LECTURES TO BE COVERED IN FIRST BLOCK				
1.	PA 1	PA1.2 Enumerate common definitions and terms used in Pathology		
		PA1.3 Describe the history and evolution of Pathology		
2.	PA 2	PA2.1 Demonstrate knowledge of the causes, mechanisms, types and effects of cell injury and their clinical significance		
3.	PA 2	PA2.2 Describe the aetiology of cell injury. Distinguish between reversible-irreversible injury: mechanisms; morphology of cell injury		
4.	PA 2	PA2.3 Intracellular accumulation of fats, proteins, carbohydrates, pigments		
5.	PA 2	PA2.4 Describe and discuss Cell death- Apoptosis and autolysis		
6.	PA 2	PA2.7 Describe and discuss the mechanisms of cellular aging and apoptosis		
7.	PA 2	Formative assessment – Cell Injury		
8.	PA 3	PA 3 Amyloidosis- Describe the pathogenesis and pathology of amyloidosis		
9.	PA 4	PA4.1 Define and describe the general features of acute and chronic inflammation including stimuli, vascular events		
10.	PA 4	PA4.1 Define and describe the general features of acute and chronic Inflammation including stimuli, and cellular events		
11.	PA 4	PA4.2 Enumerate and describe the mediators of acute inflammation		
12.	PA 4	PA4.3 Define and describe chronic inflammation including causes, types enumerate types, non-specific and granulomatous and examples of each		
13.	PA 4	Formative assessment – Inflammation		
14.	PA 5	PA5.1 Define and describe the process of repair and regeneration including wound healing and its types		
15.	PA 3 and 5	Formative assessment – Healing Repair and amyloidosis		
16.	PA 6	PA6.1 Define and describe edema, its types, pathogenesis and clinical correlations		
17.	PA 6	PA6.3 Define and describe shock, its pathogenesis and its stages		
18.	PA 6	PA6.4 Describe the etiopathogenesis and consequences of thrombosis		
19.	PA 6	PA6.5 Define and describe embolism and its causes and common types		
20.	PA 6	Formative assessment – Hemodynamic disorders		
21.	PA 7	PA7.1 Define and classify neoplasia, biologic, behaviour and spread		

22.	PA 7	PA7.1 Define and classify neoplasia, biologic, behaviour and spread
23.	PA 7	PA7.2 Describe the molecular basis of cancer
24.	PA 7	PA7.2 Describe the molecular basis of cancer
25.	PA 7	PA7.3 Enumerate carcinogens and describe the process of carcinogenesis
26.	PA 7	PA7.3 Enumerate carcinogens and describe the process of carcinogenesis
27.	PA 7	PA7.4 Describe the effects of tumour on the host including paraneoplastic syndrome
28.	PA 7	PA 7.5 Describe immunology and the immune response to cancer
29.	PA 7	Formative assessment - Neoplasia
30.	PA 8	Basic diagnostic cytology
31.	PA 9	PA 9.1 and 9.2 Immunopathology And Aids- principles and mechanisms in immunity and hypersensitivity reactions
		hypersensitivity reactions
32.	PA 9	PA9.3 HLA system and the immune principles. Describe the involved in transplant and mechanism of transplant rejection
33.	PA 9	PA9.4 Define autoimmunity. Enumerate autoimmune disorders
34.	PA 9	PA9.5 Define and describe the pathogenesis of Systemic Lupus Erythematosus
35.	PA 9	PA9.6 Define and describe the pathogenesis and pathology of HIV and AIDS
36.	PA 9	9.7 Define and describe the pathogenesis of other common autoimmune diseases
37.	PA 9	Formative assessment - Immunity
38.	. PA 10	PA10.1 10.2 10.3 Define and describe the pathogenesis and pathology of malaria, cysticercosis and leprosy
39.	. PA 13	PA13.3 Define and classify anaemia
40.	. PA 13	PA13.4 Enumerate and describe the investigation of anaemia
41.	PA	PA14.1 Describe iron metabolism
	14	PA14.2 Describe the aetiology, investigations and differential diagnosis of Microcytic Hypochromic anaemia
42.	. PA 15	PA15.1 Describe the metabolism of Vitamin B12 and the aetiology and pathogenesis of B12 deficiency
		PA15.2 Describe laboratory investigations of macrocytic anaemia
		PA15.4 Enumerate the differences and describe the distinguishing features of megaloblastic and non-megaloblastic macrocytic anaemia

