## Syllabus of Human Anatomy . Second year students **Neuroanatomy:** Theory = 30 lec Practice = 7-8 lab **Topics** theory \*\* Introduction 1 hr Nerve cells. **Definition** types of cells types of neurons, functions, terms related to neurology. Nervous tissue 1 hr Classification. Parts of central nervous Neuroglial cells ,types ,functions \*\*Meninges and dural folds: 1 hr **Definition.** Parts , functions , **Blood supply**, nervous supply **Applied anatomy** \*\* Cranial venous sinuses 1 hr **Definition.**, Classification Termination, direction of blood flow in cranial venous sinuses

1 hr

**Communication**, clinical notes

\*\* Divisions of brain

Forebrain			
Midbrain			
Hindbrain			
Cerebral hemispheres: 1 hr			
Defintion.			
External features . lobes			
Cerebral cortex 1 hr			
Functional area of cerebral hemispheres			
Applied anatomy			
Internal structure of cerebral hemisphere 1 hr			
Fibers . types			
*Basal ganglia 1 hr			
types, arrangement			
functions			
Ventricles of brain 1 hr			
types . relation and boundaries			
functions			
contents			
Brain stem 1 hr.	1 hr.		
definition, parts, functions and relation			
pons 1 hr	1 hr		
definition, gross appearance,			
internal structure			

# function and related structures. \*\* Medulla oblongata 1 hr Definition, gross appearance, Internal structure, function, related structures. \*\* Hindbrain 2 hr \* \*cerebellum **Definition**, gross appearance **Anatomical classification Functional classification** Parts, internal structure, function **Clinical notes related Diseases related** \*\*Blood supply of the brain **Arteries involved** Veins involved \*\* Circle of Willis 1 hr **Communications** Clinical notes. \*\* Cerebrospinal fluid 1 hr **Definition, Circulation Absorption**

**Function** 

### Clinical notes related to cerebrospinal fluid \*\* Spinal cord; 2 hr **External features** Ligaments related **Mechanism of support** Relation of spinal cord to vertebral column. **Function** Clinical notes \* Internal structure \*\* Tracts of spinal cord 1 hr \*\* Pyramidal and extrapyramidal tract 1 hr \*\* pathway of pain and temperature . 1 hr \*\* Pathway of touch 1 hr \* \*Pathway proprioception 1 hr **Differences between these tracts** Clinical notes 6 hr \*\* Cranial nerves: **Definition**, types **Arrangement** • Each cranial nerve, • origin insertion pathway • area of supply

function

- Lesions related
- \* \* Autonomic nervous system;

1 hr

Definition, classification, differences, clinical notes

#### **HEAD AND NECK**

Theory = 16

Practicle = 10

**Lecture 1: Scalp** 

Introduction

Layers of scalp

Skin

Superficial fascia

Epicranial aponeurosis & Occipito Frontalis muscle

Layer of avascular loose areolar tissue & subaponeurotic space

Periosteum "Pericranium"

**Blood supply of the Scalp** 

**Arterial supply** 

Venous drainage

Lymphatics

Nerve supply of the Scalp

**Lecture 2: The Face** 

Introduction

Layers of the face

Skin

Muscles

**Subcutaneous tissue** 

#### Deep fascia

**Sweat & sebaceous glands** 

**Mucocutaneous junction** 

**Mucus & Salivary glands** 

**Blood supply of the face** 

**Arterial supply** 

Venous drainage

Lymphatic drainage

Sensory innervations of the face

Motor innervations of the face

Muscles of facial expression

**Embryology** 

Morphology

Arrangement

**Muscles around the Orbit** 

Muscles around the Nose

**Muscles around the Mouth** 

Sensory innervations of the Face Trigeminal nerve (V)

Ophthalmic division: Va Maxillary division: Vb

Mandibular division: Vc Greater auricular nerve: C2

**Lecture 3: Parotid gland** 

Introduction

Surfaces
Lobes
Superficial lobe
Deep lobe
Glenoid lobe
Parotid fascia
Accessory gland
Structures within the Parotid gland Superficial relation of the gland
Deep relation "The bed of the gland"
Parotid Duct
Blood supply
Arterial supply
Venous drainage
Lymphatics
Nerve Supply
Facial nerve ; Extra cranial course
Branches of the facial nerve Facial palsy & Types of facial nerve injuries
Lecture 4 & 5: Oral Cavity The mouth
The vestibule
The mouth proper:
Gingiva (gum)

