

Course Overview

Clinical Hematology

Course code :	LMT403
Course title:	Clinical Hematology
Level/semester:	Forth Semester
Preceding Courses & Main Subjects	-Biology , Chemistry -Human Anatomy & Physiology
Credit hours:3	Theoretical: 2
	Practical: 2

Course Title: (Theory)

UNIT	CONTENTS	HOURS
1	- Bone Marrow : Normal structure and composition - Aspiration and Trepine biopsy	4
2	- Classification of Leukaemias - Acute Lymphoblastic Leukaemia and its laboratory diagnosis - Acute Myeloblastic Leukaemia and its laboratory diagnosis	8
3	- Leukaemoid reaction - Chronic Myeloid Leukaemia and its laboratory diagnosis - Chronic Lymphocytic Leukaemia and its laboratory diagnosis	6
4	- Polycythemia - Thrombocythemia - Multiple Myeloma	4
5	- Cytochemistry in Leukaemias	2
6	- Role of Immunophenotyping & Cytogenetics in Leukaemias	2
7	- Quality Management in Haematology	4
TOTAL =		30

Course Title: (Practical)

EXERCISE	CONTENTS	HOURS
Exercise 1	-Identification of normal & abnormal forms of WBC on the blood smear.	8
Exercise 2	-Preparation , fixation and staining of bone marrow smears	8
Exercise 3	-Prussian blue (Perl's reaction) staining for iron on bone marrow smears & sections	8
Exercise 4	-PAS staining of blood & bone marrow smears	8
Exercise 5	MPO / Sudan black B staining of blood & bone marrow smears	8
Exercise 6	-Non- specific esterases staining of blood & bone marrow smears	8
Exercise 7	-Tests for quality management of equipments & reagents	12
	TOTAL =	60
NOTE:	The bone marrow for practical shall be collected from rabbit.	