

## Course Overview

### Blood Bank

<b>Course code :</b>	LMT505
<b>Course title:</b>	Blood Bank
<b>Level/semester:</b>	<b>Fifth Semester</b>
<b>Preceding Courses &amp; Main Subjects</b>	Biology , Chemistry -Human Anatomy & Physiology -Haematology
<b>Credit hours: 4</b>	<b>Theoretical: 3</b>
	<b>Practical: 2</b>

Course Title: Blood Banking ( Theory )

UNIT	CONTENTS	HOURS
UNIT 1	- Immunohaematology - ABO blood group system - Rh blood group system - Other blood group system	2
UNIT 2	- Direct and Indirect Antiglobulin (Coomb's) tests - Haemolytic disease of newborn - Identification of unexpected antibodies	2
UNIT 3	- Selection of blood donor , collection of blood and adverse donor reactions	2
UNIT 4	- Diseases transmitted through blood - Pretransfusion screening of blood	2
UNIT 5	- Preservation and storage of blood	1
UNIT 6	- Compatibility Procedures	1
UNIT 7	- Transfusion reactions and their investigation	1
UNIT 8	- Components of blood and their preparation	2
UNIT 9	- Transfusion Therapy - Exchange transfusion - Autologous transfusion	1
UNIT 10	- Record keeping & Quality management in	1

	blood bank	
	TOTAL	15

**Course Title:- Blood Banking- Practical—(To be carried out in the college)**

EXERCISE	CONTENTS	HOURS
Exercise 1	- ABO and Rh grouping	2
Exercise 2	-Direct Antiglobulin test	4
Exercise 3	- Indirect Antiglobulin test	4
Exercise 4	- Detection & Identification of Alloantibodies	4
Exercise 5	- Compatibility tests	4
Exercise 6	- Pretransfusion screening of blood for HB SAg, anti-HCV,HIV, HTLV1and VDRL /RPR / TPHA	6
Exercise 7	- Investigation of a case of Haemolytic transfusion reaction	2