**General Pathology (PAT. 223)**

**Overall aims of the Course:**

1. Familiarize students with the essential Pathological aspects and their underlying mechanisms.
2. Produce the scholars with data regarding definition, causes, and mechanisms of pathological alterations development.
3. Provide the student with the knowledge, and skills that enable him/her to identify, analyze, and describe tissue alterations and practicing to differentiate between different types of tissue changes through macroscopic & microscopic examination in order to provide an efficient diagnosis.
4. Develop the students’ skills that enable him/her to correlate between specific alterations with definite cause.

By the end of the course the student should be able to

1. Define the different concepts of the abnormalities in structure and function of the different topics learned.
2. Realize the causes, pathogenesis, and the fate of different lesions that affecting the animal body.
3. Develop an accurate description to lesions either grossly or microscopically, and compare between species differences in response to disease processes.
4. Develop a working vocabulary of pathology -related terms and use it in a correct manner.
5. Make use library facilities and its tools efficiently and explore high proficiency in computer/keyboard skills.

**Course contents:**

* Disturbances of circulation
* Inflammation (introduction)
* Inflammation (classification)
* Inflammation (acute Inflammation)
* Inflammation (chronic inflammation)
* Healing and Repair
* Immunopathology
* Disturbances of protein metabolism
* Disturbances of protein, fat and mineral metabolism
* Disturbances of exogenous and endogenous pigmentation
* Icterus (Classification & Pathogenesis)
* Necrosis (Classification & Pathogenesis)
* Gangrene
* Disturbances of cell growth
* Disturbances of cell growth and precarcinogenesis
* Oncology (Introduction & causes of tumors)
* Oncology (classifications & spreading of tumors)
* Benign Tumors
* Malignant tumors
* Tumor like malformations and anaplastic changes