Course Title: Human Anatomy and Histology

Course Symbol: 112 Anat.

Course Unit: 10 (3+7)

Learning Format (Instructional Hours):
Lectures: 3 hours per week
Tutorial and Practical: 3X2 per week/students group

Course Description:
This course aims at enhancing study of the basic knowledge of Macroscopic Anatomy (Morphology), General embryology and Development of the face, neck and skull; and Microscopic Anatomy (Histology) for students of college of Dentist.

Objectives:
At the end of this course the students should be able to:
1. Describe the cell structure and the functions of its components.
2. Describe the structure of the basic body tissues.
3. Describe the macroscopic and microscopic structure of the organ system of the human body.
5. Describe the detailed anatomy of the head and neck.
6. Describe the Human general embryology and development of the face, mouth, palate, neck and skull.

Teaching Format:
1. Formal lectures.
2. Tutorial and practical sessions.
**Recommended Text Books:**

1. *The Developing Human.*
   By MOOR and PERSAUD 7th Edition Saunders.

2. *Clinical Anatomy for Medical Students.*
   By RICHARD S. SNELL 7th Edition Lippincott Williams & Wilkins.

3. *Basic Histology.*

   By Elaine N. Marieb Seventh Edition

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**Course Contents:**

(I) **Morphology (Gross Anatomy):**

1. **Introduction to Anatomy:**
   Anatomical terms, Terms of position and movements and body cavities.

2. **Skeletal system:**
   Classifications and functions of bones:
   - Axial skeleton: Main bones of the cranium and face; Vertebral column; intervertebral discs, curvatures of the vertebral column, general features of the vertebra, thoracic cage, sternum and classifications of ribs.
   - Appendicular skeleton, bones of the shoulder girdle (clavicle and scapula).
   - Main and general features of the bones of the upper and lower limbs.

3. **Joints:**
   Classifications of joints; Features of each type.
   Morphological and functional classifications of synovial joints.

4. **Muscular system:**
   Classification of muscles in brief.
   Introduction about skeletal muscles (origin, insertion tendon, and aponeurosis). Types of body movements, important muscles of face, neck thorax, abdomen, and limbs.

5. **Nervous system:**
   Divisions of nervous system into central and peripheral nervous system, Classifications of neurons in brief.
   Different parts of the brain (lobes of the cerebrum and cerebellum, Diencephalon, Brain stem, Spinal cord -Location extent, internal...
structure of segments in brief, cervical and lumber enlargements, cauda equine.
Meninges and C.S.F. in brief and lumber puncture.
Spinal and cranial nerves in brief.
Autonomic nervous system in brief.

6. Circulatory system:

7. Lymphatic System: Lymphatic groups, lymph nodes, lymph glands, and lymph vessels.

8. Respiratory system:

9. Digestive system:
Structure and functions of the digestive system, in brief. Oral cavity, pharynx, esophagus, stomach, small and large intestines. Accessory digestive organs- liver gall bladder pancreas and salivary glands.

10. Urinary system:
Kidneys- location size shape, capsule, structure within the hilum. Parts of the ureter. Urinary bladder, Size, location, shape, trigone, internal and external sphincters. Urethra, differences between male and female urethra.

11. Male reproductive system:
Accessory glands- prostate, seminal vesicles and bulbo urethral glands.

12. Female reproductive system:
Ovaries-size shape and location, hormones produced by the ovaries. Duct system; Fallopian tubes, uterus, parts and layers of the uterus and vagina.

13. Endocrine glands:
Pituitary, Thyroid, Parathyroid, Suprarenal, and Gonads.

14. Head and Neck:
-Skeleton of the head and neck:
Skull, mandible, hyoid bone, and cervical vertebrae.
Scalp: layers, muscles, vessels, and innervations of the scalp.
Face: Muscles, vessels, and innervations of face.
Posterior triangle of the neck.
Anterior triangle of the neck.
Sub occipital triangle.
Cranial cavity:
Meninges, Dural venous sinuses, Emissary veins, and pituitary gland.
Eye lids, lacrimal apparatus.
Orbit: extra ocular muscles, sensory, and motor nerves, ophthalmic vessels.
Temporal and infratemporal regions: muscles of mastication, mandibular and maxillary nerves, and maxillary artery.
Submandibular region: Digastric muscle, submandibular salivary gland, and hyoglossus muscle.
Deep structures infront of the neck:
Thyroid, and parathyroid glands, trachea, esophagus.
Major vessels of the head and neck: Subclavian, common carotid, internal carotid, external carotid arteries, and internal jugular vein.
• Cranial nerves.
• Cervical sympathetic chain.
• Scalene muscles.
• Prevertebral muscles.
• Oral cavity.
• Palate.
• Tongue.
• Nasal cavity and Paranasal sinuses.
• Pharynx.
• Larynx.
• Ear.
• Lymphatic drainage of the head and neck.
• Joints of the head and neck.
• X-ray of the head and neck.

