

# Lesson plan

Name of the Faculty: Mr. Lovepreet Singh

Yadav Discipline : DMLT

Semester : 4th

Subject : Immunology and Mycology

Lesson Plan Duration : 15 weeks

Workload(Lecture /practical)per week (n hours) = Lecture= 03, Practical=02

Week	Theory	Topics(inculdingassignment/test)	Practical	Topic
	Lecture day		Practical Day	
1	1	Introduction to Immunology and mycology	1	Preparation of SDA
	2	Different types of fungi		
	3	Characteristics and classification of fungi		
2	4	Medically important Fungi	2	Preparation of CMA
	5	Introduction to culture media		
	6	SDA with or without antibiotics		
3	7	Preparation of CMA	3	Demonstration of BHI and SDA
	8	Preparation of BHI		
	9	Collection and processing of samples of fungal infection		
4	10	KOH introduction and Preparation	4	Perform wet mount technique KOH
	11	India ink preparation		
	12	LCB introduction and preparation		
5	13	Test 1 <sup>st</sup> and 2 <sup>nd</sup> unit	5	Perform wet mount technique LCB
	14	Introduction to fungal cultivation		
	15	Medically important Fungi		
6	16	Introduction to laboratory contaminants	6	Demonstration of Common lab fungal contaminants
	17	Introduction to Candidia.		
	18	Introduction to Aspergillus		
7	19	Introduction to Penicillium	7	Perform sample collection of infected skin,hair,nails
	20	Introduction to Rhizopus and Mucor		
	21	Introduction to Mucor		
8	22	test 3 <sup>rd</sup> unit	8	Processing of infected skin,hair and nail
	23	Assignment of 3rd unit		
	24	viva 1,2,3 unit		
9	25	Introduction of antigens	9	Perform widal test by Slide method
	26	Types of antigens		
	27	Definition of antibodies		
10	28	Types of antibodies	10	Perform widal test by tube method
	29	Different properties of antibodies		
	30	Introduction of antigen-antibody reaction		
11		Principle and application of agglutination	11	Perform ASO by kit
	32	Precipitation		
	33	Flocculation		

12	34	Introduction to Serological test	12	Perform CRP
	35	Widal Slide and Tube Method		
	36	CRP introduction & Procedure		
13	37	VDRL/RPR introduction and procedure	13	Perform RF test
	38	RF estimation and procedure		
	39	ASO test Introduction and Procedure.		
14	40	Test, CRP, VDRL, RF	14	VDRL test
	41	Introduction of ELISA Direct and Indirect		
	42	Principle and estimation of ELISA		
15	43	Application of ELISA	15	HIV screening
	44	Revision of ELISA		
	45	Viva of ELISA		