

Subject Title:	PATHOLOGY
Subject Code:	1PT1010201
Year	Second Year
Pre-requisite:	-NONE-

Objectives:

At the end of the course the candidate will be able to:

1. Acquire the knowledge of concepts of cell injury and changes produced thereby in different tissues and organs; capacity of the body in healing process.
2. Recall the etio-pathogenesis, the pathological effects and the clinical-pathological correlation of common infection and non-infectious disease.
3. Acquire the knowledge of concepts of neoplasia with reference to the etiology, gross and microscopic features, diagnosis and prognosis in different tissues and organs of the body.
4. Correlate normal and altered morphology of different organ systems in different diseases needed to understand the disease process and their clinical significance (with special emphasis to neuro-musculo skeletal and cardiovascular – respiratory system).
5. Acquire knowledge of common immunological disorders and their resultant effects on the human body.
6. Understand in brief, about the hematological diseases and investigations necessary to diagnose them and determine their prognosis.

Teaching Scheme (Hours)			Evaluation Scheme (Marks)					
Lecture	Practical	Total	Theory(T)		Practical(P)		Total Marks	
			University Assessment	Continuous Assessment	University Assessment	Continuous Assessment	Theory	Practical
50	-	50	40	10	-	-	50	-

Subject Contents			
Sr. No.	Topic	Total Hours	Weight (%)
General Pathology:			
1	Introduction: Aims and objects of study of pathology, definitions of health, disease, causes of disease, methods of study of disease.		
2	Inflammation – General morphology, types, phenomenon of acute inflammation.		
3	Tissue repair – Wound healing, fracture, skin, nerves, muscles		
4	Cell Injury – Degeneration, physical and chemical irritants, ionizing radiations, cellulites.		
5	Disturbance of circulation – edema, thrombosis, infarction, embolism		
6	Necrosis, Gangrene		
7	Growth and its disorders – atrophy and hypertrophy (pseudo).		

8	Cellular ageing		
9	Tumors – definitions, classification, characteristics of benign and malignant tumors, etiology and spread of tumors, systemic effects.		
10	Infection – Acute, chronic, including AIDS.		
11	Blood-Anemia, definition, classification, etiology, lab investigations, blood picture; Hemorrhagic disorders – causes and classification (hemophilia)		
12	Immunity and Hypersensitivity		
Systemic Pathology: (Each condition in this section is to be taught under the specific headings of Causes, Development, Gross and Microscopic only).			
1	Respiratory System: Pneumonia, Bronchitis, Bronchiectasis, Asthma, Emphysema, Tuberculosis and Carcinoma of Lungs Occupational Lung Diseases		
2	Cardiovascular System: Rheumatic Heart diseases, Myocardial infarction, Atherosclerosis and other disease of blood vessels – TAO, Buerger's diseases, Thrombophlebitis, Congenital Heart diseases,		
3	Alimentary System: Peptic Ulcer, Ulcerative lesions of intestine		
4	Liver: Hepatitis, Cirrhosis		
5	CNS: Meningitis, Encephalitis, Cerebral Hemorrhage, CVA, Brief outline of CNS Tumors		
6	Peripheral Nerves: Neuritis, Neuralgia, GBS, Neuropathies.		
7	Bones and Joints: Osteomyelitis, Osteoarthritis, Septic, Arthritis, Gout, Osteomalacia, Bone Tumors briefly-Giant Cell tumor, Osteosarcoma, Ewing's		
8	Muscles: Disorder of muscles including Poliomyelitis and Myopathies, Volkmann's Ischaemic contracture		
9	Skin: Scleroderma, Psoriasis, Autoimmune disorders		
10	Urinary System: Nephritis, Glomerular Nephritis, Nephrotic Syndrome		
11	Endocrine System: Thyroid – Thyroiditis and Thyroid tumors, Diabetes		
Total Hours		50	