

10. Learning Outcomes, Teaching ,Learning and Assessment Methode

A- Knowledge and Understanding

- A1. diagnosis of pathological blood causes
- A2. assess the health status of the patient
- A3. diagnosis and evaluation and analysis of blood samples using modern equipmen
- A4.
- A5.
- A6 .

B. Subject-specific skills

- B1. Labs
- B 2 - scientific visits
- B 3 - summer training

Teaching and Learning Methods

Laboratories and scientific visits and summer training

Assessment methods

Oral + written + quarterly exams + final

C. Thinking Skills

- C1. J1- theoretical lectures
- C2. practical skills within the laboratory
- C3.
- C4.

D. General and Transferable Skills (other skills relevant to employability and personal development)

- D1- graduate work in government institutions and the private sector
- D2- gets the skills in the use of laboratory services, medical cos
- D3.
- D4.

11. Course Structure

Week	Hours	ILOs	Unit/Module or Topic Title	Teaching Method	Assessment Method
1	6	Technical diploma	Introduction importance of haematology. study the blood contains.	Laboratories and scientific visits and summer training	Oral + written + quarterly exams + final
2	6	=	The haemato Poiesis in featus , children and adult.	=	=
3	6	=	- The normal red blood cells, importance , Structure , erythropoiesis and Function.	=	=
4	6	=	Polycythemia ,causes ,Clinical Signs and Laboratory diagnosis.	=	=
5	6	=	Study the red cell morphology in health and disease. Abnormality of R.B.C in size.	=	=
6	6	=	Abnormality of R.B.C in shape.	=	=
7	6	=	Abnormality of R.B.C in colour.	=	=
8	6	=	The normal Hb. Of the blood, contain and importance .	=	=
9	6	=	Study the types of normal Hb. Types .	=	=
10	6	=	Common Hb. Variant .	=	=
11	6	=	Anemia. definition, classification and types .	=	=
12	6	=	Anemia. Causes .clinical signs and laboratory Finding.	=	=
13	6	=	Megaloblastic anemia and Pernicious anemia.	=	=
14	6	=	Aphastic anemia and hemolytic anemia.	=	=
15	6	=	Sickle Cell an. And acquired and autoimmune hemolytic anemia.	=	=
16	6	=	Haemostasis , definition and types .The role of blood Vessels and Platelet in Haemostasis.	=	=
17	6	=	Coagulation factors, name and figures.	=	=
18	6	=	Coagulative Processes.	=	=
19	6	=	Haemostasis disorder types.	=	=

		=	Haemostasis due to blood vessels disorder.		
20	6	=	Haemostasis due to blood platelet disorder.	=	=
21	6	=	Haemostasis due to Coagulative disorder.	=	=
22	6	=	The White blood Cells, types .	=	=
23	6	=	The maturation of W.B.C .	=	=
24	6	=	The function of W.B.C .	=	=
25	6	=	Leukocytosis	=	=
26	6	=	Leukopenia	=	=
27	6	=	Leukemia ,definition and classification.	=	=
28	6	=	Chronic and acute myeloid . L.	=	=
29	6	=	Chronic and acute myeloid . L.	=	=
30	6	=	Chronic and acute Monocytic .L.	=	=

12. Infrastructure

Required reading: · CORE TEXTS · COURSE MATERIALS · OTHER	1- Book Introduction to Medical Laboratory By F. J. Baker and R. E. Silvertown Butter Worths. 2- Binding Practical Practical Medical Technology By M. D. A. 1986
Special requirements (include for example workshops, periodicals, IT software, websites)	website
Community-based facilities (include for example, guest Lectures , internship , field studies)	

13. Admissions

Use and the introduction of modern equipment to work to develop the curriculum