



Course Syllabus- MBBCh

1. Course title: Anatomy		Course code: ANA1101
2. Credit/contact hours:	81	
3. Number of weeks	16	
4. Level/year at which this course is offered:	Year 1, Sem 1	
5. Pre-requisites for this course (if any): Human Biology		
6. Co-requisites for this course (if any): Histology, Physiology, Biochemistry		

Course Description

Anatomy course in sem 1, is designed to introduce students to the gross anatomy of the musculoskeletal system (bone, joints, muscles and neurovascular structures) of the lower limb regions of the human body and general embryology. This course emphasizes functional anatomy and includes surface anatomy and imaging. This course entails weekly lectures and laboratory components whereby students will explore the human body through cadaveric prosections, imaging and other materials.

Course Learning Outcomes

CLOs		Aligned-PLOs
1	Knowledge	
K1	Describe the general structural plan of the body with regard to the layers one encounters when dissecting from superficial too deep in lower limb.	A1
K2	Explain how movements are produced in the lower limbs and predict what functional disability will result from injuries to a particular anatomical structure of the lower limb.	A1,
K3	Describe the development of the human body from fertilization to birth, including cleavage, blastocyst formation, formation of bilaminar disk, gastrulation	A1
	SKILLS	
S1	Analyze the normal structural images of body organs as they appear in X-ray films & C.T scans.	B1
S2	Demonstrate by inspection, palpation & percussion important bony landmarks, muscles, tendons, blood vessels, nerves & viscera on the living body	B1
	ASPECTS OF COMPETENCE(Attitude)	

CLOs		Aligned-PLOs
A1	Demonstrate an appreciation of ethical and legal factors while handling, preserving and disposing biological material (plastinated specimens, cadavers, bones) and exercising care while handling material for furthering medical education	c4

Course Content

No	List of Topics	Contact Hours	
	Introduction to Anatomy I	1h	
	Introduction to Anatomy II	1h	
	Ethics in Anatomy	1h	
	Bone: Skeleton, Features I	1h	
	Introduction to Anatomy IV	1h	
	Introduction to Anatomy V	1h	
	Introduction to Anatomy VI		
	Introduction to Anatomy VII	1h	
	Introduction to Anatomy VIII	1h	
	Bone: Features II, Skin and Fascia	1h	
	Review, anatomy of the male and female reproductive tracts	1h	
	Introduction to Anatomy IX	1h	
	Introduction to Anatomy X	1h	
	Anterior thigh - Fascia I	1h	
	Anterior thigh - Fascia II	1h	
	Hip bone	1h	
	Gametogenesis, oogenesis, spermatogenesis, abnormal gametes	1h	
	Anterior thigh - Femoral triangle	1h	
	Anterior thigh - Adductor canal	1h	
	Assessment	1h	
	Anterior thigh - Vessels and nerves I	1h	
	Femur	1h	
	Hormonal control: Ovarian cycle	1h	
	Hormonal control: Menstrual cycle	1h	
	Anterior thigh - Vessels and nerves II	1h	
	Femoral triangle, vessels and nerve	1h	
	Fertilization I: capacitation	1h	
	Fertilization II: abnormal implantation	1h	
	Anterior thigh - Muscles I	1h	
	Anterior thigh - Muscles II	1h	
	Introduction to sports injuries	1h	
	Muscles of anterior thigh, Medial thigh, Bone: Tibia	2h	
	Cleavage and blastocyst formation	1h	
	Bilaminar Embryonic disc	1h	

Medial thigh I	1h
Medial thigh II	1h
Gluteal region I	1h
Gluteal region I , Fibula	1h
Trilaminar embryonic disc, primitive streak and mesoderm	1h
Fate of germ layers	1h
Gluteal region II	1h
Gluteal region III	1h
Gluteal region II Posterior thigh, Popliteal fossa	2h
Molecular control of Embryogenesis I	1h
Molecular control of Embryogenesis II	1h
Posterior thigh	1h
Popliteal fossa I	1h
Introduction to Radiological anatomy	1h
Introduction to Radiological anatomy	1h
Front of the Leg	1h
Embryo folding	1h
Chorion and placenta I	1h
Hip Joint I	1h
Hip Joint II	1h
Front of Leg I	1h
Skeleton of foot	1h
Chorion and placenta II	1h
Amnion	1h
Front of Leg II	1h
Yolk sac, allantois, umbilical cord	1h
Teratology: ectocology	1h
Front of Leg III	1h
Revision, Joints, Foot I	2h
Teratology: mechanism	1h
Growth phase, multiple pregnancy	1h
Dorsum of foot	1h
Foot II	2h
IVF I	1h
IVF II	1h
Lateral leg	1h
Posterior leg I	1h
X-ray Lower Limb, Revision	2h
surface Anatomy of Lower limb	1h
Knee joint ,Ankle joint,Joints of foot	1h
Sports Injuries	1h
Revision	1h
Sole of the foot I	1h
Sole of the foot II	1h

