**Y E A R : T H I R D**

S U B J E C T : P A T H O L O G Yعلم الامراض

**Theoretical hours: 3**

**Practical hours: 3**

**Units: 9**

**First & SECOND SEMESTERS**

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| **PATHOLOGY: THEORETICAL SUBJECTS** | **HOURS** |
| Introduction | **1** |
| Degenerative changes and Necrosis / Acute Cellular  Degeneration/ Gout Degeneration and Gangrenous necrosis  (Gangrene types). | **8** |
| Disturbance of Pigmentation ( Jaundice/ Types and causes and  formation of hemosidren, melanin, and calcification/ types and causes) | **3** |
| Disturbance of growth ( atrophy, hyperatrophy, hyperplasia,  hyoplasia, metaplsia, aplasia, congential anomlies) | **3** |
| Disturbance of Circulation (Congestion and hemorrhage/ types  and causes, thrombus and emboli: types and causes, infarction, embolism, edema / types and causes) | **6** |
| Inflammation (definition, causes, types of inflammatory cells,  types of inflammation) | **8** |
| Healing and repair | **2** |
| Inmmunopathology | **6** |
| Tumors (definition/ theories of origin, classification/  differentiation between benign and malignant tumors/  histological characters of tumors/ method of transmission) | **8** |
| Diseases of respiratory system/ Upper respiratory tract/ Lung/  Pleura | **6** |
| Diseases of Cardiovascular system (Epicardium, Myocardium,  Pericardium, Diseases of blood and lymph vessels) | **5** |
| Diseases of haemopoetic and lymphatic tissues ( Lymphatic  nods, spleen, thymus) | **3** |

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| **PATHOLOGY: THEORETICAL SUBJECTS** | **HOURS** |
| Diseases of digestive system (diseases of mouth, cum, tongue,  pharynx and esophagus/ diseases of Rumen and stomach/ Diseases of intestine/ disease of liver and pancreas) | **8** |
| Disease of urinary system ( Diseases of kidney, Urethras, Urinary  bladder) | **4** |
| Disease of Male genital system (testis, epididmyus, Urethra,  Penis, Prostate)  Disease of female genital system (Ovary, Oviduct, Uterus and  Cervix, Vagina and valve) | **3** |
| Diseases of Muscol- Skeletal system | **4** |
| Diseases of Nervous system (Manning, Brain, Spinal cord) | **3** |
| Disease of Endocrine | **3** |
| Diseases of skin and accessory | **3** |
| Diseases of eye and special organ | **3** |
| **Total** | **90** |

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| **PATHOLOGY: PRACTICAL SUBJECTS** | **HOURS** |
| Solutions and fluids used in fixation and preservation of tissue  samples used as preservative samples. | **3** |
| Methods of processing and preparation of tissue for  microscopically examination . | **3** |
| Methods of embedding and preparation of tissue blocks. | **3** |
| Methods of cryostat for frozen sections. | **6** |
| Methods of reaction and special tissue stains. | **3** |
| Frozen section microtome for pathological detection of fat and  enzymes. | **6** |
| Practical training in examination and diagnosis of many  pathological conditions as histological section, lintin slides, digital photos and fixed samples (gallery samples) . | **6** |
| Histopathological practice for examining of upper respiratory  tract . | **6** |
| Histological section and fixed gross samples of endocarditis and  myocarditis and pericarditis caused by bacteria and parasites. | **6** |

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| **PATHOLOGY: PRACTICAL SUBJECTS** | **HOURS** |
| Pathological affections of aorta and other blood vessels (gross  and histopathological section) | **6** |
| Pathological affection of digestive system including gingivitis and  other mucosal epithelial affection (foot and mouth diseases, and wooden tongue). | **6** |
| Gastroenteritis, parasitic affection of stomach, intestinal  obstruction, coccidiosis (gross and histopathological practice). | **6** |
| Liver necrosis, liver cirrhosis, abscess, parasitic infection of liver  and bile duct and gill bladder. Microscopic slides of pathological  infection of kidney urethras and urinary bladder. Hematueria in farm animals. | **6** |
| Microscopic slides of metritis and salphangitis, supportive  metritis and mastitis | **6** |
| Microscopic slides of male and female genital system, testis and  urinary tract | **6** |
| Microscopic slides of bone infection, and cartridge, joints,  osteomalaysia, vitamin D deficiency, skin infection, myocytic and parasitic infection of skin. | **6** |
| Microscopic slides from general diseases cases. | **6** |
| Final Examination. | **1** |
| **Total** | **90** |