

 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	Clinical blood banking		
ناونیشانی مۆدیول	بانکی خوینی بزیشکی		
عنوان الوحدة	البنك الدم الطبية		
Course Module Type	Core	Module Code	MM 301
ECTS Credits	6	Module Level	fourth
Semester of Delivery	8 th	Dept. Code	
College (Code)	CSCN30000+		
Module Website (CMW)	Knu.edu.iq/sms		
Module Leader (ML)	Abdullah Othman Hassan	e-mail	Abdullahgardyy@gmail.com
ML Acad. Title	Assistant lecturer	Qualification	MSc.
ML ORCID	https://orcid.org/my-orcid?orcid=0000-0001-5392-8353		
ML Google Scholar Acc.	https://scholar.google.com/citations?user=rDjTLTIAAAAJ&hl=en		
Peer Review Name	Rawaz Rzgar Hassan	e-mail	Rawaz.hassan@gmail.com
Reviewer Committee Approval	11/01/2023	Version Number	1.0

Relation With Other Modules

Pre-requisites	
Co-requisites	
Module Aims, Learning Outcomes and Indicative Contents	
Module Aims	The aim of this module is to: The goals of this course are to: (1) Let the students understand the human blood and its disorders based on an up-to-date knowledge and in a simple stylish way. (2) Familiarize students with the pathophysiological background of main blood disorders
Module Learning Outcomes	By the end of this course, the students SHOULD be able to: 1. Understand the Clinical of hematology, both blood physiology, functions, and disorders. 2. Master the pathobiology of hematological disorders encountering in hospital practice. 3. Interpret diagnostic test results and erroneous test results and able to fix them
Indicative Contents	
Learning and Teaching Strategies	
Strategies	The main strategy that will be adopted in delivering this module is to encourage students' participation in the exercises, while at the same time refining and expanding their critical thinking skills. 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.

Module Delivery	
Structured workload (h/w)	4 h/w
Unstructured workload (h/w)	8.8h/w
Total workload (h/w)	10.8h/w

Module Evaluation				
	Number/Time	Weight (Marks)	Week Due	Relevant Learning Outcome
Report and poster	1	10%(10)	4	To improve their writing skills

Quizzes	5	5% (5)	1,2,3,4,5	To memorize their lectures
Assignments	3	5% (5)	3,4,5	To study at home
Seminar	1	5%(5)	6	To be more confident in their presentation skills.
Project/Lab.	7	15%(15)	Every week	To improve their Practical skill
Midterm Exam	2 hr	10%(10)	7	Demonstrating student learning , memorization of knowledge and critical thinking.
Final Exam	3 hr	50%	15	
Total	100% (100 Marks)			

Learning and Teaching Resources		
	Text	Available in the Library?
Required Texts	Reference book: Essential Haematology, 2nd edition (2011)	Yes
Recommended Texts	1. A Beginner's Guide to Blood Cells, 2 nd edition (2004) 2. . A Manual of Laboratory and Diagnostic Tests, 9th edition (2015) ((Note: All the above ebooks are provided to the student's representative))	Yes
Websites		

Delivery Plan (Weekly Syllabus)	
	Material Covered
Week 1	Red blood cell disorders: G6PD
Week 2	Hemolytic anemia - Sickle Cell Anemia
Week 3	WBC disorder (Acute myeloid leukemia)
Week 4	WBC disorder (Chronic myeloid leukemia)
Week 5	WBC disorder (Acute Lymphoid leukemia)

Week 6	Exam-Midterm
Week 7	WBC disorder (Chronic Lymphoid leukemia)
Week 8	Lymphoma
Week 9	Myeloma
Week 10	Blood collection in Blood bank
Week 11	Blood donor and collection ⌘ Anticoagulant is used in blood bank ⌘ Quality assurance ⌘ Paternity testing ⌘ Antibody identification
Week 12	Storage of blood component
Week 13	Plasma exchange
Week 14	Preparation of PPS (Plasma Protein Solution)
Week 15	

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. KOU 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.