The Teeth
The Palate
Introduction
Hard palate
Soft palate,
Muscles of the soft palate
Action of palatal muscles
Nerve supply
<b>Blood supply</b>
The Tongue
Introduction
Muscles of the tongue
<b>Blood supply of the tongue</b>
Arterial supply
Venous drainage
Lymphatic drainage
Nerve supply
<b>Function of the tongue</b>
Submandibular gland
Submandibular duct
Relations
Superficial part
Deep part

**Arterial supply** Venous drainage Lymphatics **Nerve supply** Sublingual gland **Relations** Muscles of the floor of the mouth **Lecture 6: Muscles of mastication** Introduction Masseter muscle **Temporalis muscle** Lateral pterygoid muscle Medial pterygoid muscle **Buccinator** Lecture 7: The neck **Boundaries** Deep cervical fascia: (fascia of the neck) Investing layer. Pretracheal fascia. Prevertebral fascia. Carotid sheath. Tissue spaces of the neck. **Lecture 8: Anterior triangle of the neck** 

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Subdivisions of the anterior triangle

**Submental triangle** 

Digastric (Submandibular) triangle

**Carotid triangle** 

Muscular triangle

Infra hyoid muscles

Action of infra hyoid muscles

Digastric muscle

**Lecture 9: Posterior triangle of the neck** 

Introduction

Contents of the posterior triangle

Lymph nodes

**Accessory nerve** 

**Cervical plexus** 

**Muscular branches** 

**Cutaneous branches** 

Sternocliedomastoid muscle

Lecture 10: Thyroid gland

Introduction

**Thyroid Lobe** 

Pyramidal lobe

Accessory thyroid gland

**Blood supply** 

**Arterial supply** 

Venous return

Lymphatics

**Nerve Supply** 

Parathyroid glands

Points of surgical importance

**Lecture 11: The Larynx** 

**General description** 

Structure

Thyroid cartilage

Cricoid cartilage

**Epiglottic cartilage (Epiglottis)** 

Arytenoid cartilage

Interior of the larynx

**Blood supply** 

Lymphatics

Movements of the larynx

**Function of the larynx** 

**Lecture 12: The Pharynx** 

The wall of the pharynx

**Superior constrictor** 

Middle constrictor

**Inferior constrictor** 

Salpingopharyngeus, Stylopharyngeus & Palatopharyngeus

**Functions of muscles of the pharynx** 

**Relation of the structures to the pharynx** 

The Interior of the pharynx

Nasophary

**Oropharynx** 

Laryngopharynx

**Blood supply** 

**Nerve supply** 

Lymphatic drainage

**Lecture 13: The Nose** 

The external nose

Skeleton of the nose

The nasal cavities

roof

The floor

The medial wall The lateral wall

**Nerve supply** 

**Blood supply** 

Lymphatic drainage

Lecture 14 & 15: The Ear

The External Ear

The Middle **Lateral Wall** Medial Wall **Anterior Wall Posterior Wall** The Roof The Floor Ossicles of the middle ear **Auditory tube (Eustachian tube)** The Internal Ear **Bony labyrinth** Membranous labyrinth Lecture 16: Lymphatics of the head & neck Lymph nodes of the head & neck Superficial circular chain Vertical chain Deep circular chain Lymphatic drainage of the face Abdomen 20 lectures **Anterior abdominal wall** Theory = 5**Practicle= 2** Lecture 1: General Surface land marks of anterior abdominal wall

Abdominal lines and planes, Vertical lines, Horizontal planes, Trans pyloric plane, Subcostal plane, Intertubercular plane, Regions of anterior abdominal wall

Lecture 2: Anterior abdominal wall:

Skin:Texture & Natural cleavage lines, Nerve supply, Blood Supply And Lymphatics

Superficial fascia & divisions

Deep fascia

Muscles of anterior abdominal wall

\*External oblique(Superficial inguinal ring, Inguinal ligament, Lacunar Ligament & Pectineal ligament)

\*Internal oblique (Conjoint tendon)

