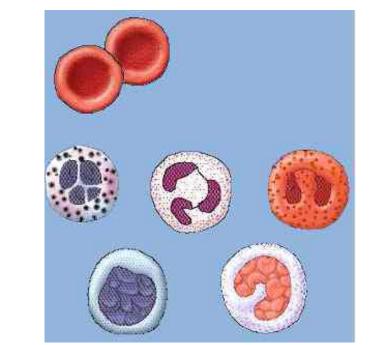




كلية الطب الدراسات العليا وحدة ضمان الجوده





Clinical Haematology

Master Degree

Credit point bylaws 2022-2023

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Personal photo

Name	
Date of birth	
Permanent	
Address	
Telephones	Mobile
phone(s)	
E mail	•••
Specialty before	
Date of acceptance for Master degree/	./
Previous Experiences	

NAME OF HOSPITAL	PERIOD OF WORK	HOSPITAL DIRECTOR SIGNATURE	STAMP

ACADEMIC DETAILS

Degree Institute University Year of	Passing
MBBS///	University
MD//	University
Others///	-
······/····/	-

INTRODUCTION

An introductory course forms part of the training in general medicine ward with special stress in five specialties in the 1st year. It includes training in emergency medicine, liver and gastrointestinal diseases, autoimmune and connective tissue diseases, heart diseases and diabetes mellitus and common endocrinal diseases. It also includes 2 months training in Clinical Haematology unit.In the 2nd and 3rd years of training focused on last 5 modules; the 1st 4 of them run parallel course.

<u>Aim</u>

On completion of the educational programme the trainee should :

- Participate in General Haematology Outpatient Clinics
- Be responsible for the day to day management of ward inpatients and day care patients
- Liaise with colleagues in Medicine and consult with other specialties
- Be exposed to all aspects of benign and malignant Haematology.
- Be able to understand the laboratory haematological practice .
- Be able to do common diagnostic and therapeutic techniques required in the practice of haematology
- Have fair communication skills required for the practice of clinical haematology.

The components of training are:

The trainee will spend in **General Medical ward , including medical emergencies**, one year rotating in 6 medical specialties at a minimum of 2 months duration. Throughout this period, the on-call duties shall be carried out in medicine. The aim of the training is to produce the multi-competent junior doctors able to recognize and manage general medicine patients.

• Clinical hematology modules including laboratory hematology (2 years). During the this period the trainee will:

- Participate in General Haematology Outpatient Clinics
- Be responsible for the day to day management of ward inpatients and day care patients
- Liaise with colleagues in Medicine and consult with other specialities
- Be exposed to all aspects of benign and malignant Haematology, including Thalassaemia, congenital bleeding disorders, thrombotic disorders, palliative care and remission treatments for haematological malignancies like leukaemias, lymphomas and myeloma.
- Electively the trainee be attached either to the Transfusion Department or a stem-cell transplantation centre for three months.
- Present one audit a year and participate in departmental meetings
- The trainee should be guaranteed a minimum of four hours protected time per week to regularly attend the academic meetings within the department.

• The trainee should do or share in at least 50% of the number of required cases.

External References:

- The training programs is similar to that approved by Royal Colleges of Physicians Training Board (MAY 2007) regulations. Joint Royal Colleges of Physicians Training Board (MAY 2007), (http://www.gmcuk.org/Haematology_3_Jul_07_v.Curr_0017.pdf_30541824.pdf)
- ► ACGME (Accreditation Council for Graduate Medical Education).

Curriculum Structure:

Duration of program 36 months divided into

Program Structure

Program Time Table

Duration of program 3 years maximally 5 years divided into

o Part 1

Program-related basic science courses and ILOs + elective courses Students are allowed to set the exams of these courses after 12 months from applying to the M Sc degree.

o Thesis

For the M Sc thesis;

MSc thesis subject should be officially registered within 6 months from application to the MSc degree,

Discussion and acceptance of the thesis should not be set before 12 months from registering the M Sc subject;

It could be discussed and accepted before passing the second part of examination)

o Part 2

Program –related speciality science courses and ILOs

Students are not allowed to set the exams of these courses before 3 years from applying to the MSc degree.

n.b. Fulfillment of the requirements in each course as described in the template and registered in the log book is a pre-request for candidates to be assessed and undertake part 1 and part 2 examinations.

Weighting the	e assessment	
	Credit point	% from total
 Basic courses 	24(14 didactic+10 training)	15.2%
 Humanity and social courses 	-	
 Specialized courses 	134 (24 didactic +110 training)	84.8%
Others(Computer,)	-	-
1 st Part (Basic and (Clinical Courses)	

1 st Part	(Basic and	Clinical	Courses)	

Modules / Units		Course Code	total Credit point	Lectures	traini ng
Course 1	Physiology &Biochemistry	BLO218 A#	2	2	-
Course 2	Pharmacology& Pathology	BLO218B#	2	2	-
Course 3	Microbiology and Immunology	BLO207	2	2	-
Course 4	Clinical Pathology1	BLO231A	2	2	-
Course 5	Internal Medicine related to Haemtology	BLO218C	13	5	8
Course 6	Clinical Haematology 1 Introduction to Blood diseases	BLO218D	3	1	2

1st Part (Basic and clinical Courses) 700 Marks

Modules/ Units		Total	Total Written	Total Oral	Practical
Course 1	Physiology & Biochemistry	100	40	60	
Course 2	Pharmacology & Pathology	100	40	50 (20+30)	10 for pathology
Course 3	Microbiology and Immunology	100	40	30	30
Course 4	Clinical Pathology 1	100	40	40	20
Course 5	Internal Medicine related to Haemtology	250	150	30	70
Course 6	Clinical Haematology 1	50	30	10	10
	1st Part total Marks	700	340	220	140

Examination papers for 1 st part			
Paper			
1	Physiology & Biochemistry		
2	Pharmacology & Pathology		
3	Microbiology and Immunology		
4	Clinical Pathology 1		
5	Internal Medicine related to Haemtology		
6	Clinical Haematology 1 Introduction to Blood diseases		

Elective course : 2 credit point The student choose One of the following :

1- Medical statistics.

