

ADVANCED BIOCHEMICAL TECHNIQUES (15 Days)

- ❖ General, safety instructions & Good laboratory practices of lab.
- ❖ Principle and handling of biochemical equipments
- ❖ Basics of calculations, weighing and measurements.
- ❖ Preparation of reagents and standard solutions.

CARBOHYDRATES

- Extraction of crude carbohydrate
- Qualitative analysis of carbohydrate
- Estimation of total carbohydrate by Anthrone method
- Estimation of total carbohydrate by Phenol sulphuric acid method

PROTEIN

- Isolation of crude protein
- Protein precipitation
- Qualitative analysis of protein
- Estimation of total protein by Lowry's method
- Estimation of total protein by Bradford method
- SDS-PAGE GEL electrophoresis
- Western Blotting

LIPIDS

- Extraction of Total lipid
- Estimation of total lipid

NUCLEIC ACIDS

- Extraction of DNA & RNA
- Estimation of DNA by DPA method
- Estimation of RNA by Orcinol method
- Agarose gel electrophoresis
- Southern & Northern Blotting

AMINOACIDS

- Extraction of amino acids
- Estimation of Amino acids by Ninhydrin method
- Thin Layer Chromatography
- Paper chromatography

