

**Musculo-Skeletal System and Skin**  
*Lectures and Laboratory Sessions Outline*  
 Course number: 0500281  
 Second Semester 2025/2026  
 6 Credit hours

Subject	Number	Topic
<b>Physiology</b>	1	Action potential and neuromuscular junction
	2	Excitation – contraction coupling
	3	Skeletal muscle contraction-1
	4	Skeletal muscle contraction-2
<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
	11	Skin and skin adnexal tumors
	12	Cases discussions
<b>Microbiology</b>	1	Classification of Skin Infections, Skin Defense and Skin Microbiome
	2	Cutaneous Infections That Manifest in Maculopapular Rashes (1)
	3	Cutaneous Infections That Manifest in Maculopapular Rashes (2)
	4	Cutaneous Infections that Manifest in Papules, Plaques and Patches
	5	Cutaneous Infections that Manifest in Vesicles, Bullae, and Purulent Lesions
	6	Cutaneous Infections that Manifest in Petechial, Hemorrhagic, Ulcerative, and Necrotic Lesions
	7	Infections of the Bones and Joints
	8	Aspects in the Diagnosis of Musculoskeletal and Skin Infections
<b>Pharmacology</b>	1	Anti-inflammatory Drugs-1
	2	Anti-inflammatory Drugs-2
	3	Skeletal Muscle Relaxant-1
	4	Skeletal Muscle Relaxant-2
	5	Drugs For Skin Disease-1
	6	Drugs For Skin Disease-2
	7	Drugs For Gout
	8	Antiviral drugs for skin
<b>Anatomy</b>	1	Pectoral and back muscles/ Dr. Ahmed Salman
	2	Shoulder region
	3	Axilla and brachial plexus
	4	Arm and cubital fossa
	5	Forearm (flexor compartment)
	6	Forearm (extensor compartment)
	7	The hand
	8	Nerves of UL 1
	9	Nerves of UL 2
	10	Blood vessels of UL
	11	Joints of the UL

	12	Lumbar and sacral plexus/ Dr. Maha ElBeltagy
	13	Anterior and medial compartments of the thigh
	14	Femoral triangle, femoral sheath and subsartorial canal
	15	Gluteal region and posterior compartment of the thigh
	16	Anterior, lateral and posterior compartments of the leg
	17	The foot 1
	18	Nerves of the lower limb
	19	Joints of LL
	20	Radiology of LL
	21	Skull/ Dr Ahmed Salman
	22	Scalp 1 (Layers, innervations and blood supply)
	23	Face : Muscles of facial expression and facial nerve
	24	Face (sensory innervations and blood supply)
	25	Temporal fossa , Infratemporal fossa and Muscles of mastication and TMJ
	26	Mandibular nerve
	27	Cranial cavity-1 (Meninges, dural folds and sinuses)
	28	Cranial cavity-2 (venous sinuses ,arteries )
	29	Neck , fascia and Muscles
	30	Vessels of the neck
	31	Nerves of the neck
	32	Triangles of the neck 1
	33	Triangles of the neck 2
	34	Orbit-1 (Orbital walls and extraocular muscles)
	35	Orbit-2 (Nerves and blood vessels of the orbit, eyelids and lacrimal apparatus)
	36	Ear-1 (External ,middle ear and inner ear )
<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>Clinical</b>	1	Clinical 1 /Rheumatology department
	2	Clinical 2/ Orthopedic department
<b>Physiology lab</b>	<b>Lab 1</b>	Simple muscle twitch, Summation, Treppe phenomenon, Tetanization and Fatigue
<b>Anatomy lab</b>	<b>Lab 1</b>	Norma frontalis, lateralis, occipitalis, verticalis
	<b>Lab 2</b>	Norma basalis interna and basalis externa of skull Mandible Foramina of skull
	<b>Lab 3</b>	Face, neck ,Orbital eye and ear
	<b>Lab 4</b>	Upper limb
	<b>Lab 5</b>	Upper limb
	<b>Lab 6</b>	Lower limb
<b>Histology Lab</b>	<b>Lab 1</b>	Histology of the Skin Lab