2- Evidence based medicine.

3- Medicolegal Aspects and Ethics in Medical Practice and Scientific Research

4- Quality assurance of medical education.

5- Quality assurance of clinical practice.

6-Hospital management

Clinical Hematology 2nd Part

Т	'otal 2 nd Part	t (1200 Marks)	
	Written	Oral, Clinio	cal &laboratory hematology 600
Clinical haematology 2 paper 1 Clinical haematology 2 paper 2	150 150		
Clinical haematology 2 paper 3 (haematology related to internal medicine)	150	شفوی واشعةوعينات وكراسةانشطة	PRACTICAL
Clinical haematology 2 paper 4 (Advanced clinical pathology 2+ problem solving + MCQ)	150		
	600	200	400

Components of Training Programme

Modules/ Units' Titles' list

1- Basics of: Physiology, biochemistry, Pharmacology, pathology, clinical pathology, microbiology and immunology,

2- General medical specialties and medical emergencies

3-Haematopoiesis, Benign RBCs and WBCs diseases

4- Blood clotting and its disorders.

5-Haematological Malignancies

6-Basic Laboratory hematology

7-Transfusion therapy (blood bank) or Bone Marrow transplantation

Basic medical sciences

SPECIALITY	DIAGNOSIS
	Bone marrow diseases & interpret BM trephine biopsy
Pathology	Lymphomas (Hodgkins' Disease and NHL)
	Granulomas including TB lymphadenopathy
	Introduction to immuno-histochemistry
	Making and staining of a peripheral blood film
	Setting up the use of a light microscope
	Analysis and interpretation of blood films and differential white blood cell count and red blood cell abnormalities
Clinical	Interpretation of bone marrow aspirate
Pathology	Diagnosis of malignant haematological disorders
	Aplastic Anaemia and myelodysplastic syndromes
	Interpretation of the results of Platelet function tests, haemostasis and cross matching
	Interpretation of clinical chemistry reports
	Introduction to flow-cytometry

	Infections in immune deficient patients	
	Disinfection measures	
	General bacteriology	
	Tuberculosis	
Microbiology	General virology	
& immunology	Hepatitis viruses	
8,	Viruses inducing haematological diseases (HIV, CMV, EBV, Parvo v)	
	Common systemic fungal infections	
	Immune reactions and autoimmunity	
	HLA typing	
	Cell Biology and biomarkers	
Clinical	Nutrition and deficiency disorders	
Chemistry	Enzyme deficiency disorders	
	Metabolic haematology disorders	
	Physiology of blood and hemostsis	
	Physiology of Cariovascular system	
	Physiology of Respiratory system	
Physiology	Physiology of Liver and GIT system	
	Physiology of Kidney	
	Physiology of endocrine system	
	Pharmacology of anaemia, iron, folic acid and B12 supplementation	
	Outline the mechanisms of action of pharmacological platelet inhibitors	
	pharmacological and nonpharmacological clotting inhibitors	
	Cancer chemotherapy for haematological malignancies	
Pharmacolog	Hemoglobinopathies and use of Hydroxyurea	
У	Hemolytic Disorders: Drug-Induced Hemolytic Anemia Medications in G6PD Deficiency	
	Medication Causes of Neutropenia	
	Medication Causes of Lymphadenopathy	
	Drug Induced Platelet Dysfunction	

Course 1unit 1 (Physiology)

Requirements

• Credit points: 1 credit point.

• Attendance of at least 80% of lectures

Name of the course	Credit points	Responsible department	Attendance	Percentage of Achieved points
Physiology	0.5		5 hours -Physiology of blood and haemostasis. -Physiology of Cardiovascular system. -Physiology of Respiratory system.	50%
	0.5	Physiology	5 hours -Physiology of Liver and GIT system. -Physiology of Kidney. -Physiology of endocrine system.	50%
Student signature			Principle coordinator signature	Head of the departmen t signature

Physiology lecture

Date	Attendance	Торіс	Signature

Course 1unit 2(Biochemistry)

Requirements

• Credit points: 1 credit point.

