

Lesson Plan

Name of the Faculty :Bipul Kumar Mahto
 Discipline :Medical Lab Technology
 Semester :4th
 Subject : Clinical Hematology

Week			Theory	Practical	
	Lecture day	Tentative date oflect.	Topic(including assignment test)	Practical Day (3hours lab in week=3weekl y load)	Topic
1 st	1 st		Theories of blood Coagulation	1 st &2 nd	1.Determinationofble edingtimebylvy'sand Dukesmethod
	2 nd		Platelets and their role in haemostasia is including cou nt		
	3 rd		Bleeding disorder and related diseases		
2 nd	4 th		Principles, clinical importance, reference values and methods of: Prothrombin time,	3 rd &4 th	2. Determination of clotting time by Lee and White metho d
	5 th		Prothrombin time index (PTI) International normalized ratio (INR),		
	6 th		Activated Partial Thromboplastin time(APTT),		
3 rd	7 th		ThrombinTime(TT),	5 th &6 th	3. Determination of prothrombin time, index and INR(International Norm alisedRatio)
	8 th		bleedingtime(BT		
	9 th		Hesstest,		
4 th	10 th		Clottingtime(CT)	7 th &8 th	4.DeterminationofA ctivated Partialthromboplasti ntime(APTT)
	11 th		Clotretractiontest(CRT)		
	12 th		Compositionandfunctionofb one-marrow		
5 th	13 th		Aspirationofbone- marrowbyvariousmethods	9 th &10 th	5.Demonstration ofHess test
	14 th		Preparation,stainingandexa minationofbone- marrowsmears for myclogramincludingM.E.Ra tio		

	15 th		Ironstaining(Perls'reaction) Significanceofbone- marrowexamination		
6 th	16 th		Leukemia Definitionofleukemias	11 th &12 th	6.PerformanceofClottr tractiontest
	17 th		(FAB)Classification		
	18 th		Laboratorydiagnosisofv ariousleukemias		
1stSessionalExam					
7 th	19 th		LECellphenomenon	13 th &14 th	7.DemonstrationofLEC ell
	20 th		PhenomenonofLEcell, itsdifferentiationfromtcel l		
	21 st		DemonstrationofLEcellbyva rious methods		
8 th	22 nd		Clinicalsignificance	15 th &16 th	8. Cell counts ofbiologicalflui ds
	23 rd		SemenAnalysisindetail		
	24 th		SemenAnalysisindetail		
9 th	25 th		Cellcountsofvarious biologicalfluids	17 th &18 th	9.Semenanalysis
	26 th		PleuralFluid		
	27 th		SynovialFluid		
10 th	28 th		PericardialFluid	19 th &20 th	Revision
	29 th		CSF		
	30 th		Revision		
11 th	31 st		Revision	21 st &22 nd	Revision
	32 nd		Revision		
	33 rd		Revision		
2ndSessional					
12 th	34 th		Revision	23 rd &24 th	Revision
	35 th		Revision		
	36 th		Revision		
13 th	37 th		Revision	25 th &26 th	Revision
	38 th		Revision		
	39 th		Revision		
14 th	40 th		Revision	27 th &28 th	Revision
	41 st		Revision		
	42 nd		Revision		
15 th	43 rd		Revision	29 th &30 th	Revision
	44 th		Revision		
	45 th		Revision		
3rdSessional					