

Branch Name:	B.Sc. (MLT/ RIT/ AT/ CCT)
Program Code:	AS101/ AS102/ AS103/ AS104
Course Title:	Human Anatomy-II
Course Code:	1AS1000201
Pre-requisite Course:	

Course Objectives: After successful completion of the course, student will be able to

1. To Develop a Comprehensive Understanding of Human Anatomy
2. To Correlate Anatomy with Clinical Applications
3. To Promote Practical Learning and Skill Development

Teaching and Examination Scheme:

Teaching Scheme (Hours per week)				Evaluation Scheme (Marks)				
Lecture (L)	Tutorial (T)	Practical (P)	Credit	Theory (Marks)		Practical (Marks)		Total (Marks)
				University Assessment	Continuous Assessment	University Assessment	Continuous Assessment	
3	-	2	4	50	50	25	25	150

Course Contents:

Unit No	Topic	Total Hours
1.	The Respiratory System •Parts of upper and lower Respiratory tracts •Structure of nose, nasal cavity, larynx, trachea •Lungs (gross & differences between right & left lung), pleura, Bronchopulmonary segments. (Names & applied aspects)	5
2.	The Excretory System (Urinary System) • Parts of Urinary system, location and gross structure of kidney, ureter, urinary bladder and urethra.	5
3.	The Reproductive System • Parts of male reproductive system, gross structure of testis, vas deferens and epididymis, prostate (gross features & applied aspects). • Parts of female reproductive system, gross structure of uterus, ovary, fallopian tube, mammary gland (gross features & applied aspects).	10
4.	The Endocrine System • Name of all endocrine glands, gross structure, functions& applied aspects of pituitary gland, adrenal gland, thyroid gland and parathyroid gland.	5
5.	The Nervous System • Classification of Nervous System, Types of Neurons. • Introduction to Meninges, names & location of ventricles, CSF- composition, circulation and functions. • Gross features of cerebrum, midbrain, pons, medulla oblongata, cerebellum, name of basal nuclei. • Basics of Blood supply of brain • Names of 12 cranial nerves.	15

6.	The Sensory System - Structure of skin, eye, ear, nose, tongue, olfactory apparatus, Visual & auditory pathways - Alterations in disease	5
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Practical's

Unit No	Topic	Total Hours
I	Pharynx and larynx, Lung	4
II	Kidney, ureter and urinary bladder	4
III	Testis, epididymis, vas deference, prostate	4
IV	Uterus, fallopian tube, ovary,	3
V	Thyroid gland and parathyroid gland	3
VI	Spinal cord and cerebrum	4
VII	Cerebellum	4
VIII	Brain stem and cranial nerves	4

Text Books:

1. Manipl manual for Allied Health Sciences by Dr. Sampath Madhyastha, (3rd edition) by CBS Publishers.
2. Handbook of General anatomy by B D Chaurasia (10th edition) by CBS Publishers.
3. Anatomy for Allied Health Sciences by Renu Chauhan (2nd Edition) by Arya Publishing Company

Reference Books:

1. Human Anatomy by B D Chaurasia (10th edition) Volumes 1– 4 by CBS Publishers.
2. Ross and Wilson Anatomy and Physiology in Health and Illness by Annie Waugh (14th edition) by Elsevier - Health Sciences
3. Gray's Anatomy for Students by Richard L. Drake (5th edition) by Elsevier

List of Open-Source Software/learning website:

1. **Open Anatomy Project**
Link: <https://www.openanatomy.org/>
2. **Visible Body (Free Version)**
Link: <https://www.visiblebody.com/>
3. **BioDigital Human**
Link: <https://www.biodigital.com/>
4. **Anki (with Anatomy Decks)**
Link: <https://apps.ankiweb.net/>
5. **Anatomy Zone**
Link: <https://www.anatomyzone.com/>
6. **Teach Me Anatomy**
Link: <https://teachmeanatomy.info/>
7. **Inner Body**
Link: <https://www.innerbody.com/>

Course Learning Outcomes (CLO):

By the end of this course, students will understand the human body's structure and function, master anatomical terminology, and analyse major systems, cells, and tissues. They will apply this knowledge to clinical and functional contexts, engage in practical learning, recognize anatomical variations, connect anatomy with allied health disciplines, and uphold ethical and professional standards.