• Attendance of at least 80% of lectures

Name of the course	Credit points	Responsible department	Attendance	Percentage of Achieved points
	0.5		5 hours - Cell Biology and biomarkers - Nutrition and deficiency disorders	50%
Biochemistry	0.5	Biochemistry	5 hours - Enzyme deficiency disorders -Metabolic hematology disorders	50%
Student signature			Principle coordinator signature	Head of the department signature

Biochemistry lectures

Date	Attendance	Торіс	Signature

Course 2unit 1(Pharmacology)

Requirements

- Credit points: 1 credit point.
- Attendance of at least 80% of lectures

Name of the course	Credit points	Responsible department	Attendance	Percentage of Achieved points
Pharmacology	0.5		5 hours -Pharmacology of anaemia, iron, folic acid and B12 supplementation -Outline the mechanisms of action of pharmacological platelet inhibitors - pharmacological and nonpharmacological clotting inhibitors Drugs causing BM suppression -Cancer chemotherapy for haematological malignancies	50%
Stude	0.5	Pharmacology	5 hours Hemoglobinopathies and use of Hydroxyurea Hemolytic Disorders: Drug-Induced Hemolytic Anemia Medications in G6PD Deficiency - Medication Causes of Neutropenia Medication Causes of Lymphadenopathy Principle	50% Head of the
nt signat ure			coordinator signature	department signature

Pharmacology lectures

Date	Attendance	Торіс	Signature

Course 2 unit 2 (Pathology)

Requirements

• Credit points: 1 credit point.

• Attendance of at least 80% of lectures

Name of the course	Credit points	Responsible department	Attendance	Percentage of Achieved points
	0.5		5 hours - Thrombosis and embolism - Inflammation - Immunity & hypersensitivity. - Tuberculosis, granulomas & Bilharziasis - Pathology of tumors	50%
pathology	0.5	Pathology	5 hours - Bone marrow diseases & interpret BM trephine biopsy -Lymphomas (Hodgkins' Disease and NHL) -Granulomas including TB lymphadenopathy -Introduction to immuno- histochemistry Diagnostic cytology	50%
Student signature			Principle coordinator signature	Head of the department signature

Pathology lectures

Date	Attendance	Торіс	Signature

Course 3 (Microbiology & Immunology)

Requirements

• Credit points: 2 credit point.

• Attendance of at least 80% of lectures

Microbiology & Immunology110 hours ·General bacteriology ·Tuberculosis ·General virology ·Hepatits viruses ·Viruses inducing haematological diseases (HIV, CMV, EBV, Parvo virus) ·Common systemic fungal infections 10 hours50 % % infections and autoimmunity ·Infections in immune deficient patients50 %Student signature1Microbiolo gy & Immunology50 %1Microbiolo gy & immune reaction and autoimmunity ·Infections in immune deficient patients50 %11Microbiolo gy & immune reaction and set or manue for eaction and autoimmunity ·Infections in immune deficient patients50 %11Head of the departmen t signatureHead of the departmen t signature	Name of the course	Credit points	Responsible department	Attendance	Percentag e of Achieved points
Student signaturePrinciplethe departmensignaturet	&		gy & Immunolog	•General bacteriology •Tuberculosis •General virology •Hepatitis viruses •Viruses inducing haematological diseases (HIV, CMV, EBV, Parvo virus) •Common systemic fungal infections 10 hours •Immune reaction and autoimmunity •Infections in immune deficient patients •HLA typing and stem cell	%
signature				coordinator	the

Microbiology & Immunology lectures

Date	Attendance	Торіс	Signature

Course 4 (Clinical Pathology)

Requirements

• Credit points: 2 credit point.

• Attendance of at least 80% of lectures

Name of the course	Credit points	lesponsible department	Attendance	Percentage of Achieved points
Clinical Pathology	1	Clinical Pathology	 10 hours Making and staining of a peripheral blood film Setting up the use of a light microscope Analysis and interpretation of blood films and differential white blood cell count and red blood cell abnormalities Interpretation of bone marrow aspirate 10 hours Diagnosis of malignant haematological disorders Aplastic Anaemia and myelodysplastic syndromes Interpretation of the results of Platelet function tests, haemostasis and cross matching Interpretation of clinical chemistry reports Introduction to flow- 	50%
Steeder (cytometry	Head of the
Student signature			Principle coordinator signature	department signature

Clinical Pathology lectures

Date	Attendance	Торіс	Signature

Clinical Pathology training

Date	Attendance	Торіс	Signature

Course 5 (Internal Medicine related to Haemtology)

Requirements

• Credit points: 13 credit point: 5 credit point for didactic (lectures,

seminars, tutorial) and 8 point for training.

• Attendance of at least 80% of the course

Name of the course	Credit points	Responsible department	Attendance	Percentage of Achieved points
Internal Medicine related to (Haematology	1		10 hours •endocrinology and nutrition • Diabetes mellitus • Thyroid diseases & •Parathyroid • Adrenal gland diseases	20%
	1	Internal Medicine	10 hours • Hepatology &Gastroenterology -Liver cirrhosis and liver cell failure -Gastritis, ileitis, colonic disorders, malabsorption & inflammatory bowel diseases -GIT and liver in systemic disease -Upper and lower GIT bleeding	20%
	1		10 hours Collagen vascular and systemic diseases -SLE -RA, Sjogren Syndrome and mixed CT disease -Vasculitis	20%

	1	10 hours Cardiology -Heart failure - Rheumatic fever - Valvular heart diseases -Arrhythmia - Hypertension - Ischemic heart disease - Cardiomyopathy	20%
	0.5	5 hours Pulmonary Medicine -Obstructive lung diseases -Restrictive lung disorders, Sarcoidosis & Idiopathic pulmonary fibrosis -Lung in systemic diseases -Pulmonary vascular disorders - Pulmonary infections	10%
	0.5	5 hours -Neurological diseases -Cerebrovascular strokes - Myelopathy -Meningitis and encephalitis -Neuropathies	10%
Student signature		Principle coordinator signature	Head of the department signature

