

GAUTAM COLLEGE OF PHARMACY

DISTT. HAMIRPUR 177001 (H.P)

LESSON PLAN

Course: D. Pharmacy 1st Year

Session-2023-2024

Subject Name: Human Anatomy and Physiology

Subject Code: ER20-14T

Total teaching hours allocated by PCI= 75 hrs



















Name of faculty: Neha Rani

Duration of topic: 1 hr

Syllabus Coverage Schedule

CH. NO.	Topic No.	Title of Topic	Learning outcomes	Date	Teaching aids to be used	Remarks
1.	1.	Unit-1 Scope of anatomy and physiology Defination of various terminology	After completion of the topic's the student will understand about scope of anatomy and physiology in Pharmacy field	11/08/2023 17/08/2023	Handwritten notes	
2.	2.	Unit-2 Structure of cell Components and functions	After completion of the topic's the student will understand about components and functions of cell	18/08/2023 19/08/2023	Handwritten notes	
3.	3.	Unit-3 Tissue of the human body Epithelial, connective	After completion of the topic's the student will understand about tissues of human body	21/08/2023 25/08/2023	Handwritten notes	
4.	4.	Muscular and nervous tissues - their subtypes and characteristics		26/08/2023 31/08/2023		

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4.	5.	Unit-4 Osseous system Structure and function of bones of axial and appendicular skeleton	After completion of the topic's the student will understand about structure and function of bones, joints and disorder of joints	01/09/2023 02/09/2023 08/09/2023 11/09/2023	Hand written notes	   
	6.	Classification, types and movement of joint Disorder of joint		14/09/2023 16/09/2023		 
5.	7.	Unit-5 Haemopoietic system Composition and functions of blood Process of hemopoiesis	After completion of the topic's the student will understand about composition and function of blood, process of hemopoiesis function of RBC, WBC and platelets and mechanism of blood clotting	21/09/2023 22/09/2023 25/09/2023 28/09/2023 29/09/2023 5/10/2023	Hand written notes	     
	8.	Characteristics and functions of RBCs, WBCs and platelets Mechanism of blood clotting		06/10/2023 07/10/2023		 
	9.	Importance of blood group		12/10/2023		
6.	10.	Unit-6 Lymphatic system Lymph and lymphatic system, composition, functions and it's formation	After completion of the topic's the student will understand about lymphatic system	13/10/2023 16/10/2023 20/10/2023	Hand written notes	  
	11.	Structure and function of spleen and lymph node		21/10/2023		





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7.	12.	Unit-7 Cardiovascular system Anatomy and physiology of heart Blood vessels and circulation	After completion of the topic's the student will understand about heart, blood vessels and their circulation, ECG and blood pressure	23/10/2023 27/10/2023 30/10/2023 02/11/2023 19/11/2023	Hand written notes	Handwritten notes
	13.	Cardiac cycle and heart sounds, basis of ECG Blood pressure and it's regulation		20/11/2023 25/11/2023 25/11/2023 30/11/2023		Handwritten notes
8.	14.	Unit-8 Respiratory system Anatomy of respiratory organs and their functions Regulation and mechanism of respiration	After completion of the topic's the student will understand about regulation and mechanisms of respiration	01/12/2023 04/12/2023 11/12/2023 14/12/2023	Hand written notes	Handwritten notes
	15.	Respiratory volume and capacities –definitions		16/12/2023		Handwritten notes
9.	16.	Unit-9 Digestive system Anatomy and physiology of the GIT Anatomy and functions of accessory glands	After completion of the topic's the student will understand about physiology of digestion and absorption	19/12/2023 21/12/2023 23/12/2023 28/12/2023 29/12/2023	Handwritten notes	Handwritten notes
	17.	Physiology of digestion and absorption		01/01/2024		Handwritten notes
10.	18.	Unit-10 Skeletal muscle Histology Physiology of muscle contraction	After completion of the topic's the student will understand about physiology of muscle contraction and disorder of skeletal muscle	04/01/2024 05/01/2024 08/01/2024 11/01/2024	PPT notes	Handwritten notes
	19.	Disorder of skeletal muscle		12/01/2024		Handwritten notes

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11.	20.	Unit-11 Nervous system Classification of nervous system Anatomy and physiology of cerebrum, cerebellum, midbrain	After completion of the topic's the student will understand about anatomy and physiology of various parts of nervous system	19/01/2024 29/01/2024 22/01/2024 29/01/2024 01/02/2024	PPT notes	Handwritten notes Handwritten notes Handwritten notes Handwritten notes Handwritten notes
	21.	Functions of hypothalamus, medulla oblongata and basal ganglia Spinal cord structure and reflexes		02/02/2024 05/02/2024 06/02/2024 09/02/2024 15/02/2024		Handwritten notes Handwritten notes Handwritten notes Handwritten notes Handwritten notes
	22.	Names and functions of cranial nerves Anatomy and physiology of sympathetic and parasympathetic nervous system				Handwritten notes Handwritten notes Handwritten notes
12.	23.	Unit-12 Sense organs - Anatomy and physiology of Eye Ear Skin Tongue Nose	After completion of the topic's the student will understand about anatomy and physiology of sense organs	16/02/2024 17/02/2024 22/02/2024 23/02/2024 26/02/2024	Hand written notes	Handwritten notes Handwritten notes Handwritten notes Handwritten notes Handwritten notes
13.	24.	Unit-13 Urinary system Anatomy and physiology of urinary system Physiology of urine formation Renin angiotensin system Clearance tests and micturition	After completion of the topic's the student will understand about physiology of urine formation, RAAS	11/03/2024 14/03/2024 15/03/2024 18/03/2024	Handwritten notes	Handwritten notes Handwritten notes Handwritten notes Handwritten notes
14.	25.	Unit-14 Endocrine	After completion of		Handwritten notes	Handwritten notes

