



MONAD UNIVERSITY

Estd. Under U.P. Govt. University Act 23 of 2010 & U/S 2(f) of the U.G.C. Act 1956.

N.H.24, Delhi Hapur Road, Village & Post – Kastla, Kasmabad,

P.O. Pilkhuwa – 245101, District Hapur (U.P.) India

www.monad.edu.in.

Course Plan

Program- D. Pharm

Year-Ist

Course ER20-14T HUMAN ANATOMY AND PHYSIOLOGY – THEORY

Session – 2021-22

S. No.	Day	Subject	L	T	P	Total
1	D Day	Topics				
2	D+1	Scope of Anatomy and Physiology Definition of various terminologies.	1	0	0	1
3	D+2	Definition of various terminologies.	1	0	0	1
4	D+3	Structure of Cell: Components and its functions	1	0	0	1
5	D+4	Components and its functions	1	0	0	1
6	D+5	Tutorial (Problem solving session/ class test)	0	1	0	1
7	D+6	Tissues of the human body: Epithelial,	1	0	0	1
8	D+7	Connective, Muscular	1	0	0	1
9	D+8	Nervous tissues – their sub-types and characteristics	1	0	0	1
10	D+9	Sub-types and characteristics	1	0	0	1
11	D+10	Tutorial (Problem solving session/ class test)	0	1	0	1

		TOTAL	8	2	0	10
12	D+11	Osseous system: Structure of bones of axial and appendicular skeleton	1	0	0	1
13	D+12	Functions of bones of axial and appendicular skeleton	1	0	0	1
14	D+13	Appendicular skeleton.	1	0	0	1
15	D+14	Classification,	1	0	0	1
16	D+15	Tutorial (Problem solving session/ class test)	0	1	0	1
17	D+16	Types and movements of joints,	1	0	0	1
18	D+17	disorders of joints.	1	0	0	1
19	D+18	Haemopoietic system	1	0	0	1
20	D+19	Composition and functions of blood	1	0	0	1
21	D+20	Tutorial (Problem solving session/ class test)	0	1	0	1
		TOTAL	8	2	0	10
22	D+21	Process of Hemopoiesis	1	0	0	
23	D+22	Characteristics and functions of RBCs,	1	0	0	1
24	D+23	Characteristics and functions of WBCs, and platelets	1	0	0	1
25	D+24	Characteristics and functions of platelets.	1	0	0	1
26	D+25	Tutorial (Problem solving session/ class test)	0	1	0	1
27	D+26	Mechanism of Blood Clotting	1	0	0	1
28	D+27	Importance of Blood groups	1	0	0	1
29	D+28	Lymphatic system- Lymph and lymphatic system,	1	0	0	1
30	D+29	composition, function and its formation.	0	1	0	1
31	D+30	Tutorial (Problem solving session/ class test)	1	0	0	
		TOTAL	8	2	0	10

32	D+31	Structure and functions of spleen and lymph node.	1	0	0	1
33	D+32	Cardiovascular system	1	0	0	1
34	D+33	Anatomy and Physiology of heart	1	0	0	1
35	D+34	Blood vessels (Pulmonary, coronary and systemic circulation)	1	0	0	1
	D+35	Tutorial (Problem solving session/ class test)	0	1	0	1
36	D+36	circulation (Pulmonary, coronary and systemic circulation)	1	0	0	1
37	D+37	Cardiac cycle and Heart sounds,	1	0	0	1
38	D+38	Basics of ECG	1	0	0	1
39	D+39	Blood pressure and its regulation	1	0	0	1
40	D+40	Tutorial (Problem solving session/ class test)	0	1	0	1
		TOTAL	8	2	0	10
41	D+41	Blood pressure and its regulation.	1	0	0	1
42	D+42	Respiratory system	1	0	0	1
43	D+43	Anatomy of respiratory organs and their functions.	1	0	0	1
44	D+44	Regulation, and Mechanism of respiration.	1	0	0	1
45	D+45	Tutorial (Problem solving session/ class test)	0	1	0	1
46	D+46	Respiratory volumes and capacities – definitions	1	0	0	1
47	D+47	Digestive system	1	0	0	1
48	D+48	Anatomy and Physiology of the GIT	1	0	0	1
49	D+49	Physiology of the GIT	1	0	0	1
50	D+50	Tutorial (Problem solving session/ class test)	0	1	0	1
		TOTAL	8	2	0	10