Course 6 (Clinical Haematology 1 Introduction to Blood diseases)

Clinical training	Credit points	Responsible department	Attendance	Percentage of Achieved points
Clinical training Internal Medicine related to (Haemtology	1		1 week in Nephrology Unit - Log of 2 cases a-Renal failure b-Nephritis c- Nephrotic syndrome	12.5%
	2		2 weeks in Cardiology Unit - Log of 2 cases a-Heart failure b- Rheumatic fever c- Valvular heart diseases d-Arrhythmia e- Hypertension - Log of 20 ECG.	25%
	2		2 weeks Emergency Department	25%
	3	Internal Medicine *Dept. Neurology	3 weeks in Internal Medicine Department -Log of 2 cases - Endocrinology a- Diabetes mellitus b- Thyroid diseases c- Adrenal gland diseases d- Obesity -Hepatology &Gastroenterology a- Liver cirrhosis and liver cell failure Collagen vascular and systemic diseases a- Cerebrovascular stroke b- Myopathy*	37.5%
Student signature			Principle coordinator signature	Head of the department signature

Requirements

• Credit points: 3 credit point. 1 credit point for didactic

(lectures, seminars, tutorial) and 2 point for training.

• Attendance of at least 80% of the course

Name of the course	Credit points	Responsible department	Attendance	Percentage of Achieved points
Clinical Haematology 1 Introduction to Blood diseases (didactic)	1	Clinical Haematology unit	10 hours • Basic of -RBCs related disorders as anaemia -WBCs disorders and hematological malignancies -Coagulation disorders	100%
Clinical training Clinical	1		Attendance of at least 2 weeks in the Outpatient clinic (3 hours /day)	50%
Haematology 1 Introduction to Blood diseases	1		Clinical teaching 2 hours /week for 15 week	50%
Student signature			Principle coordinator signature	Head of the department signature

Course 7 Specialized courses

Clinical Haematology 2 Requirements

Credit points: 134 credit point, 24 credit point for didactic (lectures, seminars, tutorial) and 110 point for training (14)

credit point during year 1 and 96 credit point during year 2, 3).

• - Minimal rate of attendance 80% of training and didactic

Clinical training	Credit points	Responsible department	Attendance	Percentage of Achieved points
Clinical training in Clinical hematology unit	4	Clinical hematology unit	Practice with clinical cases for at least 1 month in the Clinical hematology unit including interpretation of their different CBC and related laboratory investigation > Log of hematological cases as mentioned below	28.6%
	5		Night shift (From 2pm to 8am) 1/week for 10 weeks	35.8%

Year 1

	1	 Attendance of at least 2 weeks in the Outpatient clinic (3 hours /day) 	7.1 %
	2	 Attendance of at least 30% of clinical rounds (2 hours /week for 30 week) 	14.3%
	1	Clinical teaching 2 hours /week for 15 week	7.1%
	1	Formative assessment	7.1%
Student signature		Principle coordinator Signature	Head of the department signature

Year 2

(13 credit point for didactic) & (46 credit point for training)

1-13 credit point for didactic (lectures, seminars, tutorial,

C	>
conterence	۱
conference	,

		01	iterence)	
Name of the course	Credit points	Responsible unit	Attendance	Percentage of Achieved points
54.2 % of Clinical haematology course	13	Clinical hematology unit	Year 2	100%
	9.25 CP		Topics and attendance 92.25 hour attendance	71.15%
	1.5	Clinical hematology unit	Year 2	
Haemopoiesis RBCs and WBCs	0.5		5 Hours - Iron, Vitamin B12 and folic acid metabolism - RBC & Hb physiology	
	0.5		5 Hours - WBC & platelet physiology - Haemostasis system and its control	
	0.5		5 Hours - Cellular and humoral immunity -Cytogenetics and molecular basis of oncology -Application of nuclear medicine in haematology	
Red blood cell	2.25	Clinical hematology unit		
disorders	0.25		2.5Hours - Megaloblastic anaemia	
	0.25		2.5Hours - Iron deficiency anaemia	

			and microcytic	
			hypochromic anaemia	
			5 Hours	
	0.5		- Inherited hemolytic	
			anaemias	
			2.5Hours	
	0.25		- Acquired hemolytic	
			anaemias	
			5 Hours	
	0.5		- Acquired and	
	0.00		constitutional aplastic	
			anaemia	
	0.25		2.5 hours	
	0120		- Iron overload disorders	
			2.5Hours	
	0.25			
	0120		Polycythaemia	
	1 5	Clinical		
	1.5	hematology		
-		unit	2.5.1	
	0.25		2.5 hours	
	0.25		Leucopenias and leucocytosis	
Benign			5 Hours	
WBCs	0.5		Myelofibrosis	
disorders			2.5 hours	
uisoruers	0.25		Primary and secondary	
	0.20		immunodeficiency diseases	
			5 Hours	
			Reactive lymphocyte	
	0.5		disorders and	
			lymphadenopathy	
		Clinical		
	4	hematology		
		unit		
Haematological			5 hours	
Malignacies	0.5		Acute myeloid	
			leukemias	
[5 hours	
	0.5		Myelodysplastic	
			Syndrome	

