

(BM-114) - Anatomy

Course Outline:

Theory:

- 1. Introduction**
 1. Anatomy and its branches
 2. Anatomical positions
 3. Planes
 4. Topography
- 2. Cell Anatomy**
 1. Overview of Cellular Anatomy.
- 3. Extremities (Upper and lower)**
 1. Bones
 2. Muscles
 3. Ligaments
 4. Tendons
 5. Bursae
 6. Reticulae
 7. Capsules
 8. Arteries
 9. Veins
 10. Lymphatic system
- 4. Vertebral Anatomy**
 1. Vertebrae
 2. Pelvic girdle
 3. Spinal cord
 4. Nervous system
- 5. Thorax-Thoracic Viscera**
 1. Surface anatomy
 2. Bones surface musculature
 3. Lungs
 4. Heart
- 6. Abdomen**
 1. Organs location
 2. Structures
 3. Relations and function
- 7. Head & Neck**
 1. Bones
 2. Muscles
 3. Cranial nerves

List of Practicals:

1. Demonstration of Human Skeleton in general.
2. Demonstration of basic structures in Human Anatomy (Skin, Muscles & Other Structures).
3. Demonstration of Anatomical planes & positions.
4. Demonstration of Movements & Motinal Terms.
5. Demonstration & Study of Scapula & Clavicle.
6. Demonstration & Study of Humerus bone.
7. Demonstration of Ulna and Radius.
8. Demonstration of wrist & hand bones.
9. Demonstration of Pelvic bone.
10. Study and demonstration of Femur bone.

11. Study and demonstration of Tibia & Fibula.
12. Demonstration of Foot bones.
13. Demonstration of skull.
14. Demonstration & study of different parts of Vertebral column.
15. Study and Demonstration of different Models.
16. Audio & Visual Demonstration of Human Anatomy.

Suggested Teaching Methodology:

- Lecturing
- Written Assignments Report Writing

Suggested Assessment:

Theory (100%)

- Sessional (20%)
- Quiz (12%)
- Assignment (8%)
- Midterm (30%)
- Final Term (50%)

Laboratory (100%)

Text and Reference books:

1. Medical Terminology: A Living Language (6th Edition) [Bonnie F. Fremgen and Suzanne S. Frucht], ISBN: 978-0134070254
 2. New Biology for Engineers and Computer Scientists [Aydin Tozeren and Stephen W. Byers], ISBN: 978-0130664631
 3. Gerard J. Tortora, Principles Of Human Anatomy, 13th Edition, ISBN: 9781118344996
 4. B. D. Chaurasia, BD Chaurasia's Human Anatomy: Vol. 1, 6th Edition, ISBN: 9788123923307
 5. Frederic H. Martini, Human Anatomy, 8th Edition, ISBN: 9780321883322
 6. Elaine N. Marieb, Human Anatomy, 8th Edition, ISBN: 9780134243818
 7. Michael McKinley and Valerie O'Loughlin, Human Anatomy, 4th Edition, ISBN: 9780073525730
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