



**Jordan University of Science and Technology**  
**Faculty of Applied Medical Sciences**  
**Allied Medical Sciences Department**

LM356 Diagnostic Hematopathology (2) Practical - JNQF Level: 7

Second Semester 2023-2024

**Course Catalog**

1 Credit Hours. This course provides the students with the basics of laboratory findings in case of white blood cells disorders as Benign disorders and malignancies as Leukemia and Multiple myeloma and the other types of malignancies of blood. Also some morphological abnormalities that require microscopic examination and special hematological tests.

**Teaching Method:** On Campus

**Text Book**

<b>Title</b>	Rodak's Hematology Clinical Principles and Applications.
<b>Author(s)</b>	Elaine M.Keohane, Larry J.Smith , Jeanine M.Walenga.
<b>Edition</b>	5th Edition
<b>Short Name</b>	Ref#1
<b>Other Information</b>	Manual Handouts are available

**Instructor**

Name	<b>Mrs. Ruba Abedaljawad</b>
Office Location	-
Office Hours	
Email	reabdeljawad@just.edu.jo

**Class Schedule & Room**

Section 1:  
Lecture Time: Sun : 10:30 - 12:30  
Room: LAB M 6A

Section 2:  
Lecture Time: Sun : 14:30 - 16:30  
Room: LAB M 6A

Section 3:  
Lecture Time: Mon : 08:30 - 10:30  
Room: LAB M 6A

Section 4:  
Lecture Time: Mon : 12:30 - 14:30  
Room: LAB M 6A

Section 5:  
Lecture Time: Mon : 14:30 - 16:30  
Room: LAB M 6A

#### Tentative List of Topics Covered

Weeks	Topic	References
Week 1	Introduction to White Blood Cells.	<b>Manual Handouts</b> From <b>Ref#1</b>
Week 2	Quantitative and Qualitative White Blood Cells abnormalities	<b>Manual Handouts</b> From <b>Ref#1</b>
Week 3	Myeloid and Erythroid Maturation and Platelets Production	<b>Manual Handouts</b> From <b>Ref#1</b>
Week 4	Acute Myeloid Leukemia (AML)	<b>Manual Handouts</b> From <b>Ref#1</b>
Week 5	Acute Lymphoid Leukemia (ALL)	<b>Manual Handouts</b> From <b>Ref#1</b>
Week 6	Chronic Myeloid Leukemia (CML)	<b>Manual Handouts</b> From <b>Ref#1</b>
Week 7	Chronic Lymphoid Leukemia (CLL)	<b>Manual Handouts</b> From <b>Ref#1</b>
Week 8	Multiple Myeloma (MM)	<b>Manual Handouts</b> From <b>Ref#1</b>
Week 9	Dysplasia evidences /Myelodysplastic Syndromes (MDSs)	<b>Manual Handouts</b> From <b>Ref#1</b>
Week 10	Myeloproliferative Disorders (MPDs)	<b>Manual Handouts</b> From <b>Ref#1</b>

Mapping of Course Outcomes to Program Outcomes and NQF Outcomes	Course Outcome Weight (Out of 100%)	Assessment method
Understanding hematological abnormalities and malignancies of white blood cells and lymph nodes, and malignancies of red blood cells and platelets with a major emphasis on their diagnostic approach which will be extensively described. [10SLO1] [10L7K1]	10%	Reports, Quizzes and Evaluation

Ability to interpret the laboratory findings including CBC. [10SLO1, 10SLO2] [10L7S1, 10L7S2]	20%	Reports, Quizzes and Evaluation
Ability to recognize morphological abnormalities of white blood cells that require microscopic examination through details of stained blood film and the abnormalities of all blood cells by examining special stained bone marrow smear. [10SLO1, 10SLO2] [10L7S1, 10L7S2]	20%	Reports, Quizzes and Evaluation
Understanding Other special hematological tests, pathological and cytogenetic techniques for diagnosis of these malignancies. [20SLO1] [20L7K1]	20%	Reports, Quizzes and Evaluation
Applying Quality control and quality assurance measures to achieve a precise and accurate diagnosis of diseases with no or minimized errors and false results. [10SLO4] [10L7S3]	10%	Reports, Quizzes and Evaluation
Correlate between the results of the different diagnostic tests in order to help in the final diagnosis of diseases. [20SLO3] [20L7C4]	20%	Reports, Quizzes and Evaluation

Relationship to Program Student Outcomes (Out of 100%)											
SLO1	SLO2	SLO3	SLO4	SLO5	SLO6	MSLO1	MSLO2	MSLO3	MSLO4	MSLO5	MSLO6
50	20	20	10								

Relationship to NQF Outcomes (Out of 100%)				
L7K1	L7S1	L7S2	L7S3	L7C4
30	20	20	10	20

Evaluation	
Assessment Tool	Weight
Reports, Quizzes and Evaluation	25%
Midterm exam	25%
Final exam	50%

Policy	
Attendance policy	No points will be count for points attendance of this class, however attending the lectures will greatly enhance your grade. The student is responsible for any information discussed in lecture sessions. It is imperative to attend all classes! University regulations will be applied. Students are not allowed to be absent for more than 20% of lectures for any reason or excuse. If a student exceeds the absence limit, he or she will not be allowed to sit for future course exams. (Please review university regulation for more details).
Make-up Exam policy	Make-up exams is entitled for students who miss the exam with accepted legal or medical excuse endorsed by the instructor within 24 hours after the scheduled exam (Please review university regulation for more details).

Feedback	Concerns, complaints, questions, and/or feedback are appreciated and will be important for the instructor. You can contact your instructor using the e-mail or during office hours.
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