PANIPAT INSTITUTE OF ENGINEERING AND TECHNOLOGY, PANIPAT

DEPARTMENT OF PHARMACY

Course: Diploma in Pharmacy

LESSON PLAN

Faculty Name: Ms. Suman **Subject Name: Human Anatomy and Physiology**

Class: D. Pharmacy – Ist year **Subject Code: (ER20-14)**

Scope of the Subject: This course is designed to impart basic knowledge on the structure and functions of the human body. It helps in understanding both homeostasis mechanism and homeostatic imbalances of various systems of human body.

Course outcome: Upon completion of this course the student should be able to:

- Understand the structure and functions of the various organs of the human body
- Understand the various homeostatic mechanisms and their imbalance
- Perform the haematological tests and also record the blood pressure, heart rate, pulse rate and respiratory volumes

Number of Lectures: 75+5 **Each lecture**: 01 hour

Lecture No.	Particular	Remark/Date
Module 1 Scope of Anatomy and physiology		
1.	Definition and scope of various terms used in Anatomy	
2.	Structure of cell and their functions	
Module 2. Cell structure		
3.	Components and its functions	
4.	Components and its functions	
Module 3: Elementary tissues		
5.	Introduction , elementary tissues of the body	
6.	Epithelial tissue	
7.	Muscular tissue	
8.	Connective tissue	
9.	Nervous tissue	
Module 4: Osseous syetem		
10.	Structure and functions of axial skeleton	
11.	Structure and functions of appendicular skeleton	
12.	Structure and functions of appendicular skeleton	
13.	Classifiactions of joints	
14.	Types and movements of joints	
15.	Disorders of joints	
Module 5 : Hemopoietic Sytems		
16.	Compostions and Functions of Blood	
17.	Hemopoiesis	
18.	RBC Characteristics and functions	
19	WBC Characteristics and functions	
20.	Platlets Characteristics and functions	
21	Blood Clotting	

22.	Blood Groups	
23.	Revisions	
Module 6: Lymphatic system		
24.	Lymph and lymphatic system, composition, functions and its formation	
25.	Spleen structure and functions	
26.	Lymph node structure and functions	
Module 7: Cardiovascular System		
27.	Anatomy and physiologyof the heart	
28.	Blood vessels and circulation pulmonary	
29.	Blood vessels and circulation coronary	
30.	Blood vessels and circulation systemic	
31.	Cardiac cycleand heart sounds	
32.	ECG	
33.	Blood Pressure and its regulations	
Module 8: Respiratory System		
34.	Anatomy of Respiratory organs and their functions ,	
35.	Anatomy of Respiratory organs and their functions ,	
36.	Regulations and mechanisms of respirations	
37.	Respuratory Volumesand capacities	
Module 9: Digestive System		
38.	Anatomy and physiology of GIT	
39.	Anatomy and physiology of GIT	
40.	Anatomy and physiology of GIT	
41.	Anatomy and functions of accessory glands	
42.	Anatomy and functions of accessory glands	
43.	Anatomy and functions of accessory glands	
44.	Physiology of digestion absorption	
45.	Physiology of digestion absorption	
Module 10: Skeletal muscle		
46.	Histology and Physiology of muscle contraction	
47.	Skeletal muscle disorders	
Module 11: Nervous System		
48.	Classification	
49.	Anatomy and physiology of Cerebrum, cerebellum mid brain	
50.	Anatomy and physiology of Cerebrum, cerebellum mid brain	
51.	Functionsof hypothalamus, medulla oblengata, basal ganglia	
52.	Spinalcord structure and reflexes	
53.	Names and functions of cranial nerves	
54.	Sympathetic nervoussystem anatomy and physiology	
55.	Para Sympathetic nervoussystem anatomy and physiology	
Module 12: Sensory Organs		
56.	Anatomy and Physiology of EYE	
57.	Anatomy and Physiology of Ear	

58.	Anatomy and Physiology of skin	
59.	Anatomy and Physiology of tongue	
60.	Anatomy and Physiology of nose	
Module 13: Urinary System		
61.	Anatomy and physiology of urinary system	
62.	Physiology of urine formation	
63.	Renin angiotensin system	
64.	Clearencetests and micturition	
Module 14: Endocrine System (hormones and their functions)		
65.	Pituitary gland	
66.	Thyroid and parathyroid gland	
67.	Adrenal gland	
68.	Pancreas and gonads	
69	Pancreas and gonads	
Module 11: Reproductive system		
70.	Physiology and anatomy of male reproductive system	
71.	Physiology and anatomy of female reproductive system	
72.	Physioogy of mensuration	
73.	Spermatogenesis and oogenesis	
74.	Spermatogenesis and oogenesis	
75.	Pregnancy and parturition	
Revision		
76.	Revision of previous question papers	
77.	Revision of previous question papers	
78.	Revision of previous question papers	
79.	Revision of previous question papers	
80.	Revision of previous question papers	

Teacher In-charge **HOD** **Principal**