Histology:
1. Introduction.
2. Cell:
• Nucleus: nuclear envelope, nucleoli, chromatin, nuclear matrix.
• Cell division (Mitosis).
• Plasma membrane: specializations of the plasma membrane.
• Cytoplasm: cytoplasmic organelles.

3. Epithelial tissue:
   • Special characteristics of the epithelium.
   • Classification of the epithelium
     o Simple epithelium.
     o Stratified Epithelium.
     o Glandular Epithelium.
• Epithelial membranes.
• Glandular epithelium.
• Intercellular junctions.

4. Connective tissue (C.T.):
   • Common characteristics.
   • Types:
     1- C.T. Proper.
     2- Cartilage.
     3- Bone.

5. Muscle tissue:
   • Types: 1- Skeletal Muscle.
     • 2- Cardiac Muscle.
     • 3- Smooth Muscle.

6. Nervous tissue:
   • Structure and function: Neurons and supporting cells.
   • Structure of a peripheral nerve.
   • Ganglia (Spinal, Autonomic)
   • Nerve endings (Muscle spindle, Motor end plate)

7. Vascular system:
   • Blood vessels:
     Aorta
     Medium sized artery
     Medium sized vein
     Blood capillaries.

8. Lymphatic system:
   • Lymph nodes.
   • Tonsils.
   • Thymus
9. **Respiratory system:**
   - Nasal cavity.
   - Larynx.
   - Trachea.
   - Lung.

10. **Digestive system:**
    - Oral cavity: Tongue, major salivary glands.
    - Stomach: Fundus.
    - Small intestine: Duodenum.
    - Large intestine: Colon.
    - Liver, Pancreas

11. **Endocrine system:**
    - Pituitary gland, Thyroid gland, Parathyroid gland.

(III) **Embryology:**
   - *Introduction* to embryology, male and female reproductive systems.
   - **General embryology:** Gametogenesis, Spermatogenesis, oogenesis, Ovarian cycle, and uterine cycle, fertilization, implantation, segmentation, morula, blastocyst, chorionic vesicle.
   - Early changes in the ectoderm and formation of the neural plate, tube, and crest.
   - Folding of the embryo.
   - Fetal membranes: Chorion, Chorionic villi, Placenta, Yolk sac, Amnion, Allantois, Connecting stalk and umbilical cord.
   - Twinning.
   - **Special embryology:** Formation and derivatives of the pharyngeal arches, clefts and pouches.
     - Development of face, mouth, palate and tongue.
     - Development of the skull bones.

- METHODS OF THE EVALUATION (COURSE 112):
  - Students are assessed by written and practical examinations;
  - Two continuous assessments, a midyear examination, and a final
comprehensive examination.
- In addition students are assessed by 2 Quizzes (one for each semester),
- One oral examination after the third CAE. And before the final examination.
- Practical examinations are two one in the midyear and the other in the final.
- **Examination Schedule and distribution of the marks:**

  **1-In the first semester:**
  - (1) **First quiz:** In the sixth week, *(Wednesday)*, **five marks**.
    - Nine questions (3 Histology + 5 Anatomy).
    - 8 best answer.
  
  - (2) **First continuous assessment examination:** **Ten marks**
    - **Comprehensive,** in the midweek of the semester,
      **Ten marks.**
    - Thirty questions (10 Histology + 20 Anatomy).
    - 30 best answer.
    - The first Continuous assessment Examination *(1st.CAE):* Contains all topic studied from the start of the academic year.

  - (3) **Midyear examination:** *(Second continuous assessment)*
    - 20 marks (15 Written + 5 Practical).
    - **Comprehensive,** in the end of the first semester.
    - Thirty questions (10 histology + 20 Anatomy)
    - 30 best answer.
    - Practical examination: In Anatomy and Histology.
    - In the 2nd CAE: 1/3 of the questions are related to the topics of the 1st CAE; while 2/3 from the topics studied after the 1st CAE.

