LessonPlan

NameoftheFaculty	:Ashish Duhan
Discipline	:MedicalLabTechnology
Semester	$:4^{th}$
Subject	:Microbiology-IV
LessonPlan	:15weeks(From13 th March2023to30June2023)

Workload(lecture/practical)perweek(inhours):Lectures-03,practicals-03

Week			Theory	Practica 1	
	Lecture day	Tentativ edate oflect.	Topic(includingassignment test)	Practical Day(3hourslab inweek=3weekl y load)	Торіс
1 st	1 st 2 nd 3 rd		Mycology-Characteristics classification of medicallyimportantfungi SDA (Sabouraud's dextroseagar)withand withoutantibiotics	1 st &2 nd	1. Preparation ofdifferent culture mediaused in mycology - Sabouraud's dextroseagar with and withoutantibiotics, Corn mealagar,BHI(Brain,H eart Infusion)
2 nd	4 th 5 th 6 th		 CMA(Cornmealagar) BHI(BrainHeartInfusion) Collectionandprocessingof sample forfungalinfectioninSkin,Nai land Hair 	3 rd &4 th	2. To perform wetmount techniques– KOHandLCB
3rd	7 th 8 th 9 th		-KOHpreparation -LCB(Lactophenolcotton blue) -Indiaink	-5 th &6 th	3. To studycharacteristics ofcommon laboratoryfungalco ntaminants
4 th	10 th 11 th 12 th		Medicalyimportantfungi– Candida Dermatophytes -LaboratoryContaminants– Penicillium,	- 7 th &8 th	4. Collection andprocessing of samplesfor diagnosis of fungalinfectionsinskin ,hair,nailscrapings
5 th	13 th 14 th 15 th		Rhizopus, Mucor, Aspergillus	9 th &10 th	5. Widal test (Bothslideandtubemet hod)
6 th	16 th 17 th		IntroductiontoImmunology Innate	- 11 th &12 th	6.ASOtitre

	18 th	Acquired		
7 th	19 th	Antigens-Definition,types andproperties	13 th &14 th	-7. CRP
	20 th	Antibodies- Definition,typesandpropertie s		
	21 st	Antigen– AntibodyReactions (06hrs)		
		– Principleandapplicationsof agglutination		
8 th	22 nd	Precipitationand flocculationreactions		8.Rheumatoidfactor
	23 rd	-Widal- Tubemethod/Titreslidemeth od	15 th &16 th	
	24 th	-AntistreptolysinO		
9 th	25 th	-C-reactiveprotein		0. UDDUT
	26 th	- VDRL/RPR	$17^{\text{th}}\&18^{\text{th}}$	9 VDRLTest
	27 th	-Rheumatoidfactor(RF)		
10th	28 th	Principle,techniquesanda pplicationof	19 th &20 th	10HIVScreening
	29 th	-ELISA(directandindirect)		
	30 th	Revision		
11th	31 st	Revision	$21^{st} \& 22^{nd}$	11HBsAgScreening
	32 nd	Revision	21 022	
	33 rd	Revision		
		2 nd Sessional		
12th	34 th	Revision	23^{rd} & 24^{th}	Revision
	35 th	Revision	23 621	
	36 th	Revision		
13th	37 th	Revision	25 th &26 th	Revision
	38 th	Revision	25 620	
	39 th	Revision		
14th	40 th	Revision	$27^{\text{th}} \& 28^{\text{th}}$	Revision
	41 st	Revision	21×20	
	42 nd	Revision		
15th	43 rd	Revision	ah at	Revision
	44 th	Revision	29 th &30 th	
	45 th	Revision		