

Musculo-Skeletal System and Skin
Lectures and Laboratory Sessions Outline
 Course number: 0500281
 Second Semester 2024/2025
 6 Credit hours

Subject	Number	Topic
Physiology	1	Action potential and neuromuscular junction
	2	Excitation – contraction coupling
	3	Skeletal muscle contraction-1
	4	Skeletal muscle contraction-2
Pathology	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
Microbiology	1	Classification of Skin Infections, Skin Defence 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
Pharmacology	1	Antiinflammatory Drugs-1
	2	Antiinflammatory 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
Anatomy	1	Skull-1 (Norma frontalis, lateralis, occipitalis and verticalis)
	2	Skull-2 (Norma basalis externa and interna) and mandible
	3	Scalp 1 (Layers, innervations and blood supply)
	4	Face and Muscles of facial expression
	5	Face (innervations and blood supply)
	6	Parotid gland
	7	facial nerve
	8	Temporal fossa and Infratemporal fossa
	9	Muscles of mastication and TMJ
	10	Mandibular nerve
	11	Cranial cavity-1 (Meninges, dural folds)
	12	Cranial cavity-2 (venous sinuses ,arteries)
	13	Neck , fascia ,Muscles
	14	Vessels of the neck
	15	Nerves of the neck

	16	Triangles of the neck 1
	17	Triangles of the neck 2
	18	Orbit-1 (Orbital walls and extraocular muscles)
	19	Orbit-2 (Nerves and blood vessels of the orbit, eyelids and lacrimal apparatus)
	20	Ear-1 (External middle ear and inner ear)
	21	Pectoral and scapular region
	22	Axilla and brachial plexus
	23	Arm and cubital fossa
	24	Forearm (flexor compartment)
	25	Forearm (extensor compartments)
	26	The hand
	27	Nerve injury of UL 1
	28	Nerve injury of UL 2
	29	Anterior and medial compartments of the thigh
	30	Femoral triangle, femoral sheath and subsartorial canal
	31	Gluteal region and posterior compartment of the thigh
	32	Popliteal fossa
	33	Anterior, lateral and posterior compartments of the leg
	34	The foot 1
	35	The foot 2
	36	Nerve injury of LL
	37	Muscles of the back and vertebral column /Clinical
Embryology	1	Craniofacial development/ Branchial arches
	2	Craniofacial development/ Face and palate
Histology	1	Skin histology 1
	2	Skin histology 2
Clinical	1	Extra and intracranial hematoma
	2	Spine disorders/Muscles of the back
Physiology lab	Lab 1	Simple muscle twitch, Summation, Treppe phenomenon, Tetanization and Fatigue
Anatomy lab	Lab 1	Norma frontalis, lateralis, occipitalis, verticalis
	Lab 2	Norma basalis interna and basalis externa of skull Mandible Foramina of skull
	Lab 3	Face, neck ,Orbital eye and ear
	Lab 4	Upper limb
	Lab 5	Upper limb
	Lab 6	Lower limb
Histology Lab	Lab 1	Histology of the Skin Lab
Micro Lab	Lab 1	Aspects in the Diagnosis of Musculoskeletal and Skin Infections