University of Shatt Al-Arab Faculty of Science Department of pathological analyses



MODULE DESCRIPTION

Module Information معلومات المادة الدراسية						
Module Title	Principle	Principles pathological analysis			ıle Delivery	
Module Type		Core			☑ Theory	
Module Code		Path-121			Lecture	
ECTS Credits		7			_ ☑ Lab	
SWL (hr/sem)				☐ Tutorial ☐ Practical ☑ Seminar		
Module Level		2	Semester of De		у	2
Administering De	partment	pathological analyses	College Science			
Module Leader	Dr.Mohammed	A.Fayyadh	e-mail	Mohammed.Amer.Fayyadh@sa-uc.edu		adh@sa-uc.edu.iq
Module Leader's Acad. Title		Professor	Module Leader's Qualification		Ph.D.	
Module Tutor	Name (if available)		e-mail	E-mail		
Peer Reviewer Name		Name/	e-mail E-mail			
Scientific Committee Approval Date		15/2/2025	Version Nu	Version Number 1.0		

Relation with other Modules					
العلاقة مع المواد الدراسية الأخرى					
Prerequisite module		Semester	2		
Co-requisites module	None	Semester			

Module Aims, Learning Outcomes and Indicative Contents				
	أهداف المادة الدراسية ونتائج التعلم والمحتويات الإرشادية			
Module Aims أهداف المادة الدراسية	 To identify between tests according the samples type. To understand of introduction for pathological analysis To understand of complete blood count. To understand of blood groups and Rh system To understand of kidney function tests. To understand of liver function tests. Teach students how pathological analysis is integral to diagnosing diseases and informing treatment strategies in clinical practice. 			
Module Learning Outcomes مخرجات التعلم للمادة الدراسية	 .1.Able to understand common aspects between different types of tests. 2.able to numerate the type of diabetes. 1. Able to describe the interactions between antibody and antigens. 2. Able to define medical conditions to relation with tests. 3. Able to identify of causes of disease with tests. 4. Able to understand of complications of diabetes. 5. Able to understand of functions of liver and kidney 			
Indicative Contents المحتويات الإرشادية	Indicative content includes the following. 1-Liver function test ALB ,GOT,GPT,ALP,GGT,BLOOD UREA,creatinine, uric acid,electrolyte, lipid profile,c-reactive protein,cardiac function,pancreatic function,diabetes profile,thyroid function,reproductive hormones (30 hours) 2- practical laboratory test areLiver function test ALB ,GOT,GPT,ALP,GGT,BLOOD UREA,creatinine, uric acid,electrolyte, lipid profile,c-reactive protein,cardiac function,pancreatic function,diabetes profile,thyroid function,reproductive hormones (30 hours) 3-discusion (15 hours).			

Learning and Teaching Strategies				
استراتيجيات التعلم والتعليم				
Stratogics	The primary approach that will be used to present this module is to promote students			
Strategies	engagement in the activities while also enhancing and broadening their critical thinking			

abilities. This will be accomplished through lectures, interactive tutorials, and taking into account the kinds of easy experiments that include certain sampling tasks that the students will find engaging.

Student Workload (SWL) الحمل الدراسي للطالب محسوب لـ ١٥ اسبوعا				
Structured SWL (h/sem) Structured SWL (h/w) الحمل الدراسي المنتظم للطالب أسبوعيا الحمل الدراسي المنتظم للطالب أسبوعيا				
Unstructured SWL (h/sem) الحمل الدراسي غير المنتظم للطالب خلال الفصل	96	Unstructured SWL (h/w) الحمل الدراسي غير المنتظم للطالب أسبوعيا	6	
Total SWL (h/sem) الحمل الدراسي الكلي للطالب خلال الفصل	175			

تقييم المادة الدراسية							
		Time/Nu	Weight (Marks)	Week Due	Relevant Learning		
		mber			Outcome		
	Quizzes	2	10% (10)	5, 10	LO #1, 2, 10 and 11		
Formative	Assignments	2	10% (10)	2, 12	LO # 3, 4, 6 and 7		
assessment	Projects / Lab.	1	10% (10)	Continuous	All		
	Report	1	10% (10)	13	LO # 10, 11 and 12		
Summative	Midterm Exam	2 hr	10% (10)	8	LO # 1-7		

50% (50)

100% (100 Marks)

16

ΑII

3hr

assessment

Total assessment

Final Exam

Module Evaluation

Delivery Plan (Weekly Syllabus)

المنهاج الاسبوعي النظري					
	Material Covered				
Week 1	Blood function & CBC				
Week 2	Liver function test ALB , GOT ,GPT				
Week 3	ALP				
Week 4	GGT				
Week 5	BLOOD UREA				
Week 6	Serum creatinine				
Week 7	Uric acid test &Serum electrolyte				
Week 8	Mid term exam				
Week 9	Lipid profile				
Week 10	C-reactive protein				
Week 11	Cardiac function test				
Week 12	Pancreatic function test				
Week 13	Diabetes profile				
Week 14	Thyroid function test				
Week 15	Reproductive hormones				
Week 16	Preparatory week before the final Exam				

Delivery Plan (Weekly Lab. Syllabus) المنهاج الاسبوعي للمختبر				
Week 1	Lab :ALP,GOT GPT			
Week 2	Lab:ALP			
Week 3	Lab 3: GGT			
Week 4	Lab 4: ESR			
Week 5	Lab 5:blood urea			
Week 6	Lab 6: serum creatinine			
Week 7	Lab 7: Filters			
Week 8	Uric acid			
Week 9	Electrolyte profile			

Week 10	Lipid profile
Week 11	Prothrombin time
Week 12	Cardiac function test
Week 13	Diabetes profile
Week 14	Thyroid function test
Week 15	Reproductive hormones

Learning and Teaching Resources					
	مصادر التعلم والتدريس				
	1-Mosby's Manual of Diagnostic and Laboratory Tests) 5th Edition by Kathleen Deska Pagana PhD RN (Author), Timothy J. Pagana MD FACS (Author 2-Clinical biochemistry and Metabolic medicine (2012) 8 th edition by Martin A.Crook	Available in the Library?			
Required Texts	Laboratory and Diagnostic Tests A MANUAL OF NINTH EDITION Frances Talaska Fischbach, RN, BSN, MSN	no			
Recommended Texts		No			
Websites	https://medlineplus.gov/laboratorytests.html				

Grading Scheme مخطط الدرجات						
Group	Grade	التقدير	Marks (%)	Definition		
	A - Excellent	امتياز	90 - 100	Outstanding Performance		
	B - Very Good	جيد جدا	80 - 89	Above average with some errors		
Success Group (50 - 100)	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	FX – Fail	راسب (قيد المعالجة)	(45-49)	More work required but credit awarded		
(0 – 49)	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.

