

B.D.S SECOND YEAR YEAR
SUBJECT: GENERAL PATHOLOGY

Teaching Scheme(Hours)				Credits	Examination Scheme				
Lec(L)	Prac(P)	Clinical(C)	Total		External		Sessional		Total
					Theory	Pract	Theory	Pract	
78	75	-	153	1	1	3	3	8	

A. COURSE OVERVIEW

At the end of the course, the student should be competent to:

Apply the scientific study of disease processes, which result in morphological and functional alterations in cells, tissues and organs to the study of pathology and the practice of dentistry.

B. COURSE CONTENT

NO	TOPIC	L+P (hrs)	CLs
1	Introduction to Pathology	1+0	CL1
2	Etiology and Pathogenesis of Disease	3+3	CL1,2
3	Degenerations Amyloidosis Fatty change Cloudy swelling Hyaline change, mucoid degeneration	3+3	CL
4	Cell death & Necrosis	4+3	CL1
5	Inflammation	4+3	CL1,2
6	Healing	2+0	CL1,2,3
7	Tuberculosis	2+3	CL1,2,3,4,5
8	Syphilis	4+3	CL1,2,3,4,5
9	Typhoid	2+3	CL1,2,3,4,5
10	Thrombosis	3+3	CL1,2
11	Embolism	2+3	CL1,2
12	Ischaemia and Infraction	3+3	CL1
13	Derangements of body fluids	2+3	CL1,2,4
14	Disorders of circulation	2+3	CL1,2,4
15	Nutritional Disorders	3+3	CL2,3,4,5
16	Immunological mechanisms in disease	2+3	CL1,2,4
17	AIDS and Hepatitis	3+3	CL2,3,4
18	Hypertension	2+3	CL2,3,5
19	Diabetes Mellitus	3+3	CL2,3,4,5,6
20	Adaptive disorders of growth	2+0	CL1
21	General Aspects of neoplasia	4+3	CL1
22	Anaemias	2+3	CL1,2,3
23	Leukaemias	4+3	CL1,2,3
24	Diseases of Lymph nodes	3+3	CL1,2,3
25	Diseases of oral cavity	3+3	CL1,2,3,4,5,6
26	Diseases of salivary glands	2+3	CL1,2,3,4,5,6
27	Common diseases of Bones	3+3	CL1,2
28	Diseases of Cardiovascular system	3+0	CL1,2
29	Haemorrhagic Disorders	2+3	CL1,2

C. TEXT BOOKS

1. Robbins & Cotran; Pathologic Basis of Disease - 10th Edition, Elsevier publications, 2017.
2. Ivan Damjanaov & James Linder; Andersons's Pathology Vol 1 & 2, 10th edition, Mosby publications, 2011
3. Bithell, Foerster, Athens, Lukens; Wintrobe's clinical Haematology, 14th edition, LWW publications, 2019.

D. REFERENCE BOOKS

E. COMPETENCY LEVEL

CL Number	Skill	Statement
CL1	Knowledge	<ul style="list-style-type: none">• Adequate knowledge of the development, structure and function of the human body in health and disease and its relationship with dentistry while bearing physical and social well-being of the patient.
CL2	Investigations	<ul style="list-style-type: none">• To recognize and analyze pathological changes at macroscopically and microscopical levels and explain their observations in terms of disease processes
CL3	Patient Care: Diagnosis	<ul style="list-style-type: none">• Diagnose the patient's problem and get familiarized with concepts of general pathology.
CL4	Patient Care: Treatment planning	<ul style="list-style-type: none">• To demonstrate and apply basic facts, concepts and theories in the field of Pathology
CL5	Patient Care: Treatment	<ul style="list-style-type: none">• To Integrate knowledge from the basic sciences, clinical medicine and dentistry in the study of Pathology• To demonstrate understanding of the capabilities and limitations of morphological Pathology in its contribution to medicine, dentistry and biological research.
CL6	Research and Innovation	<ul style="list-style-type: none">• Upgradation of knowledge and skill from time to time, familiarize with new concept and equipment in general pathology.
CL 7	Evidence Based Learning	<ul style="list-style-type: none">• Consolidate all the above mentioned major competencies acquired during the course and integrate newer evidence based knowledge in displaying expertise in the science of GENERAL PATHOLOGY

PROGRAM SPECIFIC OUTCOME (PSO)

PSO1	DIAGNOSIS	<ul style="list-style-type: none"> To recognize and analyze pathological changes at macroscopically and microscopical levels and explain their observations in terms of disease processes
PSO2	INVESTIGATIONS	<ul style="list-style-type: none"> To recognize and analyze pathological changes at macroscopically and microscopical levels and explain their observations in terms of disease processes
PSO3	TREATMENT	<ul style="list-style-type: none"> To Integrate knowledge from the basic sciences, clinical medicine and dentistry in the study of Pathology

F. COURSE MATRIX

	PO 1	PO 2	PO 3	PO 4	PO 5	PO 6	PO 7	PO 8	PO 9	PO 10	PO 11	PO 12	PO 13	PO 14	PO 15	PS O1	PS O2	PS O3
CL1	3	3	3	1	3	1	1	1	1	1	1	1	1	1	1	3	2	2
CL2	2	2	2	2	2	2	1	3	2	1	2	2	1	1	1	3	3	2
CL3	3	3	3	3	3	3	3	3	2	1	2	2	1	1	1	3	2	2
CL4	2	2	2	3	2	3	2	2	2	1	2	2	1	1	1	3	3	3
CL5	2	2	2	3	2	3	3	2	2	2	2	2	3	2	1	3	3	3
CL6	2	2	2	2	2	1	1	1	1	1	1	1	1	1	1	3	2	2
CL7	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3
Avg	2.4	2.4	2.4	2.4	2.4	2.3	2.0	2.1	1.9	1.4	1.9	1.9	1.6	1.4	1.3	3.0	2.6	2.4