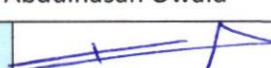


MODULE DESCRIPTION FORM

نموذج وصف المادة الدراسية

Module Information				
معلومات المادة الدراسية				
Module Title	Histology		Module Delivery	
Module Type	Basic		☒ Theory ☒ Lecture ☒ Lab ☐ Tutorial ☒ Practical ☐ Seminar	
Module Code	MDER313			
ECTS Credits	5			
SWL (hr/sem)	125			
Module Level	3	Semester of Delivery		5
Administering Department	Type Dept. Code	College	Type College Code	
Module Leader	Msc Hussain Abdulhasan Owaid		e-mail	Hussain-a@utq.edu.iq
Module Leader's Acad. Title	Lecturer	Module Leader's Qualification	Msc	
Module Tutor	Msc Hussain Abdulhasan Owaid		e-mail	Hussain-a@utq.edu.iq
Peer Reviewer Name			e-mail	Hasnaa.Mohannad@alayen.edu.iq
Scientific Committee Approval Date		Version Number		

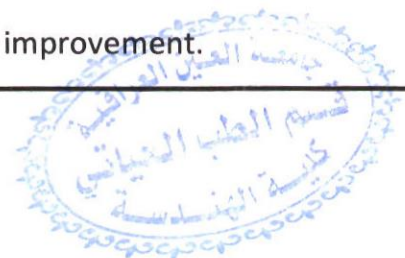
Relation with other Modules			
العلاقة مع المواد الدراسية الأخرى			
Prerequisite module	None	Semester	
Co-requisites module	None	Semester	



Module Aims, Learning Outcomes and Indicative Contents

أهداف المادة الدراسية ونتائج التعلم والمحتويات الإرشادية

Module Objectives أهداف المادة الدراسية	will provide students with the basic knowledge of human histology, focusing on the microscopic structure and organization of cells, tissues, and organs that compose the human body. The emphasis is on understanding the correlation between structure and function at the cellular and tissue levels, and how these relationships contribute to normal physiological processes. The course also highlights structural changes associated with disease and aging, providing a foundation for interpreting pathological conditions. Furthermore, it offers essential microscopic insights that support applications in medicine, biomedical sciences, and related health fields.		
Module Learning Outcomes مخرجات التعلم للمادة الدراسية	Knowledge	A2	A2-1: define the fundamental principles of human histology, including the organization of cells, tissues, and organs, and the relationship between microscopic structure and biological function. A2-2: explain the structural and functional characteristics of the four basic tissue types — epithelial, connective, muscular, and nervous — and describe how these tissues integrate to form organs and systems that perform specific physiological roles. A2-3: apply appropriate histological techniques and diagnostic tools (e.g., light microscopy, special staining, electron microscopy) to identify normal and abnormal tissue structures, and relate microscopic findings to clinical conditions and disease processes.
		A3	A3-1: recognize microscopic structures of cells, tissues, and organs through laboratory activities, slide examinations, and digital histology simulations, ensuring accurate identification and interpretation of normal histological features. A3-2: apply histological techniques and staining methods to prepare, observe, and differentiate tissue types, integrating theoretical knowledge with practical observations while adhering to laboratory safety protocols and professional ethics. A3-3: analyze histological slides to distinguish between normal and pathological tissues, and evaluate structural changes associated with various disease processes and physiological adaptations.
		B1	B1.1 Function efficiently as an individual B1.2 Function as a member of multidisciplinary and multicultural teams
		B2	B2.1 Communicate effectively – graphically with a range of audiences using contemporary tools. B2.2 Communicate verbally and in writing with a range of audiences using contemporary tools.
	Ethics	C2	C1-1: Commit to quality standards. C1-2: Adhere to deadlines. C1-3: Strive for continuous improvement.



Indicative Contents المحتويات الإرشادية	1 ☐ Introduction to Histology – [3 hrs] • Definition, scope, and relation to anatomy & physiology. • Tissue preparation and staining methods. • Use of light and electron microscopes. 2 ☐ The Cell – [4 hrs] • Structure: membrane, nucleus, cytoplasm, organelles. • Cell cycle and division (mitosis & meiosis). • Cell specialization and differentiation. 3 ☐ Basic Tissues – [16 hrs] - Epithelial Tissue – [5 hrs] • Types: simple, stratified, glandular. • Main functions: protection, secretion, absorption. B. Connective Tissue – [5 hrs] • Cells, fibers, and ground substance. • Types: loose, dense, cartilage, bone, blood. . Muscle & Nervous Tissues – [6 hrs] • Muscle: skeletal, cardiac, smooth. • Nervous: neurons and neuroglia; structure and function. 4 ☐ Organ Histology – [20 hrs] • Cardiovascular & Lymphoid systems: heart, vessels, lymph nodes, spleen. • Respiratory system: trachea, bronchi, lungs. • Digestive system: stomach, intestines, liver, pancreas. • Urinary system: kidney, ureter, bladder. • Reproductive systems: testis, ovary, uterus. • Endocrine glands: pituitary, thyroid, adrenal. 5 ☐ Practical & Correlation Sessions – [4 hrs] • Microscopic slide identification of main tissues and organs. • Structure–function correlation and basic histopathological notes.
---	--

