

Human Anatomy

Course No.	Title of Course	Credit Hours
ANT-101	Human Anatomy	3(2-1)

Learning Outcomes

After completing the course, the students will be able to:

- Explain about structural components of body.
- Perform blood composition tests for identification of diseases
- Explicate about different systems in the body

SDGs addressed in the course:

SDG # 3 (Health and Well-being)

Teaching Mode:

This portion of contents and will be taught in hybrid learning mode offering a substantial portion of contents and course activities online through learning management system.

Course Content

Theory

Introduction: Grass anatomy, histology; Terminology: Bones and joints, muscles, cartilage, body structure, tissue, cell, organs; Digestive system: Oral cavity, stomach, small and large intestine; Urinary system/ excretory: kidneys, ureter, bladder, urethra; Cardio-vascular system: Heart and pericardium, arteries system, venous system, major arteries and veins; Respiratory system: Upper respiratory, pharynx, larynx, trachea sinuses; Lower respiratory System: Bronchus, lungs, diaphragm; Reproduction system: Male-testis, spermatoc cord, penis, prostate, bulbourethral gland, other glands; Female: Ovaries, fallopian tubes, uterus, vagina, vulva, breast; Endocrinology: Pituitary, thyroid, parathyroid, thymus, adrenal, renal, super renal; Lymphatic system: Lymph, lymph vessel, lymph node; Nervous system: Brain, spinal cord, cranial nerves, brachial plexus, sciatic nerve; Sensory organs: Eyes, ears, taste buds, smell, touch.

Practical:

Four primary tissues of body epithelium tissues: Introduction, types, epithelial glands; Endocrine and exocrine connective tissues: Loose connective tissue, collagenous, elastic and reticular fiber; T-cell of loose cartilage (fibroblast, fat cell, plasma cell, macrophages, mast cell); Blood: Leukocytes, WBC, RBC and platelets; Cartilage and its types; Muscle and its types; Histology: GIT, respiratory, urinary systems, breast, preparation of histological slides. uterus; Microscopy and preparation of histological slides.

Table 4: Week wise lecture plan- Human Anatomy

Week No.	Description
1	Introduction: Gross anatomy, histology
2,3,4	Terminology: Bones and joints, muscles, cartilage, body structure, tissue, cell, organs
5,6	Digestive system: Oral cavity, stomach, small and large intestine;
7,8	Urinary system/ excretory: kidneys, ureter, bladder, urethra;
9	Mid Semester Exams
10	Cardio-vascular system: Heart and pericardium, arteries system, venous system, major arteries and veins;
11	Respiratory system: Upper respiratory, pharynx, larynx, trachea sinuses; Lower respiratory System: Bronchus, lungs, diaphragm
12,13	Reproduction system: Male-testis, spermatic cord, penis, prostate, bulbourethral gland, other glands; Female: Ovaries, fallopian tubes, uterus, vagina, vulva, breast
14	Endocrinology: Pituitary, thyroid, parathyroid, thymus, adrenal, renal, super renal
15	Lymphatic system: Lymph, lymph vessel, lymph node
16	Nervous system: Brain, spinal cord, cranial nerves, brachial plexus, sciatic nerve

17	Sensory organs: Eyes, ears, taste buds, smell, touch
18	Final Semester Exams

Text Book:

1. Gerard, J.T. and T.N. Mark. 2017. Principles of Human Anatomy. 14th Ed. John Wiley and Sons, Inc. New York, USA.

Suggested Readings:

1. Agur, M.R. and F.D. Arthur. 2013. Grant's Atlas of Anatomy. Lippincott Williams and Wilkins, 13th Ed. New York, USA
2. David, C. 2007. Anatomy of Hatha Yoga: A Manual for Students, Teachers and Practitioners, National Banarisdass Publishers (Pvt) Ltd, New Delhi, India.
3. Van De Graaff K.M. 2001. Human Anatomy McGraw-Hill Education, New York, NY, USA.