43.	PA	PA16.1 Define and classify haemolytic anaemia
	16	PA16.2 Describe the pathogenesis and clinical features and hematologic indices of haemolytic anaemia
		PA16.5 Describe the peripheral blood picture in different haemolytic anaemias
44.	PA	PA16.3 Describe the pathogenesis, features, hematologic indices and peripheral blood
	16	picture of sickle cell anaemia and Thalassemia
45.	PA	PA16.4 a. Describe the aetiology pathogenesis, hematologic indices and peripheral blood
	16	picture of Acquired haemolytic anaemia
		PA16.4 b : Case based discussions- 1. Sickle cell anaemia 2. Thalassemia
		3. Hereditary spherocytosis 4. Autoimmune haemolytic anaemia
46.	PA	PA 17.1 Enumerate the aetiology, pathogenesis and findings in Aplastic anaemia
	17	PA17.2 Enumerate the indications and describe the findings in hone marrow aspiration and
		biopsy

LECTURES TO BE COVERED IN SECOND BLOCK			
1.	PA 11	PA11.1 Describe the pathogenesis and features of common cytogenetic abnormalities and mutations in childhood with laboratory diagnosis of Genetic disorder	
2.	PA 11	PA11.2 Describe the pathogenesis and pathology of tumor and tumour like conditions in infancy and childhood (Nephroblastoma, Retinoblastoma, Neuroblastoma)	
3.	PA 11	PA11.3 Describe the pathogenesis of common storage disorders in infancy and childhood	
4.	PA 11	PA 11 Formative assessment - Genetics	
5.	PA 12	PA12.2 Describe the pathogenesis of disorders caused by protein calorie malnutrition and starvation	
6.	PA 12	PA12.3 Describe the pathogenesis of obesity and its consequences	
7.	PA 18	PA 18.2 Describe the aetiology, genetics, pathogenesis classification, features, hematologic features of acute leukemias	
8.	PA 18	PA 18.2 Describe the aetiology, genetics, pathogenesis classification, features, hematologic features of chronic leukemias	
9.	PA	PA 13, 14 15 16 17 18- formative assessment – Anaemia and leucocyte disorders	

10	PA 19	PA 19.1 Enumerate the causes and describe the differentiating features of lymphadenopathy PA 19.6 Enumerate and differentiate the causes of Splenomegaly
		PA 19.2 Describe the pathogenesis and pathology of tuberculous lymphadenitis
11	PA 19	PA19.4 Describe and discuss the pathogenesis, pathology and the differentiating features of Hodgkin's and non-Hodgkin's lymphoma
12	PA 20	Pa 20.1 Plasma cell disorders
13	PA 21	PA21.1 Describe normal haemostasis and aetiology, pathogenesis and pathology haemophilias
14	PA 21	PA21.2 Classify and describe the aetiology, pathogenesis and pathology of vascular and platelet disorders including ITP
15	PA 21	PA21.4 Define and describe disseminated intravascular coagulation, its laboratory findings and diagnosis of DIC
		PA21.5 Define and describe disseminated intravascular coagulation, its laboratory findings and diagnosis of Vitamin K def.
16	PA 21	PA 21.3 Differentiate platelet from clotting disorders based on the clinical and hematologic features. Differentiate platelet from clotting disorders based on the clinical and hematologic features.
17	PA 22	PA22.4 Enumerate blood components and describe their clinical uses
	11	PA22.5 Enumerate and describe infections transmitted by blood transfusion
18	PA 22	PA22.6 Describe transfusion reactions and enumerate the steps in the investigation of a transfusion reaction
		PA22.7 Enumerate the indications and describe the principles and procedure of autologous transfusion
19	PA 24	PA24.1 Describe the etiology, pathogenesis, pathology and clinical features of oral cancers include salivary gland tumors
20	PA 24	PA24.2 Describe the etiology, pathogenesis, pathology, microbiology, clinical and microscopic features of peptic ulcer disease
21	PA 24	PA 24.4 Describe and aetiology and pathogenesis and pathologic features of carcinoma of the stomach
22	PA 24	PA24.6 Describe and etiology and pathogenesis and pathologic and distinguishing features of Inflammatory bowel disease
23	PA 24	PA24.7 Describe the etiology, pathogenesis, pathology and distinguishing features of carcinoma of the colon

