

Lesson Plan

Name of the Faculty : Mr. Deepak Rawat (T & P)

Discipline : Medical lab Technology

Semester : 2nd

Subject : Hematology-II

Lesson Plan : 15 weeks (from January-April 2018)

Work load (lecture/practical) per week (in hours) : Lectures-03, practicals-04

Week	Theory		Practical	
	Lecture day	Topic (including assignment test)	Practical Day (2 hours lab each day), (2 hours each day*2days in week=4 weekly load)	Topic
1 st	1 st	Introduction to the whole syllabus of hematology-II	1 st & 2 nd	1. Preparation of peripheral blood film.
	2 nd	Ch – 1 Haemoglobinometry introduction		
	3 rd	Formation of haemoglobin		
2 nd	4 th	Formation of haemoglobin	3 rd & 4 th	2. Preparation and standardization of stains (leishman and giemsa)
	5 th	functions and its degradation		
	6 th	Types of haemoglobin		
3 rd	7 th	Types of haemoglobin	5 th & 6 th	3. Preparation of thick and thin blood smear
	8 th	Various methods of estimation with specific reference to cyanmethaemoglobin method		

	9 th	Ch -2 Haemocytometry introduction		
4 th	10 th	Various counting chambers	7 th & 8 th	4. Haemoglobin Estimation by Sahli's method
	11 th	Various counting chambers		
	12 th	Methods of counting of RBC their calculation and reference values		
5 th	13 th	Methods of counting of WBC their calculation and reference values	9 th & 10 th	Viva of the experiments performed in lab
	14 th	Methods of counting of platelets their calculation and reference values		
	15 th	Assignment - 1 Common Errors involved in haemocytometry and means to minimize them		
6 th	16 th	Classtest -1 of the syllabus covered in the class	11 th & 12 th	5. Counting of RBC
	17 th	Ch -3 Differential leucocyte counting (DLC)		
	18 th	Preparation and staining of blood film		
7 th	19 th	Performance of DLC	13 th & 14 th	6. Counting of WBC
	20 th	Assignment -2 Normal values and significance of DLC		
	21 st	Blood cell morphology in health and disease (Peripheral blood film)		

8 th	22 nd	Ch - 4 Quality Assurance in haematology- introduction and need	15 th & 16 th	Revision of experiment 5,6
	23 rd	Description of precision & accuracy		
	24 th	Description of standard deviation as per national standards		
9 th	25 th	Revision of ch- 3	17 th & 18 th	7. Demonstration of Platelet counting
	26 th	Revision of ch -4		
	27 th	Classtest- 2 of ch – 3,4		
10 th	28 th	Ch - 5 Automation in haematology – introduction	19 th & 20 th	8. Study of morphology of normal RBC with the help of stained slide
	29 th	Various types of Blood cell counter		
	30 th	Various types of Blood cell counter		
11 th	31 st	Various types of Blood cell counter	21 st & 22 nd	9. Study of morphology of normal WBC with the help of stained slide
	32 nd	Principle and operation of the automated blood cell counters		
	33 rd	Principle and operation of the automated blood cell counters		
12 th	34 th	Revision of ch -5	23 rd & 24 th	Viva of experiments 7,8
	35 th	Class test – ch -5		

	36 th	Revision of ch – 1		
13th	37 th	Revision of ch – 2	25 th & 26 th	10. To study abnormal morphology of RBC,WBC,platelets
	38 th	Revision test		
	39 th	Revision of ch – 3		
14th	40 th	Assignment -3 (Various types of Blood cell counter)	27 th & 28 th	Viva of experiments 9,10
	41 st	Revision of ch – 4		
	42 nd	Revision test		
15th	43th	Revision of ch – 5	29 th & 30 th	Revision of full practical syllabus
	44 th	Revision of full theory syllabus/Problem solving of students		
	45 th	Revision of full theory syllabus/Problem solving of students		