

## Musculo-Skeletal System and Skin

*Lectures and Laboratory Sessions Outline*

*Course number: 500282*

*Second Semester 2020/2021*

*5 Credit hours*

Subject	Lecture number	Topic
<b>Physiology</b>	1	Functions of excitable membranes
	2	Introduction to Muscle Physiology
	3	Mechanics of contraction
	4	Excitation – contraction coupling
<b>Pathology</b>	1	Basic structure and function of the bone
	2	Congenital diseases of bone and cartilage
	3	Metabolic disorders of bone
	4	Paget disease of bone
	5	Fractures
	6	Osteonecrosis
	7	Osteomyelitis
	8	Bone tumors and tumor-like conditions
	9	Arthritis
	10	Joint tumors and tumor-like conditions/ Soft tissue tumors
<b>Microbiology</b>	1	Introduction
	2	Viral skin lesions
	3	Fungal skin lesions
	4	Bacterial skin lesions
	5	Diabetic foot
	6	Osteomyelitis
	7	Muscle infections
	8	Septic arthritis
	9	Clinical vignettes
<b>Pharmacology</b>	1	Drugs For Skin Disease-1
	2	Drugs For Skin Disease-2
	3	Skeletal Muscle Relaxant-1
	4	Skeletal Muscle Relaxant-2
	5	Antiinflammatory Drugs-1
	6	Antiinflammatory Drugs-2
	7	Drugs For Gout
<b>Anatomy</b>	1	Skull-1 (Norma frontalis, lateralis, occipitalis and verticalis)
	2	Skull-2 (Norma basalis externa and interna)
	3	General concepts of head and neck anatomy
	4	Scalp 1 (Layers, innervations and blood supply)
	5	Scalp 2 (Layers, innervations and blood supply)
	6	Face (Muscles of facial expression, innervations and blood supply)
	7	Cranial cavity-1 (Meninges, dural folds and sinuses)
	8	Cranial cavity-2 (Meninges, dural folds and sinuses)
	9	Ear-1 (External and middle ear)
	10	Ear-2 (Inner ear)
	11	Orbit-1 (Orbital walls and extraocular muscles)
	12	Orbit-2 (Nerves and blood vessels of the orbit, eyelids and lacrimal apparatus)
	13	Eyeball-1 (Coats and contents)
	14	Eyeball-2 (Histology of retina)
	15	Temporal and infratemporal fossa-1
	16	Temporal and infratemporal fossa-2
	17	Neck-1 (Fascial layers of the neck, compartments and spaces)

		Lymphatic drainage of head and neck)
	18	Neck-2 (Muscles and cervical plexus)
	19	Neck-3 (Triangles, borders and contents)
	20	Extracranial course of cranial nerves/ Clinical case presentations
	21	Vertebral column
	22	Thoracic cage and intercostals muscles
	23	Diaphragm
	24	Muscles of the back
<b>Embryology</b>	1	Craniofacial development/ Branchial arches
	2	Craniofacial development/ Face and palate
<b>Histology</b>	1	Skin histology 1
	2	Skin histology 2
<b>PBL</b>	1	Extra and intracranial hematoma- A case study approach
	2	Clinical applications/ the vertebral column- A case study approach
<b>Physiology lab</b>	<b>Lab 1</b>	Simple muscle twitch, Summation, Treppe phenomenon, Tetanization and Fatigue
<b>Histology lab</b>	<b>Lab 1</b>	Skin histology
<b>Anatomy lab</b>	<b>Lab 1</b>	Norma frontalis, lateralis, occipitalis, verticalis and basalis interna of skull
	eLab 1	Lab practical- Normas of the skull
	<b>Lab 2</b>	Norma basalis externa of skull Mandible Foramina for cranial nerves Temporal and infratemporal fossae
	eLab 2	Lab practical- Norma basalis externa and Mandible
	<b>Lab 3</b>	Muscles of Face Muscles of Mastication Ear Dural folds and sinuses
	eLab 3	Lab practical-Cranial cavity 1&2 Lab practical- Ear Lab practical- Muscles of the face and muscles of mastication
	<b>Lab 4</b>	Orbital walls, foramina and fissures Extra ocular muscles Eyeball dissection
	eLab 4	Lab practical -Orbital walls, foramina and extraocular muscles Lab practical-Sheep eyeball dissection
	<b>Lab 5</b>	Muscles of the neck Vertebral column Thoracic cage Diaphragm Intercostals muscles
	eLab 5	Lab practical- Temporal and Infratemporal fossae Lab practical- Muscles of the neck Lab practical- Muscle of the back, vertebral column, Thoracic cage, Diaphragm, Intercostals muscles

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