Course Syllabus - MBBCh

1. Course title: Anatomy		Course code: (ANA1201)
2. Credit/contact hours:	**95**	
3. Number of weeks	**16**	
4. Level/year at which this course is offered:	**Year 1, Sem 2**	
5. Pre-requisites for this course (if any)**: code**		
6. Co-requisites for this course (if any)**: Histology, Physiology, Biochemistry**		

Course Description

This course is offered to First year students and is designed to introduce students to the gross anatomy of the musculoskeletal system (bone, joints, muscles and neurovascular structures) of the Upper limb and Head and neck region of the human body. 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	Recognize anatomical terms and structures correctly and comprehend the topographic anatomy of the regions of the upper limbs, head & neck by actual dissection.	A1
K2	Correlate and interpret the anatomical and embryological information given with each part of the body with some medical and surgical problems (applied Anatomy).	A1
K3	Classify the bones and joints, their general features, structure, functions & the mechanism of disability in trauma & other common diseases.	A1
	Skills	
S1	Analyze the normal structural images of body organs as they appear in radiographs	B2
S2	Demonstrate by inspection, palpation & percussion important bony land marks, muscles, tendons, blood vessels, nerves & viscera on the living body.	B2
	ATTRIBUTES and COMPETENCE	
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 Delivery Plan

No	List of Topics	Contact Hours

	1. Breast and Pectoral region I	1h	
	2. Breast and Pectoral region II	1h	
	3. Breast and Pectoral region III	1h	
	4. Scapula and Clavicle I	1h	
	5. Introduction to head and neck	1h	
	6. Scalp	1h	
	7. Axilla I Boundaries & content	1h	
	8. Axilla II vessels		1h
	9. Axilla III Brachial plexus		1h
	10. Face I		1h
	11. Face II		1h
	12. Pectoral region - Breast Skull I: introduction/norma verticalis and occipitalis		2h
	13. Back		1h
	14. Cutaneous nerve supply of the upper limb		1h
	15. Back Superficial veins of the upper limb		1h
	16. Humerus - Axilla - Muscles of upper limb I		2h
	17. Orbit and extraocular muscles		1h
	18. Nerves and vessels in orbit		1h
	19. shoulder region I		1h
	20. shoulder region II		1h
	21. shoulder region III		1h
	22. Parotid gland		1h
	23. Cranial cavity ,Dural venous sinuses I		1h
	24. Skull II: norma frontalis/norma lateralis		2h
	25. Superficial structure of free UL		1h
	26. Front of the arm I		1h
	27. Front of the arm II		1h
	28. Radius - Ulna - Brachial plexus		2h
	29. Cranial cavity ,Dural venous sinuses II		1h
	30. Back of Arm		1h
	31. Arteries of cranial cavity		1h
	32. Diploic and Emissary veins		2h
	33. Skull III: basalis externa/basalis interna I		1h
	34. Back of Arm II		1h
	35. Cubital fossa		1h
	36. Clinical Cases of Arm		1h
	37. Muscles of upper limb II - Vessels and nerves of upper limb I		2h
	38. Cavernous sinus and pituitary gland		1h
	39. Anterior Forearm I		1h

	40. Anterior Forearm II		1h
	41. Anterior Forearm III		1h
	42. Cranial nerves		1h
	43. Temporal and infratemporal region I		1h
	44. Skull IV: basalis interna II		1h
	45. Anterior Forearm IV		1h
	46. Upper limb cases		1h
	47. Posterior Forearm I		1h
	48. Muscles of upper limb III –		
	49. Temporal and infratemporal region II		1h
	50. Temporal and infratemporal region III		1h
	51. Posterior Forearm II		1h
	52. Posterior Forearm III		1h
	53. Temporal and infratemporal region IV		1h
	54. Mandible - 1st rib - Vertebrae		1h
	55. Dorsum of hand I		1h
	56. Dorsum of hand II		2h
	57. Skeleton of the hand - X-ray upper limb		1h
	58. Submandibular region I		1h
	59. Submandibular region II		2h
	60. Dorsum of hand III		1h
	61. Palm of hand I		1h
	62. Palm of hand II		1h
	63. Submandibular and sublingual gland		1h
	64. Triangles of neck I		1h
	65. Triangles of the neck I		1h
	66. Palm of hand III		1h
	67. Palm of hand IV		1h
	68. Triangles of neck II		1h
	69. Triangles of neck III		1h
	70. Palm of hand V		1h
	71. Palm of hand VI		1h
	72. Elbow joint		1h
	73. Triangles of neck IV		1h
	74. Thyroid gland		1h
	75. Triangles of the neck II		1h
	76. Radiographs/CT scan		1h
	77. Wrist joint		2h
	78. Scalene muscles		1h
	79. Suboccipital triangle and muscles of back		1h

	80. Revision		1h
	81. Development of the limbs		1h
	82. Anomalies of the limb		2h
	83. sports injuries/cranial injuries cases		1h
	84. Lymphatic drainage of head and neck		1h
Total			

Teaching and Assessment

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

Code	Course Learning Outcomes	Teaching Strategies	Assessment Methods
	Knowledge		
	Recognize anatomical terms and structures correctly and comprehend the topographic anatomy of the regions of the upper limbs, head & neck by actual dissection.	Interactive lectures (SBIL), SDL, SGD, SP, Practical.	Oral Practical EMQ Mcq.
	Correlate and interpret the anatomical and embryological information given with each part of the body with some medical and surgical problems (applied Anatomy).	Interactive lectures (SBIL), SDL, SGD, Practical.	Oral Practical EMQ Mcq.
	Classify the bones and joints, their general features, structure, functions & the mechanism of disability in trauma & other common diseases.	Interactive lectures (SBIL), SDL, SGD, Practical.	Oral Practical EMQ Mcq.
	SKILLS		
	Analyze the normal structural images of body organs as they appear in radiographs	SGD, Practical,Clinical skills	Oral Practical EMQ Mcq.
	Demonstrate by inspection, palpation & percussion important bony land marks, muscles, tendons, blood vessels, nerves & viscera on the living body.	Practical,Clinical skills	Practical,Clinical skills exam
	ATTRIBUTES TO COMPETENCE		
	Demonstrate an appreciation of ethical and legal factors while handling, preserving and disposing biological material	Pracical	Practical

Code	Course Learning Outcomes	Teaching Strategies	Assessment Methods
	(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	• Arthur, F. D. and Anne, M. R. (2023) *Clinically oriented anatomy*, 9th ed., Philadelphia: Wolter Kluwer • Williams,P.L (1995) *Gray's anatomy,* 38th ed., Churchill Livingstone • Snell, R.S. (2010) *Clinical neuroanatomy*, 7th ed., Philadelphia: Wolters Kluwer • Agur, A.M.R. (2021) *Grant's atlas of anatomy*, 15th ed., Philadelphia: Woletrs Kluwer
Essential References Materials	1. **Departmental handout .** 2. Snell, R.S. (2004). Clinical Anatomy for Medical Students. 3. Rapaport, D.H., Whitehead, M.C., & Cosman, B.C. (2006). Netter's Clinical Anatomy by John T. Hansen and David R. Lambert. *Clinical Anatomy*, *19*, 573-574. 4. Mckenzie, J. (1975). Clinical embryology for medical Students Richard S. Snell, Washington. Second edition. 185 × 255 mm. Pp. 481. Illustrated. 1975. Boston: Little, Brown and Co. $12.50 paper, $17.50 cloth. *British Journal of Surgery*, *62*.
Electronic Materials	• 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.)

Item	Resources
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, plastinate, bones, radiographs.

Instructors:

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