

Industrial Biotechnology Training
Biochemistry (Standard)
Session 2021-2022

Module Content
Introductory Lecture - Demonstration of Instruments, Laboratory mathematics, Good Laboratory Practices and Safe Handling of Biomedical Waste
Solution Preparation – Normal, Molar and Percent Solution – 1 Day
Qualitative determination of carbohydrates, proteins and lipids – 1 Day
To learn the UV-Vis Spectrophotometer technique by Validating the Lambert and Beer law and preparation of BSA Protein Standard curve – 1 Day
Clinical Biochemistry – 2 Days Determination the total Cholesterol in human Blood serum Separation of serum and plasma from blood Isolation of Serum Protein by Salting out Method
Plant Biochemistry – 4 Days Preparation of plant extracts using Soxhlet Extraction system Determination of sugar content in plant sample Quantitative estimation of total protein in plant sample Quantitative estimation of phenolic content in plant sample
Protein profiling by SDS- PAGE - 2 Days
Viva and Presentation – 1 Day
Total 12 Days