  **2-In the second semester:**
  - (1) **First quiz:** In the sixth week, *(Wednesday)*, **five marks**.
    - Nine questions (3 Histology + 5 Anatomy).
    - 8 best answer.
  
  - (2) **Third continuous assessment examination:** **10 marks**
    - **Comprehensive,** in the midweek of the semester, **10 marks.**
    - Thirty questions (10 histology + 20 Anatomy).
    - 30 best answer.
• The 3rd Continuous assessment Examination (CAE):
  Contains all topic studied from the start of the second semester

- **(3)Final examination: 40 marks**
  • **Comprehensive**, in the end of the second semester.
  • **40 marks (30 Written + 10 Practical)**.
  • **Sixty** questions (20 histology + 40 Anatomy)
  • **60 best answer**.
  • Practical examination In Anatomy and Histology.
  • **One third** of questions are related to topics of the **first semester**, while the other **2/3** is from topics of the **second semester**.

• **NB.**
• It is **not** allowed to attend any of the above mentioned exams with the **mobile phone**.
• **Policy for Reset Exam for CAE or Quiz:**

  * The absent student should apply an appeal to the chairman of Anatomy Department for the missed examination within **one week**.
  * **Resit examination** will be in the form of **ESSAY WRITTEN EXAM** for the absent student whose appeal was accepted by the Department of Anatomy.
  * No reset exam will be held for the absent student whose appeal was refused by the Department of Anatomy.
  * **Recorded marks** for the missed exam will be: **ZERO**
Practical program for 112

First week

Definition of Anatomy-Subdivision of Anatomy-Anatomical terms; position; planes; and movement.
Types of bones. The Skeleton; Parts, Axial and Appendicular skeleton.
Skull in brief; Vertebral column; (Cervical, Thoracic; Lumber; Sacral; And coccygeal. Thoracic cage; (Ribs; Sternum; Thoracic vertebrae).

**Shoulder girdle:** Clavicle; Scapula; Humerus; Radius, Ulna, and Bones of the Hand.

**Pelvic girdle:** Hip bone, Femur; Tibia, Fibula; and Bones of the Foot

Second week

Types of Muscles; Smooth; Cardiac; and Skeletal muscles. Main character of each type. Arrangement of muscle fibers in skeletal muscles. Attachment of skeletal muscles. Main muscles of the trunk: Pectoralis major; Serratus anterior Latissimus dorsi; Trapezius. Muscles of the anterior abdominal wall; External; Internal oblique; and transverses abdominis.
Main muscles of the upper limb: Arm Biceps brachii, Brachialis; Triceps. Forearm: Flexor and extensors.
Main muscle of the lower limb; Gluteus maximus, quadriceps femoris; Biceps femoris; Tibialis anterior; and posterior. Three compartments of muscles in the leg.

Revision on the body muscles

Third week

Joints; Classification of joints: Fibrous; Cartilaginous; and Synovial, an example of each type.
Movements in each type.
Practical revision Skeleton.
Fourth week

Classification of the nervous system; into central and peripheral. Parts of the brain; Cerebrum; Brain stem, Cerebellum. Covering of the brain, Pia; Arachnoid; and Dura maters. Spinal Cord. Region and number of segment of the spinal cord. Spinal nerves; and cranial nerves.

Revision on the Nervous system.

Fifth week

Revision: Skeleton, Muscles.
Revision: Joints; Nervous system.

Sixth week

Cardiovascular system. Heart: Chambers; and Valves. Epicardium; Myocardium; Endocardium. Arteries; especial types of arteries, examples. Veins and capillaries. Connection between capillaries and veins.

Revision cardiovascular system.

Seventh week

Respiratory system: Nose; Nasopharynx; Larynx; Trachea; Lungs (difference between the two lungs); Pleura (Parietal and Visceral layers).

Revision on the respiratory system.

Eighth week

FIRST CONTINUOUS ASSESSMENT EXAMINATION:

Ninth week

Practical (I): Histology.
Practical (II): Morphology: Urinary system: Kidneys; Ureters; Urinary Bladder; Urethra.
Practical (III): Morphology: Skull (I); Norma Frontalis; Verticalis; and Lateralis.

