

# LessonPlan

Name of the Faculty : Seema Sindhu  
 Discipline : Medical Lab Technology  
 Semester : 4<sup>th</sup>  
 Subject : Haematology-IV  
 Lesson Plan : 15 weeks (From 13<sup>th</sup> March 2023 to 30 June 2023)  
 Workload (lecture/practical) per week (in hours): Lectures-03, practicals-03

Week			Theory	Practical	
	Lecture day	Tentative date of lect.	Topic (including assignment test)	Practical Day (3 hours lab in week = 3 weekly load)	Topic
1 <sup>st</sup>	1 <sup>st</sup>		Theories of blood Coagulation	1 <sup>st</sup> & 2 <sup>nd</sup>	1. Determination of bleeding time by Ivy's and Dukes method
	2 <sup>nd</sup>		Platelets and their role in haemostasis including count		
	3 <sup>rd</sup>		Bleeding disorders and related diseases		
2 <sup>nd</sup>	4 <sup>th</sup>		Principles, clinical importance, reference values and methods of: Prothrombin time,	3 <sup>rd</sup> & 4 <sup>th</sup>	2. Determination of clotting time by Lee and White method
	5 <sup>th</sup>		Prothrombin time index (PTI) International normalized ratio (INR),		
	6 <sup>th</sup>		Activated Partial Thromboplastin time (APTT),		
3 <sup>rd</sup>	7 <sup>th</sup>		Thrombin Time (TT),	5 <sup>th</sup> & 6 <sup>th</sup>	3. Determination of prothrombin time, index and INR (International Normalised Ratio)
	8 <sup>th</sup>		bleeding time (BT)		
	9 <sup>th</sup>		Hesstest,		
4 <sup>th</sup>	10 <sup>th</sup>		Clotting time (CT)	7 <sup>th</sup> & 8 <sup>th</sup>	4. Determination of Activated Partial thromboplastin time (APTT)
	11 <sup>th</sup>		Clot retraction test (CRT)		
	12 <sup>th</sup>		Composition and function of bone-marrow		
5 <sup>th</sup>	13 <sup>th</sup>		Aspiration of bone-marrow by various methods	9 <sup>th</sup> & 10 <sup>th</sup>	5. Demonstration of Hess test
	14 <sup>th</sup>		Preparation, staining and examination of bone-marrow smears for myelogram including M.E. Ratio		

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