VIDHYADEEP UNIVERSITY B.Sc. HAEMATOLOGY Teaching & Evaluation Scheme

Course name: B.Sc (Haematology)			Semester I						
Grade System:									
Subject			Teaching Scheme		Examination Scheme		Passing Scheme		
Code	Paper No.	Paper Title	Hours/week	Credit	Theory		Passing Head		Total Marks
			Theory	Theory	Internal	External	Internal	External	
004396102	Haem- 101	Haematology	3	3	50	50	14	21	100
004396102	Haem- P101	Haematology Practical	2	1	20	30	8	12	50

Objective of	This paper includes the study and management of the red and white blood cells, platelets and						
Program	the coagulation system. It includes the process that takes place in the lab to make sure that						
	donated blood, or blood products, are safe before they are used in blood transfusions and						
	other medical procedures.						
Program	Students will be able to appear and qualify for competitive exams like NET, GSET, and						
specific	GATE. They will be skilled enough to join any research institute, Biopharma industry or						
Outcome	even start ventures of their own.						
	PSO1 : Students will develop skill to observe, isolate, identify the cause of problms.						
	PSO2: Students will acquire and demonstrate proficiency in good laboratory						
	practices in haematology laboratory.						
	PSO3 : Students will develop practical skills of tools and techniques used to study						
	haematology.						
	PSO4: Students will develop oral and written communication skills, effective report						
	prepration skills and interpretation skill from observed results.						
	PSO5: Students will be graduates in haematology who shall understand the societal						
	problems and play a vital role by providing disease related solutions.						
	PSO6: Students will be able to build their careers in public and global health, environmental						
	organizations and pharmaceuticals.						
Course	CO 1 To study the blood and blood components.						
Objectives:	CO 2 To investigate and diagnose the disorders of blood, hemostasis and immune function.						
-	CO 3 To learn the typing of blood for transfusion and testing for infectious diseases.						
	CO 4 To investigate the harmful responses of the body to blood transfusion and learn the						
	collection, separation, delivery and storage of blood components						

		PSO1	PSO2	PSO3	PSO4	PSO5	PSO6
Mapping between CO and PSO	CO1	\checkmark	\checkmark	\checkmark		\checkmark	\checkmark
	CO2	\checkmark	\checkmark	\checkmark	\checkmark	\checkmark	\checkmark
	CO3		\checkmark		\checkmark	✓	✓
	CO4	\checkmark		\checkmark	\checkmark	\checkmark	\checkmark

Course content:

Unit No.	Unit Name	Content	Hours/Week				
Unit-1	Introduction to the	1.1. Introduction to medical terminology	11				
	profession	1.2. Disciplines in laboratory medicine and application to					
		function of the body system					
		1.3. Anticoagulants					
Unit-2	Introduction to hematology	2.1. Specimen collection and Laboratory preparation in	12				
		Hematology					
		2.2. Routine Hematological tests					
		2.3. Special Hematological tests					
Unit-3	Parasitic infections of blood	3.1. Introduction to Homeostasis and coagulation	11				
		3.2. Laboratory investigation of bleeding					
		disorders					
		3.3. Principles of immunohematology and					
		clinical significance of blood transfusion					
Unit – 4	Collection and Processing	4.1. Routine laboratory Process in blood banking	11				
	of blood for transfusion	4.2. Transfusion reactions and hemolytic disease of					
		newborn					
		4.3. Hematological diseases					
References	Medical laboratory technology procedure manual for Routine Diagnostic tests by						
	Mukherjee, McGraw hill Education						
	Text book of medical laboratory technology by Godkar, Bhalani Publishing House						
	 Clinical Microbiology made Ridiculously Simple, GLADWIN 						
	 Microbiology an introduction By Tortora, Benjamin Cummings 						
	Medical Microbiology by Kayser						
	 Instant Notes in Biochemistry, Hoper 						
	 Instant Notes inMicrobiology Oxford handbook of clinical and laboratory investigation by Provan 						
	District laboratory practice in tropical country by Cheesbrough, Cambridge University Press						