24	PA	PA – 24 formative assessment - GIT
	24	
25	PA 24	PA25.1- Describe bilirubin metabolism, enumerate the aetiology and pathogenesis of jaundice, distinguish between direct and indirect hyperbilirubinemia
26	PA 25	PA25.2 Describe the pathophysiology and pathologic changes seen in hepatic failure and their clinical manifestations, complications and consequences
		PA25.3 Describe the etiology and pathogenesis of viral and toxic hepatitis: distinguish the causes of hepatitis based on the clinical and laboratory features. Describe the pathology, complications and consequences of hepatitis
27	PA 25	PA25.4 Describe the pathophysiology, pathology and progression of alcoholic liver disease including cirrhosis
		PA 25.5 Describe the etiology, pathogenesis and complications of portal hypertension
28	PA	PA 25.6 Interpret liver function and viral hepatitis serology panel. Distinguish obstructive from non-obstructive jaundice based on clinical features and liver function tests
29	PA 25	PA 25 Formative assessment – Hepatobiliary system
30	PA 26	PA26.1 Define and describe the etiology, types, pathogenesis, stages, morphology and
	20	PA26.2 Describe the etiology, gross and microscopic appearance and complications of lung abscess
31	PA 26	PA26.3 Define and describe the etiology, types, pathogenesis, stages, morphology and complications and evaluation of Chronic Bronchitis and Emphysema
32	PA 26	PA26.4 Define and describe the etiology, types, pathogenesis, stages, morphology microscopic appearance and complications of tuberculosis – include other organs with Tuberculosis
33	PA 26	PA26.5 Define and describe the etiology, types, exposure, environmental influence, pathogenesis, stages, morphology, microscopic appearance and complications of Occupational lung disease
34	PA 26	PA26.6 Define and describe the etiology, types, exposure, genetics environmental influence, pathogenesis, stages, morphology, microscopic appearance, metastases and complications of tumors of the lung and pleura
		PA26.7 Define and describe the etiology, types, exposure, genetics environmental influence, pathogenesis, morphology, microscopic appearance and complications of mesothelioma
35	PA 26	PA 26 – Formative assessment – Respiratory system

36	PA	PA27.1 Distinguish arteriosclerosis from atherosclerosis. Describe the pathogenesis and
	27	pathology of various causes and types arteriosclerosis
37	PA	PA 27.5 Describe the epidemiology, risk factors, etiology,
	27	pathophysiology, pathology, presentations, gross and microscopic features, diagnostic tests
		and complications of ischemic heart disease
20	DA	
38	PA 27	PA 27.2 Describe the etiology, dynamics, pathology types and complications of aneurysms
	27	Including aortic aneurysms.
		PA 27.3 Heart Failure
-		PA 27.10 Syphilis in cardiovascular system
39	PA	PA 27.2 Rheumatic fever
	27	PA 27.4 Infective endocarditis
40	PA	PA 27.7 Pericarditis and pericardial effusion
	27	PA 27.9 Cardiomyopathies
4.1	D.4	
41	PA 27	PA 2/ formative assessment – Cardiovascular system
	27	
10	DA	
42	PA	PA28.1 Describe the normal histology of the kidney
	28	PA28.5 Define and classify glomerular diseases. Enumerate and describe the etiology,
		pathogenesis, mechanisms of glomerular injury, pathology, distinguishing features and
		clinical manifestations of glomerulonephritis
		FA28.6 Define and describe the ethology, pathogenesis, pathology, laboratory, urinary
12	DA	Indings, progression and complications of IgA nephropathy
43	PA 29	PA 28.2 Define renai failure and distinguish the clinical syndromes and describe the eurology,
	28	complications of ronal failure
		PA 28.3 Define and describe the etiology precipitating factors pathogenesis pathology
		laboratory urinary findings, progression and complications of acute renal failure
		aboratory armary manage, progression and complications of acute renar fandre.
		PA 28.4 Define and describe the etiology precipitating factors pathogenesis pathology.
		laboratory urinary findings progression and complications of chronic renal failure
44	PA	PA28.8 Enumerate and classify diseases affecting the tubular interstitium
	28	PA28.9 Define and describe the etiology, pathogenesis, pathology, laboratory, urinary
		findings, progression and complications of acute tubular necrosis
		PA28.10 Describe the etiology, pathogenesis, pathology, laboratory findings, distinguishing
		features progression and complications of acute and chronic pyelonephritis and reflux
		nephropathy
45	PA	PA28.7 Enumerate and describe the findings in glomerular manifestations of systemic disease
	28	PA28.11 Define classify and describe the etiology, pathogenesis pathology, laboratory,
		urinary findings, distinguishing features progression and complications of vascular disease of
		the kidney

