

- **Assessment scheme**

10% Mid theory exam

15% Mid practical exam

8% Quiz

2% Activity

5% Reports

5% Seminars

10% Assignment

5% Homework

20% Final theory exam

20% Final practical

exam

- **Specific learning outcome:**

- 1) Apply principles of safety, quality assurance and quality control in blood bank
- 2) Evaluate specimen acceptability
- 3) Demonstrate an understanding of the underlying processes in blood cell disorders
- 4) Learn the most common medical terms in immunohematology.
- 5) Reflect analytically on student's study learning styles in order to be able to identify and review additional literature to enhance learning.
- 6) Compare and contrast immunohematological values under normal and abnormal conditions.
- 7) Perform and explain principles and procedures of tests to include sources of error and clinical significance of results.
- 8) Determine suitability of immunohematology specimens and dispose of them in the appropriate biohazard containers.
- 9) Apply the appropriate and safe medical procedure for checking blood transfusion
- 10) Awareness of the risks and complications of blood transfusion

- 4) Journal of Hematology: thejh.org/
 5) British Journal of Haematology: <https://onlinelibrary.wiley.com/journal/13652141>
 American Journal of Hematology - Wiley Online Library:
<https://onlinelibrary.wiley.com/journal/10968652>

Course topics (Theory)	Week	Learning Outcome
Introduction to blood bank	Week 1	Introduction to Blood Banking , blood composition, blood bank antigens and antibodies
Blood Donation and blood collection, types of deferrals, types of blood donors	Week 2	Blood Donation and blood collection, types of deferrals, types of blood donors
Types of blood donation	Week 3	Types of blood donation, donor selection, Pre-transfusion Testing, Donor and recipients basic testing
Blood transfusion and apheresis	Week 4	Blood transfusion and apheresis, Approved Anticoagulant Preservative Solutions, Additive Solutions, blood storage, Blood component labeling, Aphaeresis Definition and uses
Blood components apheresis	Week 5	Blood components apheresis, Therapeutic uses for apheresis, blood components life span, Apheresis of whole blood, Indication of whole blood transfusion
Transfusion reactions and complications	Week 6	Transfusion reactions and complications, Types of transfusion reactions, The causes of HTR, Events in haemolytic transfusion reaction, Role of transfusionist in HTR Measures used to protect the donor and donor selection, The preparation of blood from whole blood
	Week 7	
Non hemolytic transfusion reactions	Week 8	Antibody screening (Direct and indirect antiglobulin tests) Cross-matching

Examinations:

A- Theory Exam

Q1/ Select the correct answer for the following multiple choice: (X Marks)

Q2/ Choose the correct option to fill in the blanks: (X Marks)

Q3/ identify whether the following statements are true or false: (X Marks)

Q4/ Match the questions in column A to the “appropriate” answers in column B: (X Marks)

	A		B
1			
2			
3			
4			
5			

Q5/ Answer the following questions: (X Marks)

1) Principle of transfusion therapy

B- Practical Exam

Written part Move part

- Extra notes:

- External Evaluator

The outcome of course book evaluation is commonly more explicit and follows the principles and rules in general.