Student signature	0.75 CP	Formative assessment(MCQ-) Principle coordinator Signature	5.85% Head of the department signature
	0.5 CP	Conference or workshop	3.8%
		 80% of the clinical seminars for residence Attendance of at least 70% of the clinical seminars for the external Presentation of at least 1 time in the seminar 	19.2%
	2.5 CP	Seminars 2 hours- once / week for at least 8 month > Attendance of at least -	
	0.5	5 hours Heavy chain disease and Waldenstrom Macroglobulinaemia and Hairy cell leukaemia	
	0.5	5 hours Multiple Myeloma and Plasma cell disorders	
	0.5	5 hours Hodgkin's disease and Non Hodgkins's lymphoma	
	0.5	5 hours <u>Myelopoiferaive disorders:</u> Chronic meyloid leukaemia, Polycythemia Vera, myelofibrosis and ET	
	0.5	5 hours Chronic lymphocytic leukaemia	
	0.5	5 hours Acute lymphoblastic leukaemia	

Year 2 (46 credit point for training)

Clinical training	Credit points	Responsible department	Attendance	Percentage of Achieved points
Clinical training in Clinical hematology unit	46	Clinical hematology unit	Year 2	
	16		 Practice with clinical cases for at least 4 month in the department including interpretation of their different CBC and related laboratory investigation Log of hematological 	34.8%
	16		 Night shift (From 2 pm to 8 am) 2 night shift /week for 16 week 	34.8%
	2		 Attendance of at least 30% of clinical hematology rounds (2 hours/day for 30 week) 	4.4%
	6		 Attendance of at least 12 weeks in the Outpatient clinic(3 hours/day) 	13%
	3		Clinical teaching 6 hours /week/ for 15 week	6.5%
	3		 Formative assessment (Mini clinical exam) 	6.5%
Student signature			Principle coordinator Signature	Head of the department signature

Year 3

(11 credit point for didactic & 50 credit point for

training)

1- 11 credit point for didactic (lectures, seminars, tutorial, conference)

Name of the course	Credit points	Responsible unit	Attendance	Percentage of Achieved points		
45.8 % of Clinical haematology	11	Clinical hematology unit	Year 3	100%		
course	7.75 CP	Clinical hematology	Topics and attendance 77.5 hour attendance	70.55 %		
	3.5	unit	Year 3			
Haemostatic Disorders & Thrombophilia	0.5		5 hours Hemophilia, von Willebrand's disease and other hereditary coagulation disorders			
	0.5		5 hours Acquired coagulation disorders (DIC & liver dis.)			
	0.25		2.5 hours Thrombotic thrombocytopenic Purpura and HUS			
	0.25		2.5 hours Thrombocytopenias – acquired and hereditary			
	0.5		5 hours Qualitative platelet disorders and Hereditary vW disease			
	0.25		2.5 hours Vascular purpuras			
	0.5		5 hours Hereditary and acquired			

			thrombophilias	
	0.5		5 hours Anticoagulation and its disorders	
	0.25		2.5 hours Thrombocytosis reactive and ET	
Blood Bank and transfusion Medicine	1	Clinical hematology unit and blood banks		
	0.25		 2.5 hours Indications and hazards of transfusion Medicine Transfusion of red blood cells 	
	0.25		2.5 hours Platelet transfusion and Apharesis	
	0.25		2.5 hours Fresh frozen plasma , Old plasma and Cryoprecipitate	
	0.25		2.5 hours Autologous blood transfusion and Intravenous immunoglobulin	
Bone Marrow Transplantatio n	1	Clinical hematology unit and clinical pathology department		
	0.25		2.5 hours Bone marrow harvesting Stem cell transplant conditioning protocols	
	0.25		2.5 hours Prepheral blood stem cell mobilization and harvesting Infusion of stem cell	
	0.25		2.5 hours Autologous bone marrow	

			and blood stem cell transplantation Allogenic bone marrow and blood stem cell transplantation	
	0.25		2.5 hours Blood product support of stem cell transplantation Complications of stem cell transplantation	
Laboratory Hematology for Specialist	2.25	Clinical hematology units of clinical pathology and internal medicine department		
	0.25		2.5 hours Blood Films normal , benign and malignant	
	0.25		2.5 hours Bone Marrow Aspirate Bone Marrow Biopsy	
	0.25		2.5 hours Workup of Hemoglobinopath Workup of Hemolytic Anemia Sickle Test	
	0.5		5 hours Hemoglobin Electrophoresis Manual and Automated Hemostasis Testing	
	0.5		5 hours Platelet Function Tests Workup of Hemophilia Workup of Thrombophilia	
	0.5		5 hours Flowcytometry introduction , basis , clinical application	

		and interpretation in benign and malignant hematological disorders	
	2 CP	Seminars 2 hours- once / week for at least 7 month > Attendance of at least - 80% of the clinical seminars for residence > Attendance of at least 70% of the clinical seminars for the external > Presentation of at least 1 time in the seminar	18.2%
	0.5 CP	Conference or workshop	4.5%
	0.75 CP	Formative assessment(MCQ-	6.75%
Student signature		Principle coordinator Signature	Head of the department signature

Year 3 (50 credit point for training)

