**Clinical Pathology (CPA. 414)**

**Overall aims of the Course:**

1- Understanding the use of routine and modern laboratory techniques performed on blood, serum, tissues, tissue fluids, milk, feces and urine for the purpose of diagnosis, differential diagnosis and prognosis of animal diseases.

2- Interpretation of alterations detected in the laboratory data based on the reference values in different animals and pathophysiological changes in body organs.

**Course contents:**

* Erythrocyte kinetics and disorders
* Red cell indices
* Anemia acc. to BM responses
* Morphological anemia
* Hemorrhagic anemia
* Etiological anemia
* Polycythemia
* Leukocyte disorders
* Leukocytosis
* leukemia
* Leukopenia
* Coagulopathies
* Platelet disorder
* Clinical enzymology
* Disturbance in protein
* Metabolism
* Disturbance in Glucose metabolism
* Lipogram
* Disturbance in urea and creatinine metabolism
* Disturbance in electrolytes and minerals metabolism
* Bilirubinogram
* Diagnoastic cytology