

SARDAR PATEL UNIVERSITY VallabhVidyanagar, Gujarat (Reaccredited with 'A' Grade by NAAC (CGPA 3.25) Syllabus with effect from the Academic Year 2021-2022

P.G.Diploma in Dietetics

Semester-I

Course	PH1CPGDD53	Title of the	Human Physiology-I
Code		Course	Tullian T hysiology-1
Total	04	Hours per	04
Credits of		Week	
the Course			

Course Objectives	• Understanding various tissues and organs of the body and their functions.
	• Different systems of the body and their functions with special reference to the digestion, absorption, transport and uptake of nutrients and elimination of waste products.

Unit	content Description	Weightage %
1	Tissues	20%
	• Structure, physiological properties and function of epithelial tissue.	
	• Structure, physiological properties and function of Muscle tissue.	
	• Structure, physiological properties and function of Nervous tissue.	
	• Structure, physiological properties and function of skeletal tissue (bone and cartilage).	
2	Blood and Circulatory System – Blood and its composition, Functions of each constituent of blood, Blood groups, Blood transfusion and its importance, Coagulation of blood, Blood vessels, Structure and functions of heart, Blood pressure, heart rate, Cardiac output and their regulation	20%
3	Lymphatic System – Lymph, Lymph glands and functions, Spleen – Structure and Functions. Respiratory System – Organs, Structure and Functions, Mechanism of Respiration, Chemical Respiration.	20%
4.	Digestive System – Structure and Functions of Alimentary tract. Functions of various secretions and juices – Saliva, Gastric, Bile, Intestinal, Pancreatic. Functions of enzymes in digestion.	20%



	Digestion of nutrients – Proteins, Fats, Carbohydrates. Common problems of Digestive tract – Vomiting, Constipation, Diarrhea.	
5.	Excretory System – Structure and Functions of (a) Kidney (b) Ureter (c) Bladder (d) Skin. Urine – Formation of urine, Composition of normal and abnormal urine. Role of excretory system in homeostasis, fluid balance, Regulation of body temperature.	20%

6 65	Classroom lectures (Blackboard/Power Point Presentations), Discussion on recent updates with
	related examples.

Evalution Pattern		
Sr. No.	Details of the Evaluation	Weightage %
1.	Internal Written examination	15%
2.	Internal Continuous Assessment in the form of Viva voce, Quizzes,	15%
	Seminars, Assignments, Attendance	
3.	University Examination	70%

Note: Students will have to score a minimum of 40 % to pass the course.

Course Outcomes			
1.	Get knowledge of various physiological changes of different organs system in human body.		

Suggeste	Suggested References:		
Sr. No.	References		
1.	Mukherjee K L (1988, Medical Laboratory Techniques – A procedure manual for routine diagnostic tests, New Delhi: Tata McGraw Hill Publishing Co. Ltd.		
2.	Ross and Wilson: Anatomy and Physiology in Health an Illness, 8 th edition Church Hill Livingstone, N.Y.		
3.	Gyton (1996): Test Book of Medical Physiology, 9 th Edition, Prism Books Pvt. Ltd., W.B Sanders Company, USA.		
4.	Chaurasia B.D (1992), Human Anatomy, ed Singh Indorbir, New Delhi: CBS publishrs& distributers		
5.	Chatterjee, C.C. (1980): Human Physiology: Medical Allied Agency, Calcutta		