		PA28.15 Describe the etiology, genetics, pathogenesis, pathology, presenting features and progression of thrombotic angiopathies
46	PA 28	 PA 28.12 Define classify and describe the genetics, inheritance, etiology, pathogenesis, pathology, laboratory, urinary findings, distinguishing features, progression and complications of cystic disease of the kidney. PA 28.13 Define classify and describe the etiology, pathogenesis, pathology, laboratory,
		urinary findings, distinguishing features progression and complications of renal stone disease and obstructive uropathy
47	PA 28	PA28.14 Classify and describe the etiology, genetics, pathogenesis, pathology, presenting features, progression and spread of renal tumors
48	PA 28	Formative Assessment- Urinary System

LECT	LECTURES TO BE COVERED IN <u>THIRD</u> BLOCK		
1.	PA	PA29.1 Classify testicular tumors and describe the pathogenesis, pathology, presenting	
	29	and distinguishing features, diagnostic tests, progression and spread of testicular tumors	
		diagnostic tests, progression and spread of carcinoma of the penis	
2.	PA 29	 PA29.3 Describe the pathogenesis, pathology, hormonal dependency presenting and distinguishing features, urologic findings & diagnostic tests of benign prostatic hyperplasia PA29.4 Describe the pathogenesis, pathology, hormonal dependency presenting and distinguishing features, diagnostic tests, progression and spread of carcinoma of the prostate PA29.5 Describe the etiology, pathogenesis, pathology and progression of prostatitis 	
3.	PA	PA30.1 Describe the epidemiology, pathogenesis, etiology, pathology, screening,	
	30	diagnosis and progression of carcinoma of thecervix	
		PA30.6 Describe the etiology and morphologic features of cervicitis	
4.	PA 20	PA30.2 Describe the pathogenesis, etiology, pathology, diagnosis and progression and	
	50	PA30.7 Describe the etiology, hormonal dependence, features and morphology of	
		endometriosis	
		PA30.8 Describe the etiology and morphologic features of adenomyosis	
		hyperplasia	
5.	PA	PA30.4 Classify and describe the etiology, pathogenesis, pathology, morphology, clinical	
	30	course, spread and complications of ovarian tumors	

6.	PA	PA30.5 Describe the etiology, pathogenesis, pathology, morphology, clinical course,
	30	spread and complications of gestational trophoblastic neoplasms
7.	PA	PA31.1 Classify and describe the types, etiology, pathogenesis, hormonal dependency of
	31	breast pathology and benign disease
		PA31.4 Enumerate and describe the etiology, hormonal dependency and pathogenesis of
		gynecomastia
8.	PA	PA31.2 Classify and describe the epidemiology, pathogenesis, classification,
	31	morphology, prognostic factors, hormonal dependency, staging and spread of carcinoma
		of the breast
9.	PA	PA32.4 Classify and describe the epidemiology, etiology, pathogenesis, pathology,
	32	clinical laboratory features, complications and progression of diabetes mellitus
10.	PA	PA 35.1 CSF
	35	
11	DA	DA221 Charles and describe the distance and second in the first discuss of the distance of the
11.	PA 22	PA35.1 Classify and describe the etiology, pathogenesis, manifestations, radiologic and
	22	morphologic reatures and complications of osteomyenus
12.	PA	PA33.2 Classify and describe the etiology, pathogenesis, manifestations, radiologic and
	33	morphologic features and complications and metastases of bone tumors
13.	PA	PA32.1 Enumerate, classify and describe the etiology, pathogenesis, pathology and
	32	iodine dependency of thyroid swellings with Thyroid neoplasms
	D.4	
14.	PA	PA35.2 Classify and describe the etiology, genetics, pathogenesis, pathology,
	35	presentation sequelae and complications Of CNS tumors
15.	PA	PA34.1 Describe the risk factors pathogenesis, pathology and natural history of
	34	squamous cell carcinoma of the skin
		PA34.2 Describe the risk factors pathogenesis, pathology and natural history of basal cell
		carcinoma of the skin
		PA34.3 Describe the distinguishing features between a nevus and melanoma. Describe
		the etiology, pathogenesis, risk factors morphology clinical features and metastases of
		melanoma

