

Course Title	PATHOLOGY
Course Code	PT301
Course Credit	Lecture: 4
	Practical/Clinical Training: 0
	Total: 4

Course Objective

- On completion of unit students should be able to
1. understand the pathological manifestation of various system of human body
 2. understand concepts of inflammation and healing
 3. relate knowledge of pathology with patient population

Detailed Syllabus

Sr. No.	Name of chapter & Details	Hours Allotted
	Section - I	
1.	INTRODUCTION OF PATHOLOGY FOR PHYSIOTHERAPY.	1
	CELL INJURY AND CELLULAR ADAPTATIONS	
	Define cell, Pathogenesis of cell injury, Morphology of reversible and irreversible cell injury.	2
	Cellular adaptations	1
	Cellular ageing and death	1
2.	INFLAMMATION AND HEALING	
	Define Inflammation, Causes of Inflammation and types of Inflammation	2
	Define healing, Process of Healing	1
	Wound healing, Fracture healing, Muscle healing, Nervous tissue healing	2
3.	THE BLOOD VESSELS AND LYMPHATICSSYSTEM	
	Normal structure of arteries and types of arteries, vein and lymphatics	1
	Explain in detail about arteriosclerosis, atherosclerosis and its pathology.	2
	Discuss briefly about varicosities, varicose veins, thrombophlebitis and its pathogenesis	2

	Briefly discuss lymphangitis, lymphodema and tumors and its pathogenesis	2
4.	THE HEART	
	Cardiac hypertrophy, cardiac dilatation and its pathological changes	2
	Ischemic heart disease and its pathogenesis	2
	Cardiomyopathy and its pathogenesis.	2
	Myocardial Infarction and its pathogenesis	2
5.	THE RESPIRATORY SYSTEM	
	Define terms Pulmonary Oedema, Pulmonary congestion, Embolism and Infarction	1
	Pulmonary Arterial Hypertension and its pathogenesis	1
	Pulmonary Vascular Disease and its pathogenesis	2
	Pulmonary Infections and its pathogenesis	1
	Tumors of Lungs and its pathology	1
	Obstructive disease and its pathogenesis	2
	Section II	
6.	MUSCULO-SKELETAL SYSTEM	
	Spondylosis, Prolapsed Intervertebral Disc and Scoliosis.	2
	Arthritis: Haemarthrosis, Gout, Tuberculous, Degenerative, Inflammatory	2
	Ankylosing Spondylitis and its pathogenesis, Osteomyelitis	2
	Muscular dystrophy, Hypertrophy, Pseudohypertrophy, Atrophy	1
	Poliomyelitis, Myositis ossificans and Myotonia	1
	Myasthenia gravis: Myasthenic syndrome and its pathogenesis	1
7.	NERVOUS SYSTEM	
	Discuss briefly about structure of Central Nervous System.	1
	Meningitis, Encephalitis, Cerebro-Vascular diseases and tumors of CNS	2
	Neurosis and Nerve regeneration	2
	Demyelinating diseases, Peripheral neuropathy and its pathogenesis.	3
8.	ENDOCRINE SYSTEM	
	Diabetes Mellitus: types and its pathogenesis	3
	Thyroid: tumors of thyroid, thyrotoxicosis and its pathogenesis	2
9	NUTRITIONAL DISORDERS	
	Protein Energy Malnutrition disorders: Kwashiorkor and Marasmus	2
	Vitamin Deficiency disorders with specific examples and its pathogenesis	2

10	MISCELLANEOUS DISORDERS Basic concept of genetic disorders and its pathogenesis.	3
11	ADVANCE PATHOLOGY FOR PHYSIOTHERAPY Relating pathology and Physical therapy Application of physiotherapy practice in Pathological condition	2

Instructional Method:

1. Teaching and training sessions will be carried out through active learning. Active participation and contribution in group discussion and seminars are mandatory for students
2. Lectures to be conducted with the help of black board and/or audio-visual aids that includes multi-media projector, OHP, etc.
3. Assignments based on course content will be given to the students at the end of each unit/topic and will be evaluated at regular interval

Text Books

1. Textbook of Pathology: 5th edition. Harsh Mohan. Anshan Publishers
2. Robbins & Cotran Pathologic Basis of Disease. 8th edition. Kumar V; Abbas AK et al. Saunders

Reference Books

1. Y.M. Bhende's General Pathology and Pathology of Systems. Deoshare SG. Popular Prakashan Ltd 2008



SYLLABUS