Clinical training	Credit points	Responsible department	Attendance	Percentage of Achieved points
Clinical training in Clinical hematology unit	50	Clinical hematology unit	Year 3	
	16		 Practice with clinical cases for at least 8 month in the department including interpretation of their different CBC and related laboratory investigation Log of hematological CASES 	34.8%
	16		Night shift (From 2 pm to 8 am) 2 night shift /week for 16 week	34.8%
	1.5		 Attendance of at least 30% of clinical hematology rounds (6 hours/week for 23 week) 	4.3%
	1.5		 Attendance of at least 30% of laboratory hematology rounds (6 hours/week for 23 week) 	
	6		Attendance of at least 12 weeks in the Outpatient clinic(3 hours/day)	12.9%
	6		 Clinical teaching 6 hours /week/ for 30 week 	6.45%
	3		 Formative assessment 	6.45%
Student signature			Principle coordinator Signature	Head of the department signature

	CV strokes	20		
	Metabolic Comas	20		
	Shock 2ry to medical problem			
	Metabolic Acidosis & electrolyte imbalance			
Emergency	Acute abdomen			
medicine	Life-threatening infections	20		
	Severe immune deficiency			
	Acute Myocardial Infarction	10		
	Meningitis and encephalitis	10		
	Convulsions	10		
	Liver cirrhosis	20		
	HC failure	20		
	Obstructive jaundice	10		
Liver and GIT	Ascites	20		
diseases	Upper GIT bleeding	20		
	Lower GIT bleeding	10		
	Severe GIT infections	10		
	Infectious and inflammatory bowel diseases	10		
	SLE	20		
	RA and mixed CT disease			
Autoimmune	Polyarthritis & Rh. fever			
diseases	Polyarteritis and polymyalgia			
	Gout			
	Vasculitis			
	Rheumatic heart diseases	20		
	Infective endocarditis	10		
	Heart Failure (left and right side HF)	20		
Heart diseases	Ischemic heart Diseases	20		
	Hypertension and renovascular diseases	20		
	Arrhythmias	20		
	Cardiomyopathy	10		
	COPD & ILD	20		
	Respiratory failure & artificial ventillation	20		
Pulmonary disease	Suppurative Lung Diseases	20		
unional y ulscast	Pleural and mediastinal diseases	20		
	Malignant lung diseases	10		
	Severe opportunistic lung infections	.10		
	Control of hyperglycemia in DM	20		
	Diabetic Comas	$\frac{20}{20}$		
viabetes Mellitus &	Management of chronic complication of DM	$\frac{20}{20}$		
Endocrine diseases	Hyper and Hypothyroidism Adrenal disorders	$\frac{20}{20}$		
·	Disorders of calcium and bone	<u> </u>		
	Hypothalamic and Pituitary diseases	<u> </u>		

			LEC	
		NO.	. OF	
SPECIALITY	DIAGNOSIS	CAS	SE	
		ES	MIN AR	
	Iron, Vitamin B12 and folic acid metabolism	-	1	
	RBC & Hb physiology	-	1	
Haemopoiesis	WBC & platelet physiology	-	1	
RBCs	Haemostasis system and its control	-	1	
and WBCs	Cellular and humoral immunity	-	1	
	Cytogenetics and molecular basis of oncology		1	
	Application of nuclear medicine in haematology		1	
	Megaloblastic anaemia	20	1	
	Iron deficiency anaemia	40	1	
Red blood cell	Inherited hemolytic anaemias	40	1	
disorders	Acquired hemolytic anaemias	30	1	
uisoi uci s	Acquired and constitutional aplastic anaemia	30	1	
	Iron overload disorders	10	2	
	Polycythaemia	10	1	
Donian	Leucopenias and leucocytosis	20	1	
Benign WBCs	Primary and secondary immunodeficiency diseases	10	1	
disorders		20	1	
aisoraers	Reactive lymphocyte disorders and lymphadenopathy Myelofibrosis	20	1	
	Acute myeloid leukemias	20	1 2	
		30	$\frac{2}{2}$	
	Myelodysplastic Syndrome	<u> </u>	2 1	
	Acute lymphoblastic leukaemia		1 1	
	Chronic lymphocytic leukaemia	10		
Haematologica l Malignacies	<u>Myelopoiferaive disorders:</u> Chronic meyloid leukaemia, Polycythemia Vera, myelofibrosis and ET	20	2	
	Hodgkin's disease and Non Hodgkins's lymphoma	30	2	
	Multiple Myeloma and Plasma cell disorders	10	1	
	Heavy chain disease and Waldenstrom	E		
	Macroglobulinaemia	5	1	
	Hairy cell leukaemia	2		
	Hemophilia, von Willebrand's disease and other	20	2	
	hereditary coagulation disorders			
	Acquired coagulation disorders (DIC & liver dis.)	20	2	
	Thrombotic thrombocytopenic Purpura and HUS	5	1	
Haemostatic	Thrombocytopenias – acquired and hereditary	30	3	
Disorders &	Qualitative platelet disorders and Hereditary vW disease	20	1	
Thrombophilia	Vascular purpuras	5	1	
	Hereditary and acquired thrombophilias	5	1	
	Anticoagulation and its disorders	10	1	
	Thrombocytosis reactive and ET	5	1	
Blood Bank	Indications and hazards of transfusion Medicine	10	1	

