

Practical Experiments

Year	Name of Practical	Instrument used
2020-21	BIRD WATCHING PROGRAMMES INSIDE THE CAMPUS	Binocular
2020-21	<ol style="list-style-type: none"> 1. Qualitative analysis of Marine plankton 2. Isolation of DNA 3. Aminoacid content of fish 4. Simple staining 	Centrifuge
2020-21	<ol style="list-style-type: none"> 1. Qualitative analysis of Marine plankton 2. Estimation of total WBC Count in man 3. Differential count of human WBC 4. Study of the developmental stages of chick embryo 5. Bacterial staining technique 6. Gram staining 7. Temporary mount of buccal epithelial cells to observe Barr body 8. Study of the polytene chromosome of <i>Drosophila melanogaster</i> using salivary gland cells of 3rd instar larva 	Binocular Compound Microscope with Inbuilt LED Light
2021-22	<ol style="list-style-type: none"> 1. Estimation of haemoglobin by Sahli's method 	Sahli's haemoglobinometer
2021-22	<ol style="list-style-type: none"> 1. Estimation of Protein - Biurette Method 2. Methylene blue reduction test for assessing the quality of raw milk (Demonstration). 3. Estimation of Dissolved nitrate in the water sample 4. Estimation of Phosphate in the water sample 	Photo colorimeter
2021-22	<ol style="list-style-type: none"> 1. Estimation of protein by Lowry's method 2. Study of meiosis in Grasshopper testis 3. Estimation of the concentration of KMnO₄ 4. Simple staining 5. Negative staining 6. Gram staining 	Micropipette
2021-22	<ol style="list-style-type: none"> 1. Preparations of reagents for Lowry's method 2. Preparation of different media for bacterial growth 3. Estimation of dissolved O₂ in water sample using Winkler's method 4. Estimation of dissolved CO₂ in pond and tap water 5. Estimation of total hardness of water 6. Negative staining 7. Gram staining 	Electronic balance
2021-22	<ol style="list-style-type: none"> 1. ELISA (methodology of detection of biomolecules) 	ELISA Kit
2022-23	<ol style="list-style-type: none"> 1. Enumeration of total RBC Count in man 	Double Distillation

	<ol style="list-style-type: none"> 2. Estimation of total WBC Count in man 3. Differential count of human WBC 4. Preparation of salivary gland polytene chromosome from <i>Drosophila</i> larva 5. Study of meiosis in Grasshopper testis 	Unit
2022-23	<ol style="list-style-type: none"> 1. Gram staining 2. Temporary mount of buccal epithelial cells to observe Barr body 3. Study of the polytene chromosome of <i>Drosophila melanogaster</i> using salivary gland cells of 3rd instar larva 4. Preparation of permanent whole mount 5. Study of different stages of meiosis in grass hopper testes 	Microscope

New Practicals added

Year	Name of Practical	Instrument used
2020-21	<ol style="list-style-type: none"> 1. Negative staining 2. Gram staining 3. Bacteriological analysis of water 	Centrifuge
2020-21	<ol style="list-style-type: none"> 1. Preparation of permanent whole mount 2. Study of different stages of meiosis in grass hopper testes 	Binocular Compound Microscope with Inbuilt LED Light
2021-22	<ol style="list-style-type: none"> 1. Determination of concentration of unknown solutions using Photo electric colorimeter 2. Effect of different temperatures on human salivary amylase 3. Estimation of protein by Lowry's method 	Photo colorimeter
2021-22	<ol style="list-style-type: none"> 1. Preparations of reagents for Lowry's method 2. Preparation of different media for bacterial growth 3. Estimation of dissolved O₂ in water sample using Winkler's method 4. Estimation of dissolved CO₂ in pond and tap water (Major). 5. Estimation of total hardness of water 6. Negative staining 7. Gram staining 	Electronic balance
2022-23	<ol style="list-style-type: none"> 1. Simple staining 2. Negative staining 3. Gram staining 4. Preparation of different media for bacterial growth 5. Preparation of whole mounts 	Double Distillation Unit
2022-23	<ol style="list-style-type: none"> 1. Qualitative analysis of Marine plankton 2. Estimation of total WBC Count in man 3. Differential count of human WBC 4. Study of the developmental stages of chick embryo 5. Bacterial staining technique 	Microscope

