

B.D.S FIRST YEAR

SUBJECT: HUMAN ANATOMY, EMBRYOLOGY, HISTOLOGY & MEDICAL GENETICS

Teaching Scheme(Hours)				Credits	Examination Scheme				
Lec(L)	Prac(P)	Clinical(C)	Total		External		Sessional		Total
				Theory	Pract	Theory	Pract		
182	286	-	468	1	1	3	3	8	

A. COURSE OVERVIEW

The students should gain the knowledge and insight into, the functional anatomy of the normal human head and neck, functional histology and an appreciation of the genetic basis of inheritance and disease, and the embryological development of clinically important structures. Therefore, those relevant anatomical & scientific foundations are laid down for the clinical years of the BDS course.

B. COURSE CONTENT

NO	TOPIC	L+P (hrs)	CLs
1	INTRODUCTION	5+0	CL 1,3,6
2	HEAD & NECK	42+65	CL 1,2,3,4,5,6
3	THORAX	26+40	CL 1,2,3,4,5,6
4	ABDOMEN	22+40	CL 1,2,3,4,5,6
5	CLINICAL PROCEDURES	20+32	CL4,5
6	EMBRYOLOGY	22+40	CL 1,2,3,4,5,6
7	HISTOLOGY	30+40	CL 1,2,3,4,5,6
8	MEDICAL GENETICS	15+20	CL 1,2,3,4,5,6

C. TEXT BOOKS

D. REFERENCE BOOKS

1. Richard S. Snell; Clinical Anatomy for Medical Students, 5th edition; Little Brown & company, 1995.
2. Chummy S. Sinnatamby; RJ LAST'S Anatomy, 12th edition, Churchill Livingstone, 2011.
3. Romanes; Cunningham Manual of Practical Anatomy: Head & Neck & Brain, 15th edition, Oxford Medical publication, 1986.
4. Wheater; burkitt & Daniels; Functional Histology, 6th edition, Churchill Livingstone, 2013.
5. Sadler; Langman's, Medical Embryology, 14th edition, Lippincott Williams & Wilkins, 2018.
6. James A Anderson; Grant's Atlas of Anatomy, 14th edition, Wolters Kluwer India Pvt Ltd., 2016.
7. Williams; Gray's Anatomy, 38th edition, Churchill Livingstone, 1995.
8. Peter Turnpenny, Sian Ellard; Emery's Elements of Medical Genetics, 15th edition, Elsevier publication, 2017.

E. COMPETENCY LEVEL

CL Number	Skill	Statement
CL1	Knowledge	<ul style="list-style-type: none"> Know the normal disposition of the structures in the body while clinically examining a patient and while conducting clinical procedures. Know the anatomical basis of disease and injury
CL2	Investigations	<ul style="list-style-type: none"> Know the sectional anatomy of head neck and brain to read the features in radiographs and pictures taken by modern imaging techniques
CL3	Patient Care: Diagnosis	<ul style="list-style-type: none"> Know the microscopic structure of the various tissues, a pre-requisite for understanding of the disease processes.
CL4	Patient Care: Treatment planning	<ul style="list-style-type: none"> Ethically Integrate multiple disciplines into an individual comprehensive sequence treatment plan using diagnostic and prognostic information
CL5	Patient Care: Treatment	<ul style="list-style-type: none"> To locate various structures of the body and to mark the topography of the living anatomy. To identify various tissues under microscope and to detect various congenital abnormalities. .
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 this field.
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 HUMAN ANATOMY, EMBRYOLOGY, HISTOLOGY & MEDICAL GENETICS

PROGRAM SPECIFIC OUTCOME (PSO)

PSO1	DIAGNOSIS	By ethically emphasising on the relevant information the anatomy taught integrally with other basic sciences & clinical subjects not only keeps the curiosity alive in the learner but also lays down the scientific foundation for making a better doctor, a benefit to the society.
PSO2	INVESTIGATIONS	Know the sectional anatomy of head neck and brain to read the features in radiographs and pictures taken by modern imaging techniques
PSO3	TREATMENT	To locate various structures of the body and to mark the topography of the living anatomy while keeping ethical and moral values.

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