**Biochemistry & Molecular Biology (BIC. 211)**

**Overall aims of the Course:**

Understanding the biochemistry of naturally occurring biomolecules including proteins, nucleic acids, carbohydrates, lipids and other bioactive molecules. Mastering the basic scientific tools used to isolate and characterize these biomolecules is a key stone in understanding their building blocks monomers and polymers structure and other properties that fulfill their functions.

**Course contents:**

* Molecular structure of carbohydrates
* General laboratory instructions and biosafety
* Solutions and specimens for biochemical studies.
* Molecular structure of proteins.
* Buffer and pH
* Separation techniques.
* Molecular structure of nucleic acids.
* Molecular structure of lipids
* Principle of spectorphotometry.
* Molecular structure of Vitamins.
* Determination of protein.
* Determination of glucose
* Enzymes
* Enzyme assay
* Hormones