\*Rectus abdominis (rectus sheath, Formation & its three distinct arrangements)

\*Pyramidalis

\*Cremaster muscle

Lecture 3: Anterior abdominal wall

Function of abdominal muscles, Neuro vascular plane of abdominal muscles

Deep lymphatics of anterior abdominal wall

Transversalis fascia

Extraperitoneal fat

Inguinal Canal: Walls, Deep inguinal ring, Functions of Inguinal canal and Mechanics of inguinal canal

**Spermatic Cord** 

Coverings of the spermatic cord

#### Structures within the spermatic cord

Lecture 4: Posterior abdominal wall

Formation of posterior abdominal wall

Muscles of posterior abdominal wall

\*Psoas major muscle

\*Psoas minor muscle

\*Quadratus lumborum

Facial lining of abdominal wall, Lumber fascia

Lecture 5:

**Abdominal Hernia** 

Definition, Common types of abdominal hernia

\*Indirect Inguinal hernia

\*Direct Inguinal hernia

\*Femoral Hernia

\*Umbilical hernia (Congenital & Acquired)

\*Epigastric hernia

\*Separation of recti

\*Incisional hernia

\*Hernia through linea semilunaris "Spigelian hernia"

\*Lumber hernia "Hernia through Petit's triangle"

\*Internal hernia

### **Abdominal cavity**

Theory: 15 lec	Prac. : 6-8 lab
Peritoneum:	2 hr
Definition, classification	ı, types
lesser sac (omental burs	sa)
definition, classification	ı ,types
** greater sac	
Clinical notes, Blood su	apply , Nerve supply and lymphatics
** Gastrointestinal trac	t
Esophagus	1 hr
Abdominal esophagus,	structure, length, Constrictions ,blood supply ,
nerve supply , lymphati	cs and Clinical notes
** stomach:	2 hr
'	ation, boundaries, parts, Blood supply, nerve inction and Clinical notes and diseases related.
** small intestine;	
** duodenum	1 hr
Structure, parts , relation, (	on and boundaries , blood supply, nerve supply and Clinical notes
* jejunum and ileum	1 hr
Differences between the nerve supply ,lymphatic	em , gross appearance ,relation , blood supply, es and function
* large intestine	1 hr
Differences between la	rge and small intestine
Cecum	

Parts, description, relation, boundaries, blood supply nerve supply,					
iliocecal valve					
* appendix 1 hr					
structure, shape ,types ,relation , blood supply, nerve supply and lymphatics					
* ascending colon 1 hr					
descending colon					
transverse colon					
parts , description, relation ,blood supply , nerve supply and lymphatic					
*Blood supply of abdomen. 1 hr					
Branches of abdominal aorta					
celiac trunk, superior mesenteric artery, inferior mesenteric artery					
Venous drainage of abdomen					
Porto caval anastomosis, Definition, communications					
* liver 1 hr					
Gross appearance. Relation, divisions, boundaries, Blood supply					
, nerve supply, lymphatics and Clinical notes					
* gall bladder 1 hr					
Structure, relation , blood supply ,nerve supply ,lymph nodes , Clinical notes					
* pancreas 1 hr					
Structure, relation, parts, blood supply, nerve supply and lymphatics					
* spleen : Structure, relation , blood supply , nerve supply function and relation					

* kidney	1 hr				
Structure , internal structusupply , clinical notes	ure , parts , relation .blood sup	ply, nerve			
* suprarenal gland					
Structure, relation, Blood supply , nerve supply					
* ureters	1 hr				
normal constrictions, struct	ture, blood supply,				
nerve supply and lymphatics , Functions , Clinical notes.					
Pelvis: Theory Orientation of pelvis,	5 1 hr	prac. 2 lab			
False and true pelvis, structudiaphragm	ures of pelvic wall, contents of	pelvic			
* pelvic viscera in male	1 hr				
Sigmoid colon ,rectum , urinary bladder					
* Male genital organs	1 hr				
* pelvic viscera in female	1 hr				
sigmoid colon ,rectum ureters , urinary bladder, pelvic fascia					
*perineum	1 hr				
nerves, sacral plexuses , lumbar plexuses , autonomic nerves, arteries of pelvis ,sex differences of pelvis					