Tenth week

Practical (I): Histology.
Practical (II): Morphology: Male and Female Genital Systems.
Practical (III): Morphology: Skull (II) Norma Occipitalis; Basalis Externa; and Interna.
Eleventh week
Practical (I): Histology.
Practical (II): Morphology: Scalp: Extent; Layers; Innervations; Blood supply; Occipito-Frontalis muscle.
Practical (III): Morphology: Skull Revision

Twelfth week
Practical (I): Histology.
Practical (II): Morphology: Face; Chief muscles of facial expression (Orbicularis Oculi; Orbital; Palpebral; and lacrimal parts) Buccinator muscle Innervations of the face; motor and sensory; Arteries of the face; Venous drainage of the face, Dangerous triangle of the face; Lymphatic of the face.
Practical (III): Morphology: Revision on the face.

Thirteenth week
Practical (I): Histology.
Practical (II): Morphology: Eye lids and its layers. Lacrimal Apparatus: Lacrimal gland and its parts, Conjunctiva, Lacrimal puncti, lacrimal sac; and nasolacrimal duct.
Practical (III): Morphology: Revision on the eye lids and Lacrimal Apparatus.

Fourteenth week
Practical (I): Histology.
Practical (II): Morphology: Posterior Triangle; Boundaries; Division; Roof; floor; and contents. Nerves: 3 Trunks of Brachial plexus, lesser occipital Great Auricular; Transverse Cervical; Supraclavicular; and Spinal accessory. Arteries: 3rd part of Subclavian artery; suprascapular; and transverse cervical arteries. Subclavian vein; and external jugular vein. Inferior belly of Omohyoid muscle.
Practical (III): Morphology: Clinical importance of the Posterior triangle of the neck.

Fifteenth week
Practical (II): Morphology: Practical Revision
Practical (III): Morphology: Practical Revision

Practical program for 112

Second Semester

First week

Practical (I): Morphology:

Topic: Anterior Triangle of Neck (I).

- **Describe** the boundaries of the anterior triangle, subdivisions of the triangle into 4 triangles (Submental, submandibular, carotid, and muscular).

- **Describe**, (in details) the Submental and submandibular triangles, boundaries, roof, floor and contents.

- **Describe** Sternomastoid muscle, origin, insertion, nerve supply, action and relations.

Practical (II): Morphology:

Topic: Anterior Triangle of Neck (II).

- **Describe**, (in details) the carotid and muscular triangles, boundaries, roof, floor and contents.
- **Describe** the strap muscles, origin, insertion, nerve supply, and action of each.

- **Revise** the formation, and distribution of the Ansa Cervicalis.

**Second week**

**Practical (I): Morphology**

- **Topic: Cranial Cavity (I)**
  - **Describe** the Norma basils Interna, (the anterior, middle, and posterior cranial fossae).
  - **Describe** all the foramina in the three fossae, and revise the structures passing through each of them.
  - **Describe**, the Meninges (Dura, Arachnoid, and Pia matter)
  - **Describe** the Dural folds (Falx, Cerebri. Tentorium Cerebelli, Falx Cerebelli, Diaphragma Sellae and cavum Trigeminale).
  - **Describe** the Dural venous Sinuses:
    - **Single**: Superior & inferior sagittal sinuses, straight sinus, and intercavernous sinuses.
    - **Paired**: Sphenoparietal, superior and inferior petrosal, transverse, sigmoid, occipital, and cavernous sinuses.

**Practical (II): Morphology:**

- **Topic: Cranial Cavity (II)**
  - **Describe** the Hypophysis Cerebri (pituitary gland), position, size, and its connection to the hypothalamus.
  - **Describe** the middle meningeal artery, origin, course, branches, its surface anatomy, and its clinical importance.
- **Describe** the most important emissary veins and its clinical importance.
- **Describe** the Diploic veins.
- **Describe** the intracranial part of the internal carotid artery.

**Third week**

**Practical (I): Morphology:**

- **Topic: Orbit (I)**

  - **Describe** the bony orbit, roof, floor, medial & lateral walls, apex, margins, openings, and fissures.
  - **Enumerate** the contents of the orbit (Eye ball, Muscles extrinsic & intrinsic muscles, Nerves, sensory & motor, vessels, and lacrimal gland).
  - **Describe** the recti muscles (superior, inferior, medial and lateral) the oblique muscles (superior and inferior), their origin, insertion nerve supply and actions.