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	system Pituitary gland Adrenal gland	the topic's the student will understand about endocrine system	21/03/2024 22/03/2024		
	26. Thyroid and parathyroid gland Pancreas and gonads		06/04/2024 08/04/2024		
15.	27. Unit-15 Reproductive system Anatomy of male and female reproductive system Physiology of mensuration	After completion of the topic's the student will understand about anatomy and physiology of reproductive system, physiology of mensuration	12/04/2024 19/04/2024 29/04/2024 02/05/2024 04/05/2024	PPT/PDF by online mode	
	28. Spermatogenesis Pregnancy and parturition		06/05/2024		

1. Model question paper given: Yes/No
2. No. of extra Lectures delivered: Yes/No
3. Feedback from student taken: Yes/No

Signature of the subject Teacher

HOD

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Lesson Plan Practical

Subject & code: Human Anatomy and Physiology (practical) & (ER20-14P)














Session August 2023—May 2024

Sr. no	Title of virtual experiments	Date Batch A	Date Batch B	Requirements	Remarks
1.	To study the compound microscope	19/8/2023	10/8/23	Compound microscope	Not done
2.	To study the histology of human tissue	26/8/2023	31/08/23		Not done
3.	To study the anatomy and physiology of human skeleton	2/09/23	14/09/23	Human skeleton	Not done
4.	To study the anatomy and physiology of joints	16/9/23	21/09/23	Chart and model	Not done
5.	To determine the bleeding time of blood	23/9/23	5/10/23	Spirit, cotton, needle, piece of filter paper, stop watch	Not done
6.	To determine the clotting time of blood	30/9/23	12/10/23	Spirit, cotton, needle, piece of filter paper, stop watch	Not done
7.	To identify the blood group group of a given sample	7/10/23	19/10/23	Sprit, needle, antisera (A,B,D), glass slide, compound microscope	Not done
8.	To measure the amount of haemoglobin in the given sample of the blood.	21/10/23	26/10/23	Sprit, cotton, needle, Sahli-Hellige haemoglobinometer, 0.1N HCl, distilled water	Not done
9.	To estimate the Erythrocyte Sedimentation Rate of a given blood sample with the help of Westergren's method	18/11/23	16/11/23	Sprit, cotton, syringe, Westergren's ESR pipette	Not done
10.	To estimate white blood cell count of a blood specimen	25/11/23	23/11/23	Neubaur chamber, WBC pipette, cover slip, WBC diluting fluid, needle, sprit, cotton	Not done
11.	To record a patient blood pressure using a sphygmomanometer	2/12/23	30/11/23	Sphygmomanometer	Not done
12.	To record a patient body temperature using mercury, digital and IR thermometers at various locations	16/12/23	14/12/23	Mercury thermometer, IR-thermometer	Not done

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13.	To record a patient pulse rate/heart rate and respiratory rate	23/12/23	21/12/23	Pulse oximeter	
14.	To record force of air expelled using peak flow meter	30/12/23	28/12/23	Peak flow meter	
15.	To measure height, weight and BMI(Body mass index)	06/01/24	18/01/24	Measuring tape and weighing balance	
16.	To study the anatomy and physiology of Cardiovascular system with the help of chart	09/01/24	01/02/24	Chart, model	
17.	To study the anatomy and physiology of Respiratory system with the help of chart	27/01/24	08/02/24	Chart, model	
18.	To study the anatomy and physiology of Digestive system with the help of chart	03/02/24	15/02/24	Chart, model	
19.	To study the anatomy and physiology of urinary system with the help of chart	17/02/24	29/02/24	Chart, model	
20.	To study the anatomy and physiology of Endocrine system with the help of chart	16/03/24	14/03/24	Chart, model	
21.	To study the anatomy and physiology of Reproductive system with the help of chart	23/03/24	21/03/24	Chart, model	
22.	To study the anatomy and physiology of Nervous system with the help of chart	06/04/24	28/03/24	Chart, model	
23.	To study the anatomy and physiology of Eye with the help of chart	20/4/24	18/04/24	Chart, model	
24.	To study the anatomy and physiology of Ear with the help of chart	04/5/24	02/05/24	Chart, model	
25.	To study the anatomy and physiology of Skin with the help of chart	04/5/24	09/05/24	Chart, model	


Subject Teacher


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