

 Knowledge UNIVERSITY	Kurdistan Region – Iraq Ministry of Higher Education and Scientific Research Knowledge University	
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MODULE DESCRIPTOR FORM

Module Information			
Course Module Title	Histology		
ناونیشانی مۆدیول	هیسٹۆلۆجی		
عنوان الوحدة	علم الانسجة		
Course Module Type	Core	Module Code	DMLS
ECTS Credits		Module Level	
Semester of Delivery		Dept. Code	DMLS
College (Code)	SCI		
Module Website (CMW)	Knu.edu.iq		
Module Leader (ML)	Dhary Alewy Almashhadany	e-mail	dhary.alewy @knu.edu.iq
ML Acad. Title	Professor	Qualification	PhD
ML ORCID	https://orcid.org/0000-0003-4346-6532		
ML Google Scholar Acc.	https://scholar.google.com/citations?user=ZeiQsmIAAAAJ&hl=en		
Peer Review Name	Salah Madi Saleem Al-Bader	e-mail	salah.mahdi@knu.edu.iq
Reviewer Committee Approval	10/09/2022	Version Number	

Relation With Other Modules	
Pre-requisites	None
Co-requisites	
Module Aims, Learning Outcomes and Indicative Contents	
Module Aims	- Understand the essential terms used in Cytology and Histology. - Histological (Micro anatomical) terms related to other basic sciences. - To understand the functions of each type of tissues and systems in human body. - Expand Histological concepts presented in prerequisite courses. - Discuss the structure and function of different types of tissues. - How to do microscopic examination of the tissues. - How to prepare the slide for tissue examinations. - Study the main features of the different types of tissues. - Comparing between different types of tissues.
Module Learning Outcomes	At the end of this module students will be able to: - Develop important academic skills such as scanning and analyzing a text. - Able to sample collection, and other related Histological subject. - Able to collect, prepare, and dealing with the clinical specimens. - Can distinguish the different types of tissues according to their histological properties. - The practical experience enables the student to a position in clinical lab.
Indicative Contents	This subject teaches the micro-architecture of the human tissues and organs adding to the knowledge base established in the subject Anatomy and Physiology. Students will engage in independent study supplemented by practical classes and seminars to learn about the tissue structure of major systems of the human body. Students will learn about the preparation and diagnosis of histological samples through participation in a major project, with particular emphasis on laboratory safety, professional practice and written communication. This unit will introduce the fundamental theoretical and practical concepts and principles of histology. The unit provides a study of histological methodologies including fixation, decalcification, processing, and section cutting of normal tissues and techniques to stain specific structures. The normal structure of biological tissues and organs at the microscopic level is studied.

Learning and Teaching Strategies	
Strategies	Our strategies by depending on active learning, which is any approach to instruction in which all students are asked to engage in the learning process. Active learning stands in contrast to "traditional" modes of instruction in which students are passive recipients of knowledge from an expert. Active learning can take many forms and be executed in any discipline. Commonly, students will engage in small or large activities centered around writing, talking, problem solving, or reflecting.

Module Delivery	
Structured workload (h/w)	h/w
Unstructured workload (h/w)	h/w
Total workload (h/w)	h/w

Module Evaluation				
	Number/Time	Weight (Marks)	Week Due	Relevant Learning Outcome
Quizzes	2	5% (5)	5 or 5, 10	
Assignments	2	5% (5)	At the start	
Seminar	1	5% (5)	8	
Project/Lab.	1	5% (5)	Continuous	
Lab Activity	5	10% (10)	2-14	
Midterm Exam (Th)	1 hr	10% (10)	7	
Midterm Exam (Pr)	1 hr	10% (10)	7	
Final Exam	2 hr	50%	15	
Total	100% (100 Marks)			

Learning and Teaching Resources		
	Text	Available in the Library?
Required Texts	Histology Cytology Embryology by Robrysheva I.V. and Kachshenko S. A., 2011, available on internet.	available online

Recommended Texts	Glossary of Cytology and Histology Terms :- Prepared by the lecturer	available online
Websites	https://histologyknmu.wixsite.com/info/histological-slides	

Delivery Plan (Weekly Syllabus)	
	Material Covered
Week 1	Introduction to Histology
Week 2	Embryonic Development
Week 3	Origin of Tissues
Week 4	Body Membranes
Week 5	Tissues of Human Body
Week 6	Covering Epithelium
Week 7	Mid-Term Exam
Week 8	Histology of Exocrine and Endocrine glands
Week 9	Histology of Muscular Tissues
Week 10	Introduction and Components of C.T.
Week 11	Classification of C.T. Proper
Week 12	Histology of Bone and Cartilage
Week 13	Histology of Fluid C.T. /Blood and Lymph
Week 14	Histology of Nervous Tissues

Week 15	Final Exam
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APPENDIX:

KNOWLEDGE UNIVERSITY					
GRADING SCHEME					
Group	ECTS Grade	% of Marks	Definition	IRQ System	GPA
Success Group (50-100)	A - Excellent	Best 10%	Outstanding Performance	90-100	5
	B - Very Good	Next 25%	Above average with some errors	80-89	4
	C - Good	Next 30%	Sound work with notable errors	70- 79	3
	D - Satisfactory	Next 25%	Fair but with major shortcomings	60-69	2
	E - Sufficient	Next 10%	Work meets minimum criteria	50-59	1
Fail Group (0-49)	FX – Fail	(45-49)	More work required but credit awarded	40-49	
	F – Fail	(0-44)	Considerable amount of work required	0-44	
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. KNU 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.					