Course Specifications

General Information

Course name	Boold & Lymphoreticular System
Course number	MDCN3423
Faculty	
Department	
Course type	Major Needs
Course level	3
Credit hours (theoretical)	4
Credit hours (practical)	0
Course Prerequisites	

Course Objectives

1 - Describe the constituents of blood, their origin and function

2 - Discuss the structure and function of the lymph-reticular system.

3 - Describe the important aspects of hemoglobin genetics and abnormal hemoglobin

4 - Understand the basic classification systems of anemia, their laboratory and clinical features, public health aspects, and their management

5 - Understand the classification of neoplastic diseases of hematopoietic cells, methods for their diagnosis and their natural history and general guidelines for their management.

6 - Describe the regulatory mechanisms of normal Hemostasis, abnormalities that lead to bleeding disorders, pathologic aspects that cause thrombotic disorders and how are these conditions being treated.

Intended Learning Outcomes

Knowledge and Understanding	* Identify and describe the macroscopic appearance of different parts of the blood and lymphoreticular system * Describe the microscopic appearance of different parts of the blood and lymphoreticular system * Understand the molecular and cellular basis of common diseases of blood and lymphoreticular system * Recognize the different types and causes of bleeding disorders
Intellectual Skills	* Integrate the basic anatomical & physiological facts of blood and lymphoreticular system with clinical data
Professional Skills	* Identify common diseases of peripheral blood, bone marrow and lymph nodes.
General Skill	* Respect superiors, colleagues and any other members of the health profession. * Communicate ideas and arguments effectively * Work constructively and cooperatively within a team

Course Contents

1 - Hematopoiesis Histology of blood cells
2 - Blood: composition, function, volume and viscosity General overview of homeostatic process
3 - RBCs structure, Hemoglobin and Iron metabolism
4 - Molecular biology of globin chain synthesis
5 - Introduction to anemia, classification
6 - Biochemistry of Coagulation
7 - Drugs used for anemia
8 - Bleeding Disorders
9 - Anticoagulants & Antiplatelet Agents
10 - Lymphatic system
11 - Histology of lymphoid tissue
12 - WBC Disorders
13 - WBC Disorders
14 - Immunological diseases of blood and lymphatic system
15 - Immunomodulators

Teaching and Learning Methods

1 - Theoretical interactive lectures
2 - practical lab sessions

Teaching and Learning Methods for the Disabled Students

1 - Lectures
2 - Help each student according to his needs and his condition

Students Assessment

Assessment Method	TIME	MARKS
paper 1 exam	60	30
paper 2 exam	60	50
practical exam	60	20

Books and References

Essential books	-	Clinical anatomy by systems, R.S. Snell. (latest edition)
	-	Human Physiology (An Integrated Approach), D U Silverthorn. (latest edition)
	-	Pharmacology, Lippincott's Illustrated Review. (latest edition)
	-	Basic Pathology, Kumar, W.B. Saunders. (latest edition)
	-	Review of Medical Microbiology and Immunology, Levinson, W. (latest edition)
Recommended books	-	Lehninger Principles of Biochemistry, Lehninger, Nelson and Cox (latest edition)