نموذج وصف الوحدة

نموذج وصف المادة الدراسي

كلية الهندسة / قسم الطب الحياتي

Module Information معلومات المادة الدراسية					
Module Title	**Trunk Anatomy**			**Module Delivery**	
Module Type	**Core**			☒ **Theory** ☒ **Lecture** ☒ **Lab** ☐ **Tutorial** ☐ **Practical** ☐ **Seminar**	
Module Code	**BME-314**				
ECTS Credits	**5**				
SWL (hr/sem)	**125**				
Module Level	UGIII		**Semester of Delivery**	Five	
Administering Department	BME.		**College**	ENG.	
Module Leader	MSc. Ghufran Basim Medeb		**e-mail**	ghufran.basim95@gmail.com	
Module Leader's Acad. Title	Lecturer		**Module Leader's Qualification**	MSc.	
Module Tutor	Name (if available)		**e-mail**	E-mail	
Peer Reviewer Name	Name		**e-mail**	E-mail	
Scientific Committee Approval Date	21/9/2025		**Version Number**	1.0	

Relation with other Modules العلاقة مع المواد الدراسية الأخرى			
Prerequisite module	None	**Semester**	
Co-requisites module	None	**Semester**	

Module Aims, Learning Outcomes and Indicative Contents أهداف المادة الدراسية ونتائج التعلم والمحتويات الإرشادية	
Module Aims أهداف المادة الدراسية	1. To know the types of body tissues and distinguish their characteristics. 2. To understand nervous tissue histology 3. This course deals with the basic concept of Muscle tissue. 4. This is the basic subject for all body tissues. 5. To develop skills dealing with stain. 6. To Know the types of microscopes used in diagnosis.
Module Learning Outcomes مخرجات التعلم للمادة الدراسية	1. An ability to identify, formulate, and solve engineering problems by applying principles of engineering, science, and mathematics. 2. An ability to apply engineering design process to produce solutions that meet specified needs with consideration of public health, safety, and global, cultural, social, environmental, economic, and other factors as appropriate to the discipline. 3. An ability to develop and conduct appropriate experimentation, analyze and interpret data, and use engineering judgment to draw a conclusion. Discuss the most important tissues that cover the skeletal system 4. An ability to communicate effectively with a range of audiences. 5. An ability to recognize ethical and professional responsibilities in engineering situations and make informed judgments which must consider the impact of engineering solutions in global, economic, environment, and social context. 6. An ability to recognize the ongoing need to acquire new knowledge, to choose appropriate learning strategies, and to apply this knowledge Discuss the most important dyes used in diagnosis 7. An ability to function effectively on a team whose members together provide leadership, create a collaborative and inclusive environment, establish goals, plan tasks, and meet objectives
Indicative Contents المحتويات الإرشادية	Indicative content includes the following. Movements of shoulder joint Ventral and dorsal flexion , Movements of shoulder joint Abduction and adduction , Movements of shoulder joint External and internal rotation , Movements of elbow joint Flexion and extension, Movements of forearm Pronation and supination [12 hrs].

	Bones and joints of the vertebral column and Lower limb , Femur , Shaft of the femur , Patella , Tibia and fibula , Metatarsal bones [12 hrs]. Muscle tissue- structure, contraction and innervation of skletetal muscle, cardiac and smooth muscles, nervous tissue- histogenesis, cells, synapses, nerve fibers, nerves, ganglia, membranes and vessels of the CNS, blood-brain-barrier, cytoarchitecture of the spinal cord, cerebellum and cerebrum. The heart, the conducting system, its blood supply.[12hrs] Arteries and veins of the and abdominal pelvis and lower limb , femoral artery Branches, Profunda Femoris Artery, Arteriala nastomosis in the ll , Cannulation of femoral artery, Popliteal artery , Genicular anastomosis , Veins of the l.l , Superficial veins :great saphenous vein , Venae comitantes , Perforating veins , Varicose veins , Deep vein thrombosis (DVT. [20 hrs]

Learning and Teaching Strategies استراتيجيات التعلم والتعليم	
Strategies	The main strategy that will be adopted in delivering this module encourage students' participation Dissection of rats and handling of dyes an laboratory slides,This will be achieved through classes, interactive tutorials and by considering type of simple experiments involving some sampling activities that are interesting to the students.