51	D Day					
52	D+51	Anatomy and functions of accessory glands	1	0	0	1
53	D+52	functions of accessory glands.	1	0	0	1
54	D+53	Physiology of digestion and absorption	1	0	0	1
55	D+54	Physiology of absorption.	1	0	0	1
56	D+55	Tutorial (Problem solving session/ class test)	0	1	0	1
57	D+56	Skeletal muscles • Histology.	1	0	0	1
58	D+57	Physiology of muscle contraction	1	0	0	1
59	D+58	Disorder of skeletal muscles	1	0	0	1
60	D+59	Nervous system	1	0	0	1
61	D+60	Tutorial (Problem solving session/ class test)	0	1	0	1
		TOTAL	8	2	0	10
62	D+61	Classification of nervous system	1	0	0	1
63	D+62	Anatomy and physiology of cerebrum, cerebellum, mid brain	1	0	0	1
64	D+63	Anatomy and physiology mid brain.	1	0	0	1
65	D+64	Function of hypothalamus,	1	0	0	1
66	D+65	Tutorial (Problem solving session/ class test)	0	1	0	1
67	D+66	medulla oblongata and basal ganglia.	1	0	0	1
68	D+67	Spinal cord-structure and reflexes	1	0	0	1
69	D+68	Names and functions of cranial nerves.	1	0	0	1
70	D+69	Anatomy and physiology of sympathetic	1	0	0	1
71	D+70	Tutorial (Problem solving session/ class test)	0	1	0	1

		TOTAL	8	2	0	10
72	D+71	Parasympathetic nervous system (ANS)	1	0	0	
73	D+72	Sense organs - Anatomy and physiology of	1	0	0	1
74	D+73	Eye	1	0	0	1
75	D+74	Ear	1	0	0	1
76	D+75	Tutorial (Problem solving session/ class test)	0	1	0	1
77	D+76	Skin	1	0	0	1
78	D+77	Tongue	1	0	0	1
79	D+78	Nose	1	0	0	1
80	D+79	Urinary system	0	1	0	1
81	D+80	Tutorial (Problem solving session/ class test)	1	0	0	
		TOTAL	8	2	0	10
82	D+81	Anatomy and physiology of urinary system	1	0	0	1
83	D+82	Physiology of urine formation	1	0	0	1
84	D+83	Renin - angiotensin system	1	0	0	1
85	D+84	Clearance tests and micturition	1	0	0	1
86	D+85	Tutorial (Problem solving session/ class test)	0	1	0	1
87	D+86	Endocrine system (Hormones and their functions)	1	0	0	1
88	D+87	Pituitary gland	1	0	0	1
89	D+88	Adrenal gland	1	0	0	1
90	D+89	Thyroid and parathyroid gland	1	0	0	1
91	D+90	Tutorial (Problem solving session/ class test)	0	1	0	1
		TOTAL	8	2	0	10
92	D+91	Pancreas and gonads	1	0	0	1
93	D+92	Reproductive system	1	0	0	1

94	D+93	Anatomy of male and female reproductive system	1	0	0	1
95	D+94	Physiology of menstruation	1	0	0	1
96	D+95	Tutorial (Problem solving session/ class test)	0	1	0	1
97	D+96	Spermatogenesis and Oogenesis	1	0	0	1
98	D+97	Pregnancy and parturition	1	0	0	1
		Total	2	0	0	2



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Course Plan

Program- D. Pharm

Semester- I

Course ER20-14P HUMAN ANATOMY AND PHYSIOLOGY – PRACTICAL

Session - 2021-22

S. No.	Day	Subject	L	T	P	Total
1	D Day					
2	D+1	To study the compound microscope.	0	0	1	1
3	D+2	To study the human appendicular skeleton.	0	0	1	1
4	D+3	To study the bones of human skull.	0	0	1	1
5	D+4	To study the thoracic cage of human body.	0	0	1	1
6	D+5	To study the integumentary and special senses using specimen models.	0	0	1	1
7	D+6	To study the nervous system using specimen and models	0	0	1	1
8	D+7	To study the endocrine system using specimens and models.	0	0	1	1
9	D+8	To demonstrate the function of olfactory nerve.	0	0	1	1
10	D+9	To examine the different types of taste.	0	0	1	1

11	D+10	To study the structure and function of digestive system	0	0	1	1
		TOTAL	0	0	0	10
12	D+11	To study the structure and function of cardiovascular system	0	0	1	1
13	D+12	To study the structure and function of urinary system	0	0	1	1
14	D+13	To study the structure and function of reproductive system	0	0	1	1
15	D+14	To study the microscopic examination of skeletal and smooth muscle.	0	0	1	1
16	D+15	To study the microscopic examination of epithelial tissue.	0	0	1	1
17	D+16	To study the microscopic examination of connective tissue.	0	0	1	1
18	D+17	To study the microscopic examination of nervous tissue and cardiac muscle.	0	0	1	1
19	D+18	To determine the amount of hemoglobinemia human blood sample.	0	0	1	1
20	D+19	To find out the bleeding time of our own blood sample.	0	0	1	1
21	D+20	To find out the clotting time of our own blood sample.	0	0	1	1
		TOTAL	0	0	0	10
22	D+21	To estimate the RBC count in our blood by hemocytometer	0	0	1	1
23	D+22	To estimate the WBC count in our blood by hemocytometer	0	0	1	1
24	D+23	Determination of erythrocyte sedimentation rate (ESR)	0	0	1	1
25	D+24	To determine the blood pressure of your body by	0	0	1	1

		sphygmomanometer				
26	D+25	To record the self-body temperature	0	0	1	1
		TOTAL	0	0	5	05
		TOTAL				25