Microscope	20	Observations of microorganisms	III B.Sc., (21)
12	Dissection Microscope	5	To study the external features on an object	III B.Sc., (21)
13	Multiparameter Probe	2	To study more than eight parameters in the water samples (Temperature pH, ORP, Conductivity, salinity, TDS, Oxygen and Turbidity)	III B.Sc., (21)
14	Sample Mixture	2	Used for mixing the samples	III B.Sc., (21)
15	Haemocytometer	4	Used to study RBC and WBC	II B.Sc., (26)
16	DNA Double Helix Model	7	Identifications of nitrogenous bases	II B.Sc., (26)
17	Lactometer	3	To determine the quality of milk, thickness of milk (Adulterations)	III B.Sc., (21)
18	Laminar Air Flow Chamber	1	Used in laboratories for contamination sensitive processes like microbial culture	III B.Sc., (21)
19	Top Loading Balance	2	Weighing for more than 3kg	III B.Sc., (21)
20	BMI analyzer	1	To assess the appropriate weight for their age, sex and height	II B.Sc., (26)
21	Digital Camera	1	Research purpose for UG, PG, and Ph.D.	III B.Sc., (21)
22	Milk nutritive value analyzer	1	To determine the quality of milk-Cholesterol, protein, Solid not fat (SNF)	III B.Sc., (21)
23	Computer Node i. N- Computing Vitual desktop,	5	Implementing the program for dissection purpose, research purpose and Data analysis	I B.Sc., (10)
	ii. LED Monitor	5		
	iii. HP USB keyboard&Mouse and	5		
	v. Asus workstation	1		

Fig. 1.Colony Counting Chamber

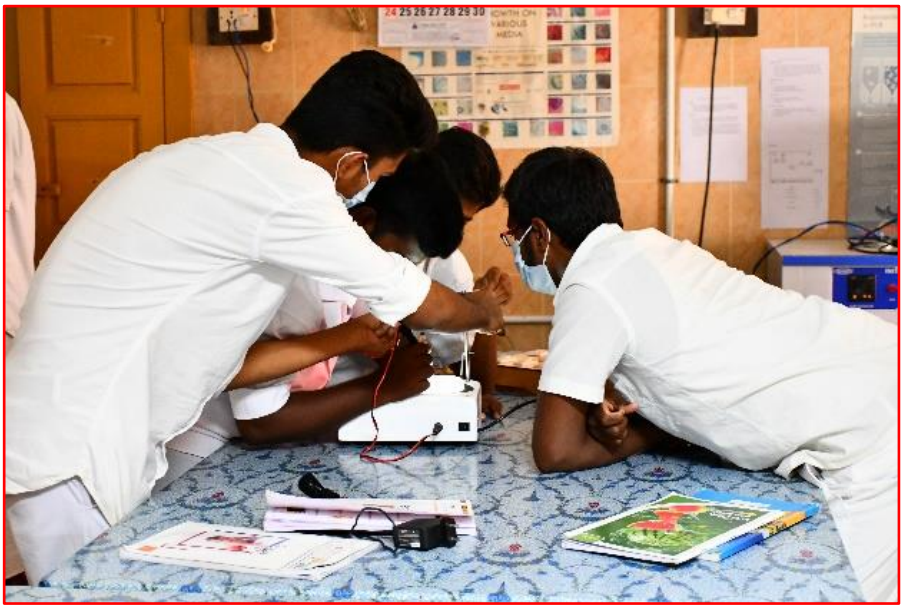

Fig. 2.Colony Counting Chamber

Fig.3. Incubator -Digital

Fig.4. Incubator -Digital

Fig. 5. Agarose gel electrophoresis

Fig.6. Agarose gel with Genomic DNA

Fig. 7. Hot air oven

Fig. 8. Analytical Balance

Fig. 9. pH Meter

Fig. 10 & 11. Colorimeter

Fig. 12 & 13. Benchtop Orbital Shaker


Fig. 14& 15SDS-PAGE Electrophoresis with power supply

Fig. 16. Senior students Microscope

Fig. 17. Dissection Microscope

Fig. 18. Multiparameter Probe

Fig. 19. Sample Mixture

Fig.20. Haemocytometer

Fig. 21. DNA- Double Helix Model

Fig. 22. Lactometer

Fig. 23. Laminar Air Flow Chamber

Fig. 24. Top Loading Balance

Fig. 25. BMI analyzer

Fig. 26. Digital Camera

Fig. 27. Milk nutritive value analyzer

Fig. 28. N- Computing Vitual desktop, LED Monitor, HP USB keyboard, Mouse and Asus workstation