

Vellalar College for Women (Autonomous), Erode -12

Department of Zoology

New Practicals introduced under DBT STAR College Scheme (2019-2022)

S.No	Equipment Purchased	Activities conducted	Beneficiaries
1	Senior Laboratory Microscope and Binocular Microscope	Used by the students individually in Core and Allied practicals to study objects at cellular level, for hematological study, plankton observation, specimen mounting etc.,	III B.Sc., students (38)
2	LCD Projector	Enhanced the ICT enabled learning in the classroom and used to demonstrate the virtual dissections in the laboratory	III B.Sc., students (38)
3	Mini Centrifuge	Used by the students in Core-III, IV and Elective practicals to separate suspended particles in the biological samples.	III B.Sc., students (38)
4	Stop Watch	Used by students individually for Haematological studies	III B.Sc., students (38)
5	Magnetic Stirrer	Used in “Immobilization of cells” practical to get a homogenous liquid mixture.	III B.Sc., students (38)
6	Water Bath	Used for incubation of samples in water at a constant temperature in physiology, biochemistry and microbiology practicals	III B.Sc., students (38)
7	Spectrophotometer	Used for the quantitative analysis of samples in biochemistry practicals individually	III B.Sc., students (38)
8	Binocular	Used by the students during field visit to observe the distant objects clearly	I B.Sc., students (39)
9	Haemocytometer and Haemometer	Used by the students individually for Haematological practicals.	III B.Sc., students (38)
10	Digital Camera	Used by the students during field visit, training programmes, project work etc., for documentation purpose.	I B.Sc., students (39)
11	Water Analyzer	Used for water sample analysis during class practicals / group project	III B.Sc., students (38)
12	Thin Layer Chromatography	Used to identify the components of samples during project	III B.Sc., students (38)
13	Paper Chromatography	Used individually by the students in biochemical analysis	III B.Sc., students (38)
14	Briquette Machine	Biomass briquettes were prepared from the green waste and other organic materials by the students	III B.Sc., students (38)

15	Biological Models	These are helpful pedagogical tools for representing ideas and explanation in the classroom	III B.Sc., students (38)
16	Virtual Dissection / Physiology Software	It is a virtual device, alternate for real specimens. These learning resources play an important role in enhancing the student understanding in the laboratory	I B.Sc., students (39) I B.Sc., Botany students (38) II B.Sc., students (37)
17	Deep Freezer	Used to store the testing kits and biological specimens under controlled temperature for long duration.	III B.Sc., students (38)
18	Electrophoresis with UV transilluminator	Used to separate and to view the biological components in the Core practical/ Project	III B.Sc., students (38)
19	Soil pH meter and Thermometer	Used to measure the pH and temperature of different soil samples in microbiological practicals.	III B.Sc., students (38)
20	Fold Scope	Used by the students individually during field visit for “on the spot” analysis of planktons, microbes, insect larvae etc.,	I B.Sc., students (39)
21	Silk Reeling Eprouvette	Used by the students to learn silk reeling process	III B.Sc., students (38)