

Lesson Plan

Name of the Faculty : Expert

Discipline : MLT

Year : 1st Year

Subject : Fundamental of MLT

Lesson Plan Duration : 15 weeks

Work Load (Lecture/Practical) per week (in hours): Lecture= 03, Practical=2

Week	Theory		Practical	
	Lecture Day	Topic (including assignment / test)	Practical Day	Topic
1. 1	1	Basic Training of laboratory technicians 1.1 Basic ethics of Medical laboratory Technology 1.2 Training of clinical laboratory technicians. 1.3 Medical laboratory professional - professionalism in laboratory workers, 1.4 Code of conduct and communication between physician and lab technician	1	1. The Principal and procedure of autoclave and identify their parts– water bath, hot air oven, incubator
	2			
	3			
2	4	Common Lab accidents and ways for its prevention 1.5 First aid in the clinical laboratory 1.6 Storage and handling of dangerous chemicals 1.7 Common Laboratory hazards 1.8 Color coding of various Waste disposal containers in the labs	2	To demonstrate basic internal organization identifies their parts. Centrifuge colorimeter
	5			
	6			
3	7	2.1 Introduction to Basic Equipments in MLT 2.2 Different types of syringes used for	3	. To demonstrate basic internal organization of compound microscope identify their part
	8			

	9	blood collection. 2.3 Basic requirements of blood collection.	
4	10 11 12	Principle, Care, Procedure and Application of the Basic Instruments Part-I 3.1 Centrifuge (routine - low and high speed -table top) 3.2 Water Bath 3.3 Hot Air Oven 3.4 Incubator 3.5 Colorimeter 3.6 Compound Microscope (Monocular and Binocular)	4. To demonstrate basic internal organization of identify their parts.pH meter chemical balance
5	13 14 15	Principle, Care & Safe Operating Procedure and Application of the Basic Instruments Part-II 4.1 pH Meter 4.2 Distillation unit 4.3 Balance (Physical and chemical) 4.4 Micro tom 4.5 Microbe filters (Seitz, Glass Scintered & Membrane)	5. To demonstrate basic internal organization & identify their parts. Microtome Tissue Processing Unit Hematology Cell Counter REVISION
	16 17 18	5.1 Refrigerated Centrifuge Ultra Centrifuge 5.2 Specialised Incubator B.O.D. Incubator	REVISION
	19 20	Special Microscopes 1. Dark Field Microscope Phase Contrast Microscope	REVISION

	21	3. Florescence Microscope		
	22	4. Electron Microscope 5		
	23	4.4 Tissue Processing Unit 5.	8	REVISION
	24	5 Biochemistry Analyzer 5.		
	25	6 Laminar Air Flow Hood & their Different Types 5.		
	26	Haematology Cell Counter	9	REVISION
	27	REVISION		
	28	REVISION	10	
		REVISION		
	29	REVISION		
10	30	REVISION REVISION		REVISION
11	31	REVISION		REVISION

	32	REVISION	11	
		REVISION		
	33	REVISION		
12	34	REVISION		
		REVISION	12	REVISION
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13	38	REVISION	13	REVISION
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14	41	REVISION	14	
	42	REVISION		REVISION
		REVISION		
	43	REVISION		
15	44	REVISION	15	REVISION
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	45	REVISION		

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