**Practical (II): Morphology:**

- **Topic: Orbit (II)**

  - **Describe** the sensory orbital nerves: Optic, Ophthalmic division of the trigeminal nerves and its 3 branches (frontal, lacrimal & nasociliary).
  - **Describe** the motor nerves of the orbit (oculomotor, trochlear, & abducent).
  - **Describe** the Ciliary ganglion, its root, position and distributions.
  - **Describe** the ophthalmic artery, origin course, branches, and its clinical importance.
  - **Describe** the ophthalmic veins, their course, and communications.
Fourth week

Practical (I): Morphology.

**Topic: Parotid gland**

**Describe** the position, fascial capsule, surfaces, and relations, of the parotid gland.

**Describe** the structures within the parotid, facial nerve, retromandibular nerve and external carotid artery.

**Describe** how these structures enter and how they leave the gland.

**Describe** blood supply and innervations of the parotid gland.

**Describe** the parotid duct.

Practical (II): Morphology:

**Topic: Osteology of the Mandible.**

**Describe** the body, and ramus of the mandible, surfaces, borders, mandibular foramen, mandibular canal, mental foramen, lingula mylohyoid line and groove.

**Describe** the muscles, and ligaments attached to the mandible.

**Enumerates** the vessels, nerves, and glands related to the mandible and the site of each of these structures.

**Describe** age changes of the mandible.
Revision for: Anterior triangle of neck, Cranial cavity and orbit.

Fifth week

Practical (I): Morphology:

Topic: Temporal & Infratemporal fossae (I).

*Describe* the boundaries of the temporal and infratemporal fossae, and its communications.

*Describe* the temporal fascia, muscles of mastication (Temporals Masseter Medial and lateral Pterygoid), origin, insertion, nerve supply, and actions.

Practical (II): Morphology:

Topic: Temporal & Infratemporal fossae (II).

*Describe* the maxillary & Mandibular nerves, their course, relations and distributions.
*Describe* the chorda tympani.
*Describe* the otic ganglion, position, relations, and branches.
*Describe* the maxillary artery, origin, course, parts, and branches.
*Describe* the pterygoid plexus of veins, positions, and communications.
Sixth week

Practical (I): Morphology:

**Topic: Submandibular region (I).**

**Describe** the origin, insertion, nerve supply and actions of, Digastric (anterior & posterior bellies) & Stylohyoid muscles.

**Describe** the relations of the anterior & posterior bellies of digastric muscle.

**Describe** the submandibular salivary gland, its position, extent, parts (superficial and deep) surfaces, relations, blood supply, and its innervations.

Practical (II): Morphology:

**Topic: Submandibular region (II).**

**Describe** the origin, insertion, nerve supply, and actions of the Mylohyoid, Hyoglossus, Genioglossus, Geniohyoid, and Styloglossus muscles.

**Describe** the Sublingual salivary gland position, relations, and its innervations.

**Describe** the origin, course, branches of the lingual and facial arteries.
Seventh week

Practical (I): Morphology:

Topics: Thyroid and Parathyroid Glands.

Describe the position, shape, capsule, lobes, surfaces, Isthmus, relations, blood supply, nerve supply, and lymphatic drainage of the thyroid.

Describe the nerves in danger during thyroidectomy operation and the effects of its lesions.

Describe the cervical part of the trachea, beginning, termination, relations, and blood supply.

Describe the cervical part of the esophagus, beginning, termination, relations, and its blood supply.

Practical (II): Morphology:

Topics: Cervical Vertebrae and Hyoid bone.

Describe the general features of cervical vertebrae, atlas, axis, typical, and seventh.

Describe the articulation between, atlas and occipital condyles of the skull.

Describe the articulation between atlas and axis.

Describe the ligaments of Atlas (Transverse, anterior and posterior atlanto-occipital membranes).
Describe the ligaments related to the axis (Apical, Alar, upper end of the posterior longitudinal ligament, and membrana tectoria).

Describe the part of the Hyoid bone (body, two lesser cornu and two greater cornu).

Enumerate the structures attached to the different parts of the hyoid bone.

Eighth week

Practical (I): Morphology:

Topic: Last four Cranial nerves.

Describe the superficial attachment (from the medulla oblongata), course, type of fibers, and distributions of the glossopharyngeal, Vagus, accessory, and hypoglossal nerves.

Discuss the effect of lesion (of any) of the last 4 cranial nerves, and how you test the integrity of these nerves?

Practical (II): Morphology:

Topics: Scalene muscles, cervical plexus, and Cervical part of sympathetic chain.

Describe the origin, insertion, nerve supply, relation, and actions of the scalene muscles (Scalenus, anterior, medius, and posterior).