and	Transfusion of red blood cells	20	
transfusion	Platelet transfusion	20	
Medicine and	Apharesis	10	
	Fresh frozen plasma	20	
	Old plasma	10	1
	Cryoprecipitate	20	
	Autologous blood transfusion	5	
	Intravenous immunoglobulin	5	1
	Bone marrow harvesting	10	
	Stem cell transplant conditioning protocols	10	
	Prepheral blood stem cell mobilization and harvesting	10	
	Infusion of stem cell	10	
Bone Marrow	Autologous bone marrow and blood stem cell	10	2
Transplantatio	transplantation		_
n	Allogenic bone marrow and blood stem cell transplantation	10	
	Blood product support of stem cell transplantation	10	
	Complications of stem cell transplantation	10	
	REPORTING OF BLOOD FILMS AND MARROW		1
	ASPIRATES	40	2
	Blood Films normal, benign and malignant	40	3
	Bone Marrow Aspirate	20	3
	Bone Marrow Biopsy	10	1
	HEMOGLOBINOPATHY LABORATORY:		2
	Workup of Hemoglobinopathy		
	Workup of Hemolytic Anemia		
Laboratory	Sickledex Test	10	
Hematology	Hemoglobin Electrophoresis	10	
for Specialist	High Performance Liquid Chromatography	10	
ior specialise	HEMOSTASIS LABORATORY		2
	Manual and Automated Hemostasis Testing	5	
	Platelet Function Tests	10	
	Workup of Hemophilia	10	
	Workup of Thrombophilia	10	
	RESIDENTS OWN CHECK LIST OF ABNORMAL	5	
	MORPHOLOGY	~	
	Flowcytometry introduction , basis , clinical application and interpretation in benign and malignant hematological disorders.	20	3

LOGBOOK Module A-Clinical Rotation, Outpatient clinic, Case log and Night Shift

Clinical Rotation

Duration from -to	Location	Signature of supervisor	Duration from -to	Location	Signature of supervisor

Outpatient clinic

Date/ Duration from -to	Signature of supervisor	Date/ Duration from -to	Signature of supervisor

Clinica rounds log

Date	Attendance	Case presentation	Signature of supervisor

Clinical rounds log

Date	Attendance	Case presentation	Signature of supervisor

Clinical rounds log

Date	Attendance	Case presentation	Signature of supervisor

Night Shift

Date	Signature of supervisor		Date	Signature of supervisor
		-		
		-		

Night Shift

Date	Signature of supervisor	Date	Signature of supervisor

Night Shift

Date	Signature of supervisor		Date	Signature of supervisor
		_		
		_		
		_		
		_		

B- Clinical Seminars log

First: Attendance

Date	Attendance	Торіс	Signature

B- Clinical Seminars log

First: Attendance

Date	Attendance	Торіс	Signature

B- Clinical Seminars log book

First: Attendance

Date	Attendance	Торіс	Signature

B- Clinical Seminars

Second: Case or topic presentation

Date	Торіс	Case	Signature

Post graduate teaching First: lectures				
Date	Title of lecture	Signature of Staff member		

Post graduate teaching First: lectures					
Date	Title of lecture	Signature of Staff member			

I	Second: Tute	Post graduate teaching Second: Tutorial					
Date	Title of Tutorial	Signature of Staff member					

	Post graduate teaching Second: Tutorial					
Date	Title of Tutorial	Signature of Staff membe				

Post graduate teaching Third: Clinical Teaching					
Date	Title of Clinical Teaching	Signature of Staff member			

Post graduate teaching Third: Clinical Teaching

Date	Title of Clinical Teaching	Signature of Staff member

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Medical emergencies CV strokes

ER : Emergency Room

W : Ward

OPD : Out-Patient Department

Module Cases with Metabolic Comas

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Module Shock 2ry to medical problem

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Metabolic Acidosis & electrolyte imbalance

Acute abdomen

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Life-threatening infections

Acute Myocardial Infarction

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Severe immune deficiency

Meningitis and encephalitis

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Convulsions

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Obstructive jaundice

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Lower GIT bleeding

Infectious and Inflammatory Bowel Diseases

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Liver cirrhosis

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HC failure

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Ascites

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Upper GIT bleeding

Acute abdomen

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Gastritis, ileitis, colonic disorders, malabsorption & inflammatory bowel diseases

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Vasculitis

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	Autoimmune an	d CT d	lisease	s (SL	E, RA	, ,)	
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Obstructive lung diseases

Restrictive lung disorders &Idiopathic pulmonary fibrosis

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Pulmonary vascular disorders

Pulmonary infections

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Diabetes mellitus and its complications

Thyroid disorders

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Adrenal gland disorders

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hypo and hypervitaminosis

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Gout

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Infective endocarditis

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Rheumatic heart diseases

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Heart Failure (left and right side HF)

Ischemic heart Diseases

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Hypertension and renovascular diseases

Cardiomyopathy

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Suppurative Lung Diseases

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COPD

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Respiratory failure & artificial ventillation

Pleural and mediastinal diseases

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Malignant lung diseases

Severe opportunistic infections

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Control of hyperglycemia in DM

Diabetic Comas

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Management of chronic complication of DM

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Hyper and Hypothyroidism

Adrenal disorders

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Disorders of calcium and bone

Hypothalamic and Pituitary diseases

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Haematology Module Deficiency Anaemias

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Haemolytic Anaemias

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Refractory Anaemias & Anaemias of chronic diseases

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Leukocyte disorders & immune deficiency

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Purpura and bleeding disorders

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Congenital and acquired clotting disorders

Acute leukaemias

					Co	mmen	ts	signat
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Chronic leukaemias & Myeloproliferative disorders

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	date and name				Obse rve	Sha re	Do	
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Lymphadenopathy & lymphoma

