



**KAMPALA
INTERNATIONAL
UNIVERSITY**

Course File: Form 02

**FACULTY OF CLINICAL MEDICINE AND DENTISTRY
KAMPALA INTERNATIONAL UNIVERSITY
FACULTY OF CLINICAL MEDICINE AND DENTISTRY
DEPARTMENT OF PATHOLOGY
COURSE TITLE: HAEMATOLOGY AND BLOOD TRANSFUSION**

BMS-215/BCM- 223 PATHOLOGY JUNE 2025- DECEMBER 2025

LECTURERS NAMES: - PROF IBANGA IQUO –Tel: +256 757384081

- DR. SURAT AKIB - Tel: +256 752574699

- DR.HABAYEB ABDALLATEEF OMER Tel: +256 779537554

SHIFT – DAY

Year [2025/2026]

COURSE OBJECTIVES:

By the end of this course the student should be able to:

1. Describe the formation and maturation sequence of each cell of the haemopoietic system including their regulatory mechanisms and know the normal ranges for blood cell counts.
2. Describe the roles of iron, vitamin B12 and folic acid in red cell development.
3. Discuss the structural and functional properties of the haemoglobin molecule, the genetics, clinical features and management of the common haemoglobinopathies.
4. Define anaemia in different ways.
5. Discuss the classification of the anaemias and the deficiencies of the haematinics in detail
6. Evaluate and outline the management of other red cell abnormalities.
7. Discuss the lymphoreticular system in terms of the structure and function of the spleen and its disorders.
8. Describe normal and abnormal haemostasis and be able to do the laboratory evaluation.
9. Discuss the neoplastic haematological disorders and outline the principles of their management.
10. Describe major blood groups, blood group serology and the principles behind transfusion of blood and its products.
11. Perform simple laboratory investigations in haematology and blood transfusion.



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MODE OF DELIVERY

E. Learning / Tutorials/ Practicals/ Role-plays and simulation sessions/Student presentations/Directed and independent self-study/
Essay writing

STUDENTS ASSESSMENT

1. Continuous assessment tests may comprise of MCQs, short essays, Random assessment tests, tutorials, practicals (40%)
2. End of course examination- MCQ, short essays (50%)
3. Viva Voce (10%)

WEEK OF SEMESTER	DATE	TOPICS	LECTURERS	MAIN REFERENCE	ADDITIONAL LITERATURE
Week 1	30/06-04/07/ 2025	A. NORMAL HAEMATOLOGY 1. Introduction to Haematology 2. Haemopoiesis 3. Haemoglobin-Structure & Function 4. Normal blood ranges/Red cell Indices	Dr. AKIB	Hoffbrand's Essential Haematology A. Victor Hoffbrand , David P. Steensma 8th Edition	Clinical Hematology Atlas Bernadette F. Rodak, Jacqueline H. Carr 6th Edition
Week 2	07 -11/07/ 2025	5.Anticoagulants/ stains used in the laboratory/ Transport of Blood Specimens/Processing Times for Blood 6. Normal Haemostasis 7. Tests of Haemostatic Function	DR. AKIB PROF IBANGA		Dacie and Lewis Practical Haematology Barbara Jane Bain , Imelda Bates , Mike A. Laffan 12 th Edition

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Week 3	14 - 18/07/ 2025	B. HAEMATOLOGICAL DISORDERS 1. Definition and Classification of Anaemia 2. Compensatory mechanisms in Anaemia 3. Abnormal red cell shapes/ Red cell Inclusions	DR AKIB		Oxford Handbook of Clinical Haematology Drew Provan, Trevor Baglin Inderjeet Dokal , Johannes de Vos 4th Revised edition
Week 4	21 -25 /07/2025	4. Disorders of iron - Iron Metabolism - Iron deficiency Anaemia - Sideroblastic anaemia - Iron Overload - Haemochromatosis - Haemosiderosis	DR HABAYEB		Haematology Chris S. R. Hatton , Nevin C. Hughes-Jones , Deborah Hay , David Keeling 9th Revised edition
Week 5	28/07 – 01/08/2025	5. Megaloblastic Anaemias -Vitamin B12 deficiency - Folic acid deficiency	DR HABAYEB		Hutchison's Clinical Methods: An Integrated Approach to Clinical Practice Michael Glynn MA MD FRCP FHEA, (M Drake DM) 24 th edition
Week 6	04 -08/08/2025	TUTORIALS SET 1	PROF IBANGA DR HABAYEB DR AKIB		Davidson's Principles and Practice of Medicine: Mark W.J. Strachan, Nicki R Colledge. Stuart H. Ralston

