

## NPTEL Video Lecture Topic List - Created by LinuXpert Systems, Chennai

NPTEL Video Course - Biotechnology - NOC:Human Physiology (2025)

Subject Co-ordinator - Prof. Sudip Mukherjee

Co-ordinating Institute - IIT (BHU) Varanasi

Sub-Titles - Available / Unavailable | MP3 Audio Lectures - Available / Unavailable

- Lecture 1 - Human Physiology
- Lecture 2 - Human Anatomy
- Lecture 3 - Introduction to Cells, Structure and Functions of Cell
- Lecture 4 - Ion and Molecular Transport - I
- Lecture 5 - Ion and Molecular Transport - II
- Lecture 6 - Homeostasis and Diseases caused due to Malfunction of Cell Organelles
- Lecture 7 - Introduction to Hematology, Blood Components and Function
- Lecture 8 - Hemostasis
- Lecture 9 - Anticoagulation and Blood related diseases
- Lecture 10 - Blood grouping and Transfusion
- Lecture 11 - Lymph and Lymphatic Circulation
- Lecture 12 - Immune Mechanism of Blood and Lymph
- Lecture 13 - Anatomy of Heart, Heart Diseases and Electrical Activities
- Lecture 14 - Cardiac and Peripheral Circulation
- Lecture 15 - Blood Vessels and Capillary
- Lecture 16 - Anatomical Parts of Lungs and Function
- Lecture 17 - Mechanism of Respiration, Gas Transport
- Lecture 18 - Gas Transport and Lung Volume Capacities
- Lecture 19 - Carbon Monoxide Poisoning, Oximeter and Lung Diseases
- Lecture 20 - Structure and Functions of Endocrine Glands
- Lecture 21 - Glucose Homeostasis, Type I and Type II Diabetes
- Lecture 22 - Cell Therapy for Diabetes and Artificial Pancreas
- Lecture 23 - Blood Glucose Measurement, Therapies for Diabetes
- Lecture 24 - Thyroid Synthesis and Functions
- Lecture 25 - Disease of the Endocrine Gland
- Lecture 26 - Digestive System Anomy and Function
- Lecture 27 - Digestion and Absorption of Carbohydrate
- Lecture 28 - Digestion and Absorption of Proteins
- Lecture 29 - Digestion and Absorption of Lipids

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- Lecture 30 - Digestive Disorder
- Lecture 31 - Bones
- Lecture 32 - Joints and Other Connective Tissues
- Lecture 33 - Different Types of Muscles
- Lecture 34 - Neuromuscular Transmission
- Lecture 35 - Disease Related to Skeletal system
- Lecture 36 - Introduction of Excretory System
- Lecture 37 - Glomerular Filtration
- Lecture 38 - Proximal Convoluted Tubule
- Lecture 39 - Loop of Henles and Other Parts of Nephron
- Lecture 40 - Renal Control of Blood Pressure and Renal Disorder
- Lecture 41 - Male Reproductive Organs
- Lecture 42 - Spermatogenesis
- Lecture 43 - Female Reproductive Organs
- Lecture 44 - Ovarian Cycle - 1
- Lecture 45 - Ovarian Cycle - 2
- Lecture 46 - Menstrual Cycle and Hormonal Regulation
- Lecture 47 - Fertilization and Pregnancy
- Lecture 48 - Contraceptive and IVF
- Lecture 49 - Male Reproductive Health and Disease
- Lecture 50 - Female Reproductive Health and Disease
- Lecture 51 - Introduction to Nervous System
- Lecture 52 - Brain Structure and Function
- Lecture 53 - Structure and Functions of Spinal Cords, Cranial and Spinal Nerves
- Lecture 54 - Neuron and Nerve Structure and Function
- Lecture 55 - Nerve Injury and Repair
- Lecture 56 - Neurotransmission - 1
- Lecture 57 - Neurotransmission - 2
- Lecture 58 - Glial Cells and Blood Brain Barrier
- Lecture 59 - Introduction to Various Sensory Organs and Their Function
- Lecture 60 - Neurological Disorders