**Metabolism & Body Fluids (BIC. 221)**

**Overall aims of the Course:**

Understanding the Metabolism (building and degradation) of naturally occurring bio-molecules e.g. proteins, nucleic acids, carbohydrates, lipids and other bioactive molecules. Understanding the regulation kinetics, localization and inter and/or intra molecular interactions of these bio-molecules and their impact to other disciplines related to Veterinary field. Understanding the basic scientific tools used to study binding kinetics and reaction rates between these bio-molecules.

**Course contents:**

* Biological oxidation
* Extinction coefficient
* Carbohydrate metabolism
* Glucose standard curve
* Determination of blood glucose level.
* Lipid metabolism
* Determination of triglycerides level and cholesterol.
* Determination of urea and uric acid.
* Protein and nucleic acids metabolism
* Determination of serum protein level.
* Protein standard curve.
* Body fluids
* Separating Technique
* Urine analysis
* Putrefaction and detoxification
* Mineral metabolism
* Comparative metabolism