

## Lesson Plan

Name of the Faculty : Ms Pratima Saini

Discipline : Medical Lab Technology

Semester : 1<sup>st</sup>

Subject : Fundamental of MLT

Lesson Plan : 15 weeks (From 1 September 2023 to 29 December 2023)

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

WORK	THEORY		PRACTICAL	
	Lecture Day	Topic (Including assignment/test)	Practical Day	Topic
1	1 <sup>st</sup>	Basic ethics of Medical laboratory Technology	1 <sup>st</sup>	The Principal and procedure of autoclave and identify their parts– water bath, hot airoven, incubator
	2 <sup>nd</sup>	Training of clinical laboratory technicians		
	3 <sup>rd</sup>	Medical laboratory professional - professionalism in laboratory workers	2 <sup>nd</sup>	
2	4 <sup>th</sup>	Code of conduct and communication between physician and lab technician	3 <sup>rd</sup>	The Principal and procedure of autoclave and identify their parts– water bath, hot airoven, incubator
	5 <sup>th</sup>	First aid in the clinical laboratory	4 <sup>th</sup>	
	6 <sup>th</sup>	Storage and handling of dangerous chemicals		
3	7 <sup>th</sup>	Common Laboratory hazards	5 <sup>th</sup>	To demonstrate basic internal organization identifies their parts. Centrifuge colorimeter
	8 <sup>th</sup>	Color coding of various Waste disposal containers in the labs		
	9 <sup>th</sup>	Assignment	6 <sup>th</sup>	
4	10 <sup>th</sup>	Test	7 <sup>th</sup>	To demonstrate basic internal

	11 <sup>th</sup>	Introduction to Basic Equipments in MLT		organization identifies their parts. Centrifuge colorimeter
	12 <sup>th</sup>	Different types of syringes used for blood collection	8 <sup>th</sup>	
5	13 <sup>th</sup>	Basic requirements of blood collection	9 <sup>th</sup>	To demonstrate basic internal organization of compound microscope identify their parts
	14 <sup>th</sup>	Revision / Assignment		
	15 <sup>th</sup>	Test	10 <sup>th</sup>	
6	16 <sup>th</sup>	Principle, Care, Procedure and Application of the Basic Instruments Part-I  (Centrifuge (routine - low and high speed -table top)	11 <sup>th</sup>	To demonstrate basic internal organization of compound microscope identify their parts
	17 <sup>th</sup>	Water Bath		
	18 <sup>th</sup>	Hot Air Oven	12 <sup>th</sup>	
7	19 <sup>th</sup>	Incubator	13 <sup>th</sup>	To demonstrate basic internal organization of identify their parts pH meter chemical balance
	20 <sup>th</sup>	Colorimeter	14 <sup>th</sup>	
	21 <sup>th</sup>	Compound Microscope (Monocular and Binocular)		
8	22 <sup>th</sup>	Revision / Assignment	15 <sup>th</sup>	To demonstrate basic internal organization of identify their parts pH meter chemical balance
	23 <sup>th</sup>	Test		
	24 <sup>th</sup>	Principle, Care & Safe Operating Procedure and Application of the Basic Instruments Part-II (pH Meter)	16 <sup>th</sup>	
9	25 <sup>th</sup>	Distillation unit	17 <sup>th</sup>	To demonstrate basic internal organization & identify their parts. Microtome Tissue Processing Unit
	26 <sup>th</sup>	Balance (Physical and chemical)		
	27 <sup>th</sup>	Microtome	18 <sup>th</sup>	

				Hematology Cell
10	28 <sup>th</sup>	Microbe filters (Seitz, Glass Scintered & Membrane)	19 <sup>th</sup>	Revision
	29 <sup>th</sup>	Revision		
	30 <sup>th</sup>	Principle, Care, Procedure and Application of the Advanced Instruments (Refrigerated Centrifuge)	20 <sup>th</sup>	
11	31 <sup>th</sup>	Ultra Centrifuge	21 <sup>th</sup>	Revision
	32 <sup>th</sup>	Specialised Incubator		
	33 <sup>th</sup>	B.O.D. Incubator	22 <sup>th</sup>	
12	34 <sup>th</sup>	Special Microscopes	23 <sup>th</sup>	Revision
	35 <sup>th</sup>	Dark Field Microscope		
	36 <sup>th</sup>	Phase Contrast Microscope		
13	37 <sup>th</sup>	Florescence Microscope	24 <sup>th</sup>	Revision
	38 <sup>th</sup>	Electron Microscope		
	39 <sup>th</sup>	Tissue Processing Unit		
14	40 <sup>th</sup>	Biochemistry Analyzer	26 <sup>th</sup>	Revision
	41 <sup>th</sup>	Laminar Air Flow Hood& their Different Types		
	42 <sup>th</sup>	Haematology Cell Counter	27 <sup>th</sup>	
15	43 <sup>th</sup>	Revision	28 <sup>th</sup>	Viva voce
	44 <sup>th</sup>	Assignment		
	45 <sup>th</sup>	Revision	29 <sup>th</sup>	