



Children's University
School of Nutrition and Health
Department of Home Science
Gandhinagar

**ACADEMIC
YEAR
2020-2021**

M.Sc.- FN

Year	1	Course Type: Foundation Course Course No: EGFN 105 Course Title: Physiology (Basic)	Credits	4
Semester	1		Hours/wk	4
Objectives		<ol style="list-style-type: none">1. To enable the students to understand the relevant issues and topics of human physiology.2. To enable them to understand the integrated functions of all systems and the grounding of nutritional sciences in physiology.3. To understand general structure and functions of various systems in human body.4. To understand structure and functions of various systems in human body under diseased condition.		
COURSE CONTENT / SYLLABUS - THEORY				
Unit I	Digestive and Excretory System <ul style="list-style-type: none">• Homeostasis• Regulation of Body temperature• Digestion & absorption of food• Structure and function of Kidney• Nephron and Urine formation			
Unit II	Circulatory and Respiratory System <ul style="list-style-type: none">• Blood, blood groups, blood pressure, blood clotting• Structure of Heart and junctional tissues of heart• Cardiac cycle and Types of circulation• Mechanism of respiration• Transport of oxygen and carbon dioxide			

<p>Unit III</p>	<p>Nervous and Endocrine System</p> <ul style="list-style-type: none"> • Types of nervous system • Types of neuron and Reflex action • Transmission of nerve impulse in nerve fiber and synapse • Types of endocrine glands and its functions Pituitary, thyroid, Para thyroid, and adrenal gland • Hormones its action and feedback mechanism
<p>Unit IV</p>	<p>Reproductive System</p> <ul style="list-style-type: none"> • Types of Chromosome, Kariotype • Spermatogenesis and oogenesis • Male and Female reproductive system • Fertilization of ovum and different stages of fetus • Parturition, Stages of labor, Development of breast and secretion of milk
<p>References</p>	
<p>18. Human Physiology by C C Chatterjee 19. Textbook of medical physiology by Guyton 20. Human physiology by Agrawal 21. માનવ શરીર રચના અને શરીર ક્રિયા અને સુતીકા શાસ્ત્ર લેખક દિલીપ મહેતા - 22. જીવ વિજ્ઞાન લેખક સંઘ્યાબેન પરીખ -</p>	