Describe the formation, position, and branches (sensory & motor) of the cervical plexus.
Describe the cervical part of the sympathetic chain (superior, middle, and inferior ganglia), position, relations, and distributions of each.

Ninth week

THIRD CONTINUOUS ASSESSMENT EXAMINATION:

Wednesday 10:00 am
Tenth week

Practical (I): Morphology:

Topic: Major Vessels of Head & Neck.

Describe the Subclavian artery, origin, course, surface anatomy, parts, relations, and branches of each part.  
Describe the common, external, and internal carotid Arteries, their origin, course, surface anatomy, relations and branches.  
Describe the formation, surface anatomy, tributaries, and relations of the internal jugular vein.  
Revise the formation, and contents of the carotid sheath.

Practical (II): Morphology:

Topics: Oral cavity, Palate, Tongue, and Pharynx.  
Describe the two parts of the oral cavity (vestibule and mouth cavity proper).  
Describe the two types of teeth (deciduous and permanent) and the time of its eruptions.  
Describe the bone forming the bony palate, the muscles of the soft palate, origin, insertion, nerve supply, and actions of each.
Describe the parts of the tongue (oral and pharyngeal) its surfaces (dorsal and inferior), its muscles (intrinsic and extrinsic) origin, insertion, actions, nerve supply (motor and sensory), and blood supply.

Describe the Pharynx, its extent, layers, parts (Nasopharynx, oropharynx, and Laryngeopharynx or Hypopharynx), muscles of the pharynx (superior, middle, and inferior constrictors, salpingopharynx, palatopharyngeus, and Stylopharyngeus) origin, insertion nerve supply, and actions. Pharyngeal plexus.

Eleventh week

Practical (I): Morphology:

Topics: Nasal Cavity & Paranasal Sinuses, and Lymphatics of Head & Neck

Describe external nose, nasal cavity, roof, floor, medial, Lateral walls, vestibule, olfactory, respiratory regions, nasal conchae (superior, middle, and inferior), nasal Meatuses (superior, middle, and inferior), and sphenoeothmoidal recess.

Describe the Paranasal sinuses (maxillary, ethmoidal, Sphenoidal, and frontal), position, function, Drainage, lining, and its nerve supply.

Describe the maxillary sinus in details. Describe the Lymphatics of the head and neck.

Practical (II): Morphology:

Topic: Larynx

Describe the laryngeal skeleton; single: Thyroid, Cricoid, and Epiglottis; paired: Arytenoids, Corniculat and Cuneiform.
Describe the laryngeal cavity; vestibule, ventricle, infraglottic regions.
Describe the vocal folds (true and false) position, formation and function.
Describe the ligaments and membranes of the larynx.
Describe the muscles of the larynx, origin, insertion, actions, and nerve supply.
Describe sensory and motor innervations of the larynx and nerve injury of larynx.
Describe the blood supply and Lymphatics of the larynx.

Twelfth week

Practical (I): Morphology:

Topic: Tempromandibular joint.

Describe the articular parts, attachment of the capsule, Ligaments outside the capsule, the intra-articular disc, movement, muscles acting, nerve supply, and blood supply of the TMJ. Describe the Atlanto-Occipital and Atlanto-Axial joints, type, articular parts, movement, and ligament related to these joints.

Practical (II): Morphology:

Topics: Radiology of Head & Neck.

Lymphatic of Head & Neck.
Thirteenth week

Practical (I): Morphology:

Practical revision

Practical (II): Morphology:

Practical revision

Course Coordinator
112 Dental

Chairman, Anatomy Department

Dr. Saeed Abuel Makarem

Dr. Musaed Al Fayez
Practical program for 112

Second Semester

First week

Practical (I): Morphology:

**Topic:** Anterior Triangle of Neck (I).

- **Describe** the boundaries of the anterior triangle, subdivisions of the triangle into 4 triangles (Submentral, submandibular, carotid, and muscular).

- **Describe** (in details) the Submental and submandibular triangles, boundaries, roof, floor and contents.

- **Describe** Sternomastoid muscle, origin, insertion, nerve supply, action and relations.

Practical (II): Morphology:

**Topic:** Anterior Triangle of Neck (II).

- **Describe**, (in details) the carotid and muscular triangles, boundaries, roof, floor and contents.

- **Describe** the strap muscles, origin, insertion, nerve supply, and action of each.

- **Revise** the formation, and distribution of the Ansa Cervicalis.