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					24 th Edition
Week 7	11 -15/08/2025	6. Haemolytic Anaemias - G6PD deficiency - Pyruvate kinase deficiency - Hereditary Spherocytosis - PNH - Sickle Cell Diseases	PROF IBANGA		
Week 8	18 -22/08/ 2025	-Thalassaemias - Autoimmune Haemolytic anaemia	PROF IBANGA		
Week 9	25 -29/08/ 2025	7. Anaemia of Bone Marrow Failure 8. Disorders of the spleen -Asplenia - Hypersplenism -Tropical Splenomegaly Syndrome	DR HABAYEB		
Week 10	01 -05/09/ 2025	PRACTICALS 1	PROF IBANGA DR HABAYEB DR AKIB		
Week 11	08 -12/09/ 2025	CAT WEEK			
Week 12	15 -19/09/2025	C. HAEMOSTATIC DISORDERS 1. Disorders of Haemostasis - Platelet Disorders - ITP, TTP, HUS -Vascular Disorders - Coagulation Disorders - Congenital - Haemophilia - Von Willebrand	PROF IBANGA		

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Week 13	22- 26/09/ 2025	<ul style="list-style-type: none"> - Acquired - Anticoagulant overdose - DIC, - Vitamin K deficiency - Liver Disease <p>2. Thrombosis and Anticoagulation</p>	PROF IBANGA		
Week 14	29/09- 03/10/ 2025	<p>D. NEOPLASTIC DISORDERS</p> <p>1. Lymphomas</p> <ul style="list-style-type: none"> -Hodgkins Lymphoma -Non Hodgkins Lymphoma - Burkitts Lymphoma <p>2. Multiple Myeloma</p>	DR HABAYEB		
Week 15	06 -10/10/2025	<p>3. Leukaemias</p> <ul style="list-style-type: none"> - Acute Leukaemias - Chronic Leukaemia <p>4. Myeloproliferative Disorders</p> <ul style="list-style-type: none"> - Polycythaemia - Essential Thrombocythaemia - Myelofibrosis 	DR HABAYEB		
Week 16	13- 17/10/ 2025	<p>E. BLOOD TRANSFUSION</p> <p>1. Red Blood Cell Antigens</p> <p>2. Blood Donation</p> <p>3. Blood Component Therapy</p> <p>4. Blood Preservation/ Pre- Transfusion Tests</p>	DR AKIB		
Week 17	20- 24/10/ 2025	<p>5. Red Blood Cell Antibodies</p> <p>6. Haemolytic Disease of the Newborn</p> <p>7. Complications of Blood</p>	DR AKIB		



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		Transfusion 8. Bone marrow transplant			
Week 18	27/10- 01/11/ 2025	PRACTICALS	PROF IBANGA DR HABAYEB DR AKIB		
Week 19	03- 07/11/ 20	TUTORIALS SET 2	PROF IBANGA DR HABAYEB DR AKIB		
Week 20	10- 14/11/ 2025	TUTORIALS SET 3	PROF IBANGA DR HABAYEB DR AKIB		
Week 21	17- 21/11/2025	REVISION WEEK			
Week 22- Week 23	24/11/2025- 5/12/2025	PATHOLOGY EXAMS	PROF IBANGA DR HABAYEB DR AKIB		