	Ministry of Higher Education and Scientific Research - Iraq Al-Nahrain University College of Science Applied Pathological Analysis Department	

MODULE DESCRIPTOR FORM
نموذج وصف المادة الدراسية

Module Information
معلومات المادة الدراسية

Module Title	Histology		**Module Delivery**	
Module Type	CORE		☒ **Theory** ☒ **Lecture** ☒ **Lab** ☒ **Tutorial** ☒ **Practical** ☒ **Seminar**	
Module Code				
ECTS Credits	7			
SWL (hr/sem)	79			
Module Level	UGx11 1	**Semester of Delivery**	1	
Administering Department	Applied Pathological Analysis	**College**	College of Science	
Module Leader	Dr. Evan H. Sulaiman	**e-mail**	evan.hameed@nahrainuniv.edu.iq	
Module Leader's Acad. Title	Lecturer	**Module Leader's Qualification**	Ph. D.	
Module Tutor	Dr. Wael Adil Obaid Dr. Evan H. Sulaiman MSC. Hadeer Faris	**E-mail**	Waeladil@nahrainuniv.edu.iq evan.hameed@nahrainuniv.edu.iq hadeer.faris@nahrainuniv.edu.iq	
Peer Reviewer Name	Dr. Evan H. Sulaiman	**e-mail**	evan.hameed@nahrainuniv.edu.iq	
Scientific Committee Approval Date	10/9/2024	**Version Number**	1.0	
Laboratory Staff	Dr. Ruaa Hameed, MSC. Hadeer Faris, MSC. Zeena Murshed, MSC. Ahmed Jabbar, MSc. Zainab Ali, MSC. Eman Adnan Abdulmajeed, MSC. Nada Mohammed			

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	The course aims to teach students the following: Histology is an essential tool for medical students. This study aims to introduce the student to the basic types of cells and classify those cells according to the study of the shape of the cells that form those tissues and the basic function of these cells, which form the various tissues and organs of the human body, by examining thin slices of tissue under a microscope.
Module Learning Outcomes مخرجات التعلم للمادة الدراسية	1. Learn the structure of organs 2. The ability to distinguish the types of tissues that make up organs. 3. Understand how the body's organs perform their functions 4. The ability to make tissue sections 5. Learn how to obtain samples from the patient and how to deal with them
Indicative Contents المحتويات الإرشادية	Introduction to histology, epithelial tissue and its types
	Glandular epithelial tissue and specializations on the surfaces of epithelial tissues
	Connective tissue, elements of connective tissue and types of connective tissue
	Disintegrated connective tissue and tendon and introduction to special connective tissue
	Skeletal tissue, cartilage and bone types
	Mid-term exam
	Blood formation and muscle tissue, skeletal, smooth and cardiac muscles
	Nerve tissue, nerve cells, nerve fibers
	Final exam

Learning and Teaching Strategies استراتيجيات التعلم والتعليم	
Strategies	- Encourage students to take structured notes during lectures. - - Provide practical questions and problem-solving exercises. - - Actively participate in group discussions and collaborative activities. - - Use textbooks, online resources, and supplementary materials to enhance learning. - - Provide constructive feedback on assignments and assessments. - - Review helps students understand their strengths and areas for improvement. Teaching Strategies: - Encourage students to actively engage with the material through group discussions and activities to promote deeper understanding. - Provide well-structured lectures that provide a clear overview of the topic. - Incorporate videos, animations, and interactive simulations to illustrate complex biological processes. - Assign readings or video lectures as homework and use class time for discussions and activities.

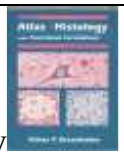
Student Workload (SWL) الحمل الدراسي للطالب محسوب لـ ١٥ اسبوعا			
Structured SWL (h/sem) الحمل الدراسي المنتظم للطالب خلال الفصل	94	**Structured SWL (h/w)** الحمل الدراسي المنتظم للطالب أسبوعيا	6
Unstructured SWL (h/sem) الحمل الدراسي غير المنتظم للطالب خلال الفصل	56	**Unstructured SWL (h/w)** الحمل الدراسي غير المنتظم للطالب أسبوعيا	3.5
Total SWL (h/sem) الحمل الدراسي الكلي للطالب خلال الفصل	150		

Module Evaluation تقييم المادة الدراسية					
		Time/Number	**Weight (Marks)**	**Week Due**	**Relevant Learning Outcome**
Formative assessment	**Quizzes**	2	10% (10)	all	ALL
	Assignments	2	5% (10)	3.11	ALL
	Projects / Lab.	0	15% (10)	Continues	ALL
	Seminar	1	10% (10)	Continues	ALL
Summative assessment	**Midterm Exam**	1 hr	10% (10)	7	ALL
	Final Exam	3hr	50% (50)	16	All
Total assessment			100% (100 Marks)		

Delivery Plan (Weekly Syllabus) المنهاج الاسبوعي النظري	
	Material Covered
Week 1	Introduction and overview of methods used in histology, Classification of Histology, Tissue preparation
Week 2	Overview of Cell structure & types
Week 3	Tissues: Concept and classifications of primary tissues.
Week 4	Epithelial tissue: Simple Ep. T. , Compound Ep. T.
Week 5	The glandular Tissues (The Glands)
Week 6	Connective and Supportive Tissue: Embryonic and adult C.T. Connective Tissue proper (General C.T.)
Week7	**Exam**
Week8	Cartilage, Histogenesis, Growth and repair of cartilage
Week9	Bone & Histogenesis of Bone
Week 10	The Blood
Week11	The haemopoietic organ (bone marrow), Formation of blood cells.
Week12	Muscular tissue
Week13	Nervous tissue: Overview of nervous system (CNS & PNS) Nervous system: the Nerve cells (neurons) and their classification
Week14	Supporting cells of nervous system
Week 15	**Exam**

Delivery Plan (Weekly Lab. Syllabus) المنهاج الاسبوعي للمختبر	
Weeks	**Material Covered**
Week 1	Microscope: study the microscope parts of types and lines, how can be used
Week 2	Preparation of slides, methods and materials used
Week 3	Epithelial tissue, The Glands
Week 4	Connective tissue Cartilage ,Bone, bone marrow
Week 5	Muscular tissue
Week 6	Nervous tissue

Week 7	Brain, spinal cords, meninges

Learning and Teaching Resources مصادر التعلم والتدريس		
	Text	**Available in the Library?**
Required Texts	Histology Dr. Kawakib Abdul Qadir University of Baghdad	yes
Recommended Texts	difori's Text and Atlas of Histology 	yes
Websites	https://docs.google.com/file/d/0B3yBUlQNJt0ldjhlVlZSZmJHUUk/edit?resourcekey=0-EvVSt1KzjYHTm24HsAhU2A	

APPENDIX:

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	مقبول بقرار	(45-49)	More work required but credit awarded
	F – Fail	راسب	(0-44)	Considerable amount of work required

Note:

NB 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.



ملاحظة: هذا النموذج تم وضعه وتقديمه من قبل مديرية ضمان الجودة في وزارة التعليم العالي والبحث العلمي