

Course Overview

Diagnostic Hematology

Course code :	LMT503
Course title:	Diagnostic Hematology
Level/semester:	Fifth Semester
Preceding Courses & Main Subjects	-Biology , Chemistry -Human Anatomy & Physiology
Credit hours:	Theoretical: 2
	Practical: 1

Course Title: Haematology (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: Haematology (Practical)

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