

COURSE	FACULTY OF PHYSIOTHERAPY
PROGRAM	BACHELOR OF PHYSIOTHERAPY
SEMESTER	2
COURSE TITLE	PATHOLOGY
COURSE CODE	17PT0201
COURSE CREDITS	4

Course Outcomes: After completion of this course, student 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 clinico-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 for understanding disease process and their clinical significance (with special emphasis to Neuro-Musculoskeletal and Cardio Vascular -Respiratory systems)
- 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.

Pre-requisite of course: Acquire the knowledge of concepts of cell injury and changes produced thereby in different tissues and organs; capacity of the body in healing process

Teaching and Examination Scheme

Theory Hours	Tutorial Hours	Practical Hours	ESE	IA	CSE	Viva	Term Work
80	0	0	25	15	10	0	0

Contents : Unit	Topics	Contact Hours
1	General Pathology Importance of pathology in physiotherapy, Definition of health, pathological basis of health, disease, Inflammation: general aspects, types, Tissue repair: wound healing, fracture, Cell injury-degeneration: physical and chemical irritants; ionizing radiations – cellulitis, Disturbances of circulation: edema, thrombosis, embolism, Necrosis, gangrene, Growth cellular adaptation: atrophy, hypertrophy, hyperplasia, Cellular ageing, Tumors: definitions, classification, etiology and spread, Infection: acute/chronic, AIDS, Blood: anaemia, definition, classification, etiology, laboratory investigations ,blood picture, hemorrhagic disorders(causes and classification), Auto immune disorders: RA, SLE	15
2	Systemic pathology- Respiratory system	5

	Bronchitis, bronchial asthma, emphysema, pneumonia, Ca of lung	
3	Systemic pathology-Cardiovascular system Rheumatic heart disease, myocardial infarction, atherosclerosis, congenital heart diseases	5
4	Alimentary system TB intestine, peptic ulcer	5
5	Liver Hepatitis, cirrhosis	5
6	Central nervous system Meningitis, encephalitis, cerebral hemorrhage, CNS tumor	5
7	Peripheral nerves Neuritis, neuralgia, GB syndrome, neuropathies	5
8	Bones and joints Osteomyelitis, osteoarthritis, septic arthritis, gout arthritis, osteomalacia, Bone tumors - giant cell tumor, osteosarcoma, Ewing's	10
9	Muscle & neuro-muscular disorders Muscle disorders including poliomyelitis, myopathies and myasthenia gravis	10
10	Skin Scleroderma, psoriasis	5
11	Urinary system Nephritis, glomerulonephritis, nephrotic syndrome	5
12	Endocrine system Thyroid: thyroiditis, thyroid tumors, diabetes	5
Total Hours		

References:

Textbooks:

1. Textbook of pathology – Harsh Mohan
2. General Pathology - Bhende
3. General Pathology review - Dr M L Gupta (2nd Ed.)
4. Textbook of Pathology - Dr Dutta

Reference books:

1. Pathologic basis of disease - Cortran, Kumar, Robbins
 2. General and systemic pathology - JCE, Underwood
 3. Pathology - Boyd
- Pathology – Anderson