Arches of the foot & gait	1h	
Total		81

Teaching and Assessment

1. Alignment of Course Learning Outcomes with Teaching Strategies and Assessment Methods

Code	Course Learning Outcomes	Teaching Strategies	Assessment Methods
	Knowledge		
K1	Describe the general structural plan of the body with regard to the layers one encounters when dissecting from superficial to deep in lower limb.	Interactive lectures (SBIL), SDL, SGD, SP, Practical.	Oral Practical EMQs Mcq.
K2	Explain how movements are produced in the lower limbs and predict what functional disability will result from injuries to a particular anatomical structure of the lower limb.	Interactive lectures (SBIL), SDL, SGD, Practical.	Oral Practical EMQs,MCQ.
K3	Describe the development of the human body from fertilization to birth, including cleavage, blastocyst formation, formation of bilaminar disk, gastrulation to abnormalities.	Interactive lectures (SBIL), SDL, SGD, SP, Collaborative learning project.	EMQ,Mcq,Practical.
	SKILLS		
S1	Analyze the normal structural images of body organs as they appear in X-ray films & C.T scans.	SGD, Practical	Practical exam
S2	Demonstrate by inspection, palpation & percussion important bony landmarks, muscles, tendons, blood vessels, nerves & viscera on the living body	SGD, Practical	Practical exam
	ASPECTS OF COMPETENCE		
A1	Demonstrate an appreciation of ethical and legal factors while handling, preserving and		Practical

Code	Course Learning Outcomes	Teaching Strategies	Assessment Methods
	disposing biological material (plastinated specimens, cadavers, bones) and exercising care while handling material for furthering medical education		

2. Assessment Tasks for Students

#	Assessment task*	Week Due	Percentage of Total Assessment Score
1	Year assessment	Throughout semester	30%
2	Oral , practical, EMQ, MCQ	Week 16(Final sem exam)	70%

*Assessment task (i.e., written test, oral test, oral presentation, group project, essay, etc.)

Learning Resources and Facilities

1.Learning Resources

Required Textbooks	<ol style="list-style-type: none"> 1. Arthur, F. D. and Anne, M. R. (2023) <i>Clinically oriented anatomy</i>, 9th ed., Philadelphia: Wolter Kluwer 2. Williams,P.L (1995) <i>Gray's anatomy</i>, 38th ed., Churchill Livingstone 3. Snell, R.S. (2010) <i>Clinical neuroanatomy</i>, 7th ed., Philadelphia: Wolters Kluwer 4. Agur, A.M.R. (2021) <i>Grant's atlas of anatomy</i>, 15th ed., Philadelphia: Woletrs Kluwer
References Materials	<ol style="list-style-type: none"> 1. Departmental hand-out . 2. Snell, R.S. (2004). <i>Clinical Anatomy for Medical Students</i>. 3. Rapaport, D.H., Whitehead, M.C., & Cosman, B.C. (2006). <i>Netter's Clinical Anatomy</i> by John T. Hansen and David R. Lambert. <i>Clinical Anatomy</i>, 19, 573-574. 4. Mckenzie, J. (1975). <i>Clinical embryology for medical Students</i> Richard S. Snell, Washington. Second edition. 185 x 255 mm. Pp. 481. Illustrated. 1975. Boston: Little, Brown and Co. \$12.50 paper, \$17.50 cloth. <i>British Journal of Surgery</i>, 62.
Electronic Materials	<ul style="list-style-type: none"> • AMBOSS • Access Medicine
Other Learning Materials	Library resources.

2. Facilities Required

Item	Resources
Accommodation (Classrooms, laboratories, demonstration rooms/labs, etc.)	(Classrooms, laboratories, demonstration rooms/labs, etc.)
Technology Resources (AV, data show, Smart Board, software, etc.)	Smart board, Av, Software (3D complete Anatomy), AMBOSS.
Other Resources (Specify, e.g. if specific laboratory equipment is required, list requirements or attach a list)	Human dissection lab with cadavers, platinates, bones, radiographs.

Instructor:

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