DOAP List

	FIRST BLOCK				
1		Introduction to Pathology Laboratory			
	PA 2 3	Cell Injury			
2		PA 2.8 Identify and describe various forms of cell their manifestations and consequences in gross and microscopic specimens – reversible injury and pathological calcification			
3		PA 2.5 Describe and discuss pathological calcification and gangrene			
4		PA 2.8 Identify and describe various forms of cell injuries their manifestations and consequences in gross and microscopic specimens Coagulation, Caseous, Liquefactive necrosis and apoptosis			
	PA 4				
5		PA 4.4 Identify and describe acute inflammation in gross and microscopic specimens. Acute Appendicitis, Acute Meningitis			
6		PA 4.4 Identify and describe acute inflammation in gross and microscopic specimens. Pneumonia			
7		PA 4.4 Identify and describe chronic inflammation in gross and microscopic specimens. Tuberculosis, Rhinosporidiosis, Actinomycosis			
	PA 6				
8		PA 6.2 Define and describe hyperemia, congestion, hemorrhage			
9		PA 6.6 Define and describe Ischaemia / Infarction on types, etiology, morphological changes and effects			
10	DA 7	PA 6.7 Identify and describe the gross and microscopic features of infarction in a pathology specimen			
11	PA /	PA 7 to Identify the gross and microscopic features of banign peoplesms			
12		TA 7.1a identity the gross and incroscopic reatures of beingh heoplashis.			
		PA 7.1b Identify the gross and microscopic features of malignant neoplasms			
	PA 8				
13		PA 8.3 Observe a diagnostic cytology and its staining and interpret the specimen			
	PA 13				
14		PA 13.2 Describe the role of anticoagulants in hematology			
15		PA13.5 Perform, Identify and describe the peripheral blood picture in anemia			
	PA 14				
16		PA 14.3 Identify and describe the peripheral smear in microcytic anemia			
	PA 15				

17		PA15.3 Identify and describe the peripheral smear in macrocytic anemia
	PA 16	
18		PA 16.5 : Identify and describe the peripheral smear in various haemolytic anaemias
19		PA 16.6 Prepare a peripheral blood smear and identify hemolytic anaemia from it.
		SECOND BLOCK
	PA 18	
20		PA 18.2 : Demonstrate hematological findings and interpret charts and smears of leukemia
	PA 19	
21		PA 19.3 Identify and describe the features of tuberculous lymphadenitis in a gross and microscopic specimen
22		PA 19.5 Identify and describe the features of Hodgkin's lymphoma in a gross and microscopic specimen.
23		PA 19.7 Identify and describe the gross specimen of an enlarged spleen. Causes of splenomegaly
	PA 20	
24		PA 20.1 Describe the features of plasma cell myeloma
	PA 22	
25		PA 22.1 Classify and describe blood group systems (ABO and RH)
		PA 22.2 Enumerate the indications, describe the principles, enumerate and demonstrate the steps of compatibility testing.
	PA 23	
26		PA 23.1 Describe abnormal urinary findings in disease states and identify and describe common urinary abnormalities in a clinical specimen
27		PA 23.3 Describe and interpret the abnormalities in a panel containing semen analysis.
28		PA 23.3 Describe and interpret the abnormalities in a panel containing renal function test.
29		PA 23.3 Describe and interpret the abnormalities in a panel containing thyroid function test.
	PA 24	
30		PA 24.3 Describe and identify the microscopic features of peptic ulcer. – include slides of Pleomorphic adenoma and specimen of Ca Stomach, Ca Colon, TB intestine, Peptic ulcer
31		PA 24.5 Describe and aetiology, pathogenesis and pathologic features of Tuberculosis of the intestine

	PA 25	
32		PA 25.6 Interpret liver function and viral hepatitis serology panel. Distinguish obstructive from non-obstructive jaundice based on clinical features and liver function tests
	PA 26	
33		PA 26 – Respiratory system
	PA 27	
34		PA 27.8 Interpret abnormalities in cardiac function testing in acute coronary syndromes
		THIRD BLOCK
	PA 31	
35		PA 31.3 Describe and identify the morphologic and microscopic features of carcinoma of the breast.
	PA 34	
36		PA 34.4 Identify, distinguish and describe common tumors of the skin.
	PA 35	
37		PA 35.1 Describe the etiology, types and pathogenesis, differentiating factors, CSF findings in meningitis. PA 35.3 Identify the etiology of meningitis based on given CSF parameters.