Learning and Teaching Strategies استراتيجيات التعلم والتعليم	
Strategies	Lectures Brainstorming strategy Practical demonstrations Research projects Rapid tests



Student Workload (SWL)			
الحمل الدراسي للطالب محسوب لـ ١٥ اسبوعا			
Structured SWL (h/sem) الحمل الدراسي المنتظم للطالب خلال الفصل	79	Structured SWL (h/w) الحمل الدراسي المنتظم للطالب أسبوعيا	5.2
Unstructured SWL (h/sem) الحمل الدراسي غير المنتظم للطالب خلال الفصل	46	Unstructured SWL (h/w) الحمل الدراسي غير المنتظم للطالب أسبوعيا	3.06
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 and 10	
	Attendance		10% (10)		
	Report / Lab.	1	15% (15)	10	
	projects	1	15% (10)	7	
Summative assessment	Midterm Exam	1hr	10% (10)	10	
	Final Exam	2hr	50% (50)	16	
Total assessment			100% (100 Marks)		

Delivery Plan (Weekly Syllabus)		
المنهاج الاسبوعي النظري		
	Material Covered	Los
Week1	Introduction to cell biology, type of tissues; Epithelial tissue ,characteristic features epithelial cells	A2B1C1
Week 2	Specializations of apical cell surface ,types of epithelia, glandular epithelia , Celljunction Connective tissue; Cells of connective tissue,& connective tissue matrix, type of connective tissues, bone , cartilage.	A2 A3B1B2C1C3



Week 3	Muscular tissue; Skeletal muscle , cardiac muscle and smooth muscles	A2 A3B1B2C1
Week 4	Circulation system: blood and lymphatic vessels . Types of arteries; elastic& muscular arteries , arterioles, capillaries types of veins :post capillary venues' , muscular veins, large veins ,. lymph vessels.	A2 A3B1B2C1
Week 5	The heart compartment , layer of heart, endocardium's, myocardial ,cardiac valves, impulses,	A2A3B1B2C1C3
Week 6	Nervous System	A2 A3B1B2C1
Week 7	Respiratory system components relation to lung or function , Respiratory epithelium , respiratory portion & conduction	A2A3B1B2C1C3
Week 8	Mid exam	A2A3B1B2C1C3
Week 9	Nasal cavities. Nasopharynx larynx. Trachea , bronchi , Bronchioles, Terminal bronchioles., Alveolar sac and alveoli	A2A3B1B2C1C3
Week 10	Urinary tract system, renal function, kidney, nephron, blood supply the kidney , uterine. Urethra, bladder,	A2A3B1B2C1C3
Week 11	Collecting duct excretory , uterine. Bladder, urethra.	A2A3B1B2C1C3
Week 12	Renal corpuscles, mesangial . Proximal & distal convoluted tubule	A2A3B1B2C1C3
Week 13	The Digestive System: oral cavity ,lips , tongue ,test buds, pharynx ,genera , digestive tract, Esophagus, stomach , small intestinal	A2A3B1B2C1C3
Week 14	Large Intestine (colon).Rectum ,Pancreas & Liver. Biliary tract Gall bladder The Skin	A2A3B1B2C1C3
Week 15	SEMINAR	B2B1C2
Week 16	Preparatory week before the final Exam	

Delivery Plan (Weekly Lab. Syllabus)		
المنهاج الاسبوعي للمختبر		
	Material Covered	Los
Week 1	Lab 1: Introduction to Histology & Microscopy	A3
Week 2	Lab 1: Epithelial Tissue	A3
Week 3	Lab 2: connective tissue	A3
Week 4	Lab 3: : Muscular Tissue	A3

Week 5	Lab 4: Nervous Tissue	A3
Week 6	Lab 5: Blood and Lymphatic Tissues	A3
Week 7	Lab 6: Revision and Practical Examination	A3

Learning and Teaching Resources		
مصادر التعلم والتدريس		
	Text	Available in the Library?
Required Texts	Junqueira's Basic Histology - Text and Atlas (13th Ed)	Yes
Recommended Texts	principles of anatomy and physiology 12th ed - g. tortora, b	No
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.				

