

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

Department: Microbiology
Month: December

Class: B.Sc. Part - I
Paper No.: III (Bacteriology)

Sr.No.	Date	Theory /Practical	Unit	Sub Unit	Teaching method	Teaching Aid/ICT Use
1	4	practical	Microbial Nutrition and Culture Media	A. Nutritional requirements	Lecture	PPT
2	4	Practical		Micronutrients	Lecture	U tube
3	6	Theory		Macronutrients	Practical Demo	Device
4	7	Theory		Carbon, Energy source	Lecture, Practical Demo	PPT
5	11	Practical		Water , Oxygen	Lecture	PPT
6	12	Practical		Hydrogen, Nitrogen	Lecture, Practical Demo	U tube
7	14	Theory		Sulphur, Phosphorous	Practical Demo	PPT
8	15	Theory		Growth factors –	Lecture	U tube
9	18	Practical	Nutritional types of microorganism	auxotroph, prototroph fastidious organisms	Practical Demo	Device
10	19	Practical		based on carbon and energy sources	Lecture Practical Demo	PPT Laboratory
11	20	Theory		Autotrophs	Lecture	U tube
12	21	Theory		Heterotrophs	Lecture	U tube
13	22	Theory		Phototrophs	Lecture	PPT
14	25	Practical		Chemotrophs	Lecture	Laboratory
15	26	Practical		Photoautotrophs Chemoautorphos	Lecture	PPT
16	28	Theory		Photoheterotrophs	Lecture	Laboratory
17	29	Theory		Chemoheterotroph	Lecture	PPT

B.Sc.II						
Sr. No.	Date	Theory /Practical	Unit	Sub Unit	Teaching method	Teaching Aid/ICT Use
1	4	Theory & Practical	Medical Microbiology	Definitions – Host, Parasite, Saprophytes, Commensal, Infection, Etiological agent, , Carriers,	Lecture	
2	5	Practical		Disease, Pathogen, Opportunistic pathogen, True 5 pathogen, Virulence, Pathogenicity , Fomite, Incubation period	Lecture	PPT
3	6	Theory		Morbidity rate, Mortality rate, epidemiology, etiology, Prophylaxis,	Lecture Practical Demo	You tube
4	7	Theory		Antigen, Antibody, Hapten, Vaccine, Immunity	Lecture Practical Demo	Device
5	14	Practical		Virulence factors (production of endotoxins, exotoxins,)	Lecture	PPT
6	18	Theory		enzymes,	Lecture	PPT
7	19	Theory		escaping of phagocytosis	Lecture Demo	You tube
8	20	Theory		Types of diseases – i) Epidemic, ii) Endemic,	Lecture	PPT
9	21	Theory & practical		iii) Pandemic, iv) Sporadic.	Lecture	You tube
10	25	Theory	Types of infections	– Chronic, acute, primary, secondary, reinfection,	Lecture	Device
11	26	Theory		Congenital, local, generalized, Covert, Overt, Simple, Mixed,	Lecture Demo	PPT
12	27	Theory		Iatrogenic, Endogenous, Exogenous, Latent, Pyogenic, Nosocomia	Lecture	PPT
13	28	Practical	Modes of transmission of diseases	Transmission by air,	Demonstration	You tube

B.Sc.III						
Sr. No.