

Koyana Education Society Patan
Balasaheb Desai College Patan
Monthly Teaching Plan
Year 2023-24

Department: Microbiology
 Month: August

Class: B.Sc. Part - I
 Paper No.: I (Introduction to Microbiology)

Sr. No.	Date	Theory /Practical	Unit	Sub Unit	Teaching method	Teaching Aid/ICT Use
1	7	Theory/Practical	History and mile stones	Alexander Flemming , Beijerink Negative Staining	Lecture Practical Demo	Laboratory Experiment
2	8	Theory /Practical		Sergi Winogradsky Gram Staining	Lecture Practical Demo	Chart Laboratory
3	9	Theory	Bacterial cell structure and Function	Morphology	Lecture	
4	10	Theory		Cell Wall –Gram Positive	Practical Demo	Laboratory Experiment
5	14	Theory/Practical		Cell Wall –Gram Negative	Lecture	PPT
6	17	Theory		Cell membrane	Practical Demo	U tube
7	21	Theory /Practical		Flagella Cell Wall Staining	Lecture	Device
8	22	Theory /Practical		Capsule Volutin granule Staining	Practical Demo	PPT
9	23	Theory		Ribosomes, Mesosomes	Lecture	PPT
10	24	Theory		Inclusion bodies	Practical Demo	U tube
11	28	Theory/ Practical		Plasmid, Chromosomes Media preparation	Lecture Practical Demo	U tube
12	29	Theory /Practical		Endospore Media Preparation	Lecture Practical Demo	PPT
13	30	Theory		Sporulation	Lecture	U tube
14	31	Theory		Germination	Lecture	Device

B.Sc.II						
Sr. No.	Date	Theory /Practical	Unit	Sub Unit	Teaching method	Teaching Aid/ICT Use
1	8	Theory & Practical	B) Effect of environmental factors on microbial growth	Effect of Salt Osmotic pressure	Lecture	
2	9	Theory		Heavy metal	Lecture	PPT
3	10	Theory		Radiations	Lecture Practical Demo	You tube
4	11	Theory	C) Transport across cell membrane	Diffusion	Lecture Practical Demo	Device
5	14	Theory & Practical		Heavy metal Active transport	Lecture	PPT
6	17	Theory		Group translocation	Lecture	PPT
7	18	Theory	Water Microbiology	Sources of m. o.'s in water	Lecture Demo	You tube
8	21	Practical		Effect of UV light	Lecture	
9	22	Theory		Fecal pollution of water	Lecture	Practical Demo
10	23	Theory		Indicators of fecal pollution	Lecture	Practical Demo
11	24	Theory		Routine bacteriological analysis of water	Lecture	Practical Demo
12	25	Theory		SPC	Lecture	Practical Demo
13	28	Theory & Practical		Peptone Nitrate broth preparation Test for coliform	Practical demo Lecture	
14	29	Theory & Practical		Nitrate reduction test Qualitative test	Practical demo Lecture	
15	30	Theory		Presumptive test	Lecture	
16	31	Theory		Confirmed test ,completed test	Lecture	

B.Sc.III						
Sr. No.	Date	Theory /Practical	Unit	Sub Unit	Teaching method	Teaching Aid/ICT Use
1	7	Theory	Methods of Enumeration of Virus Lysogeny	Latex droplet	Lecture	
2	8	Theory		Plaque and pock assay	Lecture	PPT
3	9	Theory		Introduction	Lecture	You tube
4	10	Theory		Lysogeny	Lecture	Device
5	11	Theory		Lysogeny	Lecture	PPT
6	12	Theory		Lysogeny	Lecture	PPT
7	14	Theory		Lysogeny	Lecture Demo	You tube
8	17	Theory		Adsorption ,penetration	Lecture	You tube
9	18	Theory		Adsorption ,penetration	Lecture	You tube
10	19	Theory		Adsorption ,penetration	Lecture	You tube
11	21	Theory		Circularisation of phage genome	Lecture	You tube
12	23	Theory		Circularisation of phage genome	Lecture	You tube
13	24	Theory		Genetic map	Lecture	You tube
14	25	Theory	Animal virus reproduction	Genetic map	Lecture	You tube
15	26	Theory	Reproduction of plant virus	Establishment	Lecture	Poster
16	28	Theory	Oncogenesis	Establishment	Lecture Demo	Poster
17	29	Theory	Types of cancers		Lecture	Poster
18	30	Theory	Hypothesis	Maintenance of repression	Lecture	Poster
19	31	Theory		Intergeration	Lecture	Poster

Sapkal

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