Student Workload (SWL) الحمل الدراسي للطالب			
Structured SWL (h/sem) الحمل الدراسي المنتظم للطالب خلال الفصل	78	**Structured SWL (h/w)** الحمل الدراسي المنتظم للطالب أسبوعيا	5
Unstructured SWL (h/sem) الحمل الدراسي غير المنتظم للطالب خلال الفصل	47	**Unstructured SWL (h/w)** الحمل الدراسي غير المنتظم للطالب أسبوعيا	4
Total SWL (h/sem) الحمل الدراسي الكلي للطالب خلال الفصل	125		

Module Evaluation

تقييم المادة الدراسية

		Time/ Number	Weight (Marks)	Week Due	Relevant Learning Outcome
Formative assessment	Quizzes	2	10% (10)	5, 10	1, 6, 7
	Assignment	2	10% (10)	2, 12	1, 6, 7
	Projects / Lab.	1	10% (10)	Continuous	1, 6, 7
	Report	1	10% (10)	13	1, 6, 7
Summative assessment	Midterm Exam	2hr	10% (10)	7	1, 6, 7
	Final Exam	2hr	50% (50)	16	1, 6, 7
Total assessment			100% (100 Marks)		

Delivery Plan (Weekly Syllabus)

المنهاج الاسبوعي النظري

	Material Covered
Week 1	Introduction to the anatomy of thorax,Thoracic cage organization, the sternum, the ribs and thoracic vertebrae,
Week 2	Irregular bones - general features e.g. vertebrae , Flat bones - general features e.g. scapula, sternum and ribs , Gross anatomy of bone , Clavicle , Scapula
Week 3	Bones and joints of the trunk , Skeleton , Function of bones , Identifying characteristics , Classification of bones
Week 4	Thoracohumeral muscles , Superficial (first) layer of back muscles , Shoulder girdle muscles , Rotator cuff , Incisura scapulae Suprascapular notch , Incisura spinoglenoidalis, Trigonum clavipectorale / deltopectorale
Week 5	the intercostals space and articulation of the thoracic cage, Functional anatomy of respiration and diaphragm
Week 6	pulmonary trunk, and major veins the mediastinum, autonomic nervous system in the thorax, pleura and lungs, lymph drainage
Week 7	Mid-term Exam
Week 8	the heart, pericardium and surfaces of the heart, the heart chambers, the coronary arteries, vein of the heart, the conductive system, aorta
Week 9	muscles of the antero-lateral abdominal wall, the inguinal region, Bones and joints of the vertebral column
Week 10	muscles and joints of the back, bony pelvis, ligaments and sex differences, muscles and fascia of pelvic walls and floor
Week 11	the liver and biliary passages, the pancreas and the spleen
Week 12	the kidney, suprarenal and ureter, posterior abdominal wall and diaphragm, vessels and nerves on the posterior abdominal wall, lymphatic of the abdomen

Week 13	the lumbar spine and anatomy of the intervertebral disc, muscles and joints of the back, bony pelvis, ligaments and sex differences
Week 14	duodenum, alimentary tract jejunum and ileum, the large intestine, arterial supply of the gut, venous drainage of the gut Arteries and veins of the abdominal pelvis , the peritoneum stomach, and
Week 15	muscles and fascia of pelvic walls and floor internal pelvic organs:rectum, anal canal and urinary bladder
Week 16	Final Exam

Learning and Teaching Resources
مصادر التعلم والتدريس

	Text	Available in the Library?
Required Texts	Essentials of Anatomy, (7 th editions), by Valerie C. Scanlon, PhD, Tina Sanders	Yes
Recommended Texts	Snell's Clinical Anatomy by Regions, 10th Edition,by Lawrence E.Wineskl,PHD	Yes
Recommended Websites		

Grading Scheme
مخطط الدرجات

Group	Grade	التقدير	Marks (%)	Definition
Success Group (50 - 100)	**A -** Excellent	امتياز	90 - 100	Outstanding Performance
	B - Very Good	جيد جدا	80 - 89	Above average with some errors
	C - Good	جيد	70 - 79	Sound work with notable errors
	D - Satisfactory	متوسط	60 - 69	Fair but with major shortcomings
	E - Sufficient	مقبول	50 - 59	Work meets minimum criteria
Fail Group (0 – 49)	**FX –** Fail	راسب (قيد المعالجة)	(45-49)	More work required but credit awarded
	F – Fail	راسب	(0-44)	Considerable amount of work required

Note: Marks Decimal places above or below 0.5 will be rounded to the higher or lower full mark (for example a mark of 54.5 will be rounded to 55, whereas a mark of 54.4 will be rounded to 54. The University has a policy NOT to condone "near-pass fails" so the only adjustment to marks awarded by the original marker(s) will be the automatic rounding outlined above.