Haematology Modules in the 2nd & 3rd years

Deficiency Anaemias

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Deficiency Anaemias

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Haemolytic Anaemias

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	uate and name	vv nere	Where did the patient seen		Obser	Sha	Do	
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Refractory Anaemias & Anaemias of chronic diseases

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Leukocyte disorders & immune deficiency

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Purpura and bleeding disorders

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Congenital and acquired clotting disorders

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Acute leukaemias

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					Co	ommen	ts	Signa ture
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Chronic leukaemias & Myeloproliferative disorders

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					Co	mmen	ts	Signa turo
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Lymphadenopathy & lymphoma

					Co	ommen	ts	Signat
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CONSULTATIONS

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	Anemia, Tha		Service A	And Gen		nsenng	; 	
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	Bleeding Abn	ormal Co	agulatio	1 before	or after	Surger	y	-
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I		ſ	hrombo	sis	1		1	
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		Acı	ute hemo	lysis	•	-	•	<u> </u>
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Optional Haematology Modules

Transfusion Therapy and Blood Bank

					Co	ommen	ts	Signa	
	date and name	Where	did the j seen	patient	Obse	Obse Sha Do			
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					Co	ommen	ts	signat
	date and name	where	did the p seen	atient	Obser	Sha	Do	
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Extra cases from different diseases

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Extra cases from different diseases

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Bone Marrow Transplantation Allogenic or Autologous BMT

Interpretation of investigation log Book

PROCEDURE	NO. CASES
Chest x ray (Interpret)	50
ECG (Interpret)	50
Abdominal U/S (Interpret)	20
CT scan (chest & Abdomen) (Interpret)	40
Peripheral Blood smear (Interpret)	150
Bone Marrow biopsy (Interpret)	100
Flowcytometry (Interpret)	20
Plasma protein & Hb electrophoresis	40
Bacteriological, biochemical, immunological and cytological analysis of body fluids	100
HLA matching (Interpret)	10

The trainee should do or share in at least 50% of the number of required cases.

Procedure log Book

PROCEDURE	NO. CASES
Use of Blood cell separator (different protocols)	20
Abdominal paracentesis (insertion)	10
Thoracic paracentesis (insertion)	10
Peripheral Blood smear (DO)	50
Bone Marrow aspirate and/or biopsy	20
Lumbar puncture	10
Insertion of femoral and/or Hickman Catheter and arterial blood sampling	20
Dealing with Immune Deficient patients	20

The trainee should do or share in at least 50% of the number of required cases.

		Con	nments	
	Exell ent	Goo d	Fair	Bad
training course in communication skills				
Presentation of data at departmental meetings				
Presentation of data at scientific meetings				
Attendance at communication skills course				
Producing a report for both professional and non- professional audiences				
Dealing with visitors and extra laboratory enquiries				
Chairing a meeting				
Details of presentations may be appended here if wished.				
Writing medical reports for governmental and higher center referral patients				

COMMUNICATION SKILLS Follow up patients

		Comments					
	Date and name of Evaluation	Exell	Goo	Fair	Bad		
		ent	d	I ull	Duu		
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Degrees in 3 months Examination

			Con	nments	
	Date and name of Examination	Exell ent	Goo d	Fair	Bad
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Follow up MS thesis every 3 months

		Comments					
	Date and name of Evaluation	Exell ent	Goo d	Fair	Bad		
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Seminars lectures or group discussion presented by the Trainee

<u>Appendix 1</u>TIME TABLE FOR 3 YEARS HAEMATOLOGY MASTER DEGREE CURRICUCUUM

<u>BMS</u> : basic medical sciences, <u>BLS</u>: basic laboratory sciences <u>CHM</u>: clinical hematology modules& <u>LHM</u>: laboratory hematology module

Year		BMS	BLS	CHM	THESIS	LHM	Transfusion & BMT
1st	1	*					
	2	*					
	3	*					
	4	*					
	5	*					
	6	*	*				
	7	*	*	*			
	8	*	*	*			
	9	*	*	*			
	10	*	*	*			
	11	*	*	*			
	12	Exam	Exam	*			
	1			*	*		
	2			*	*		
	3			*	*		
	4			*	*		
	5			*	*		
2nd	6			*	*		
21	7			*	*	*	
	8			*	*	*	
	9			*	*	*	
	10			*	*	*	
	11			*	*	*	
	12			*	*	*	
3rd	1			*			*
	2			*			*
	3			*			*
	4			*			*
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	8			*			
	9			*			
	10			*			
	11			*			
	12			*			

Elective course 1

Requirements

• Credit points: 2 credit point.

- Minimal rate of attendance 80% of lectures and 80% of training

Name of the elective course: -----

Elective Course 1 Lectures

Date	Attendance	Торіс	Signature

Elective Course 1 Practical skills

Date	Attendance	Торіс	Signature

Declaration

Course Structure Mirror	Responsible (Module) Coordinator Name:	Signature	Date					
Fi	First part							
Course 1								
Course 2								
Course 3								
С	ourse 4							
С	ourse 5							
С	ourse 6							
Second part								
Clinical haematology								
- Elective Course (s) Certificate (s) Dates:								
- Master Degree Thesis Acceptance Date:								
- Fulfillment of required credit points prior to final examination								
- Master Degree Principle Coordinator:								
Date approved by Department Council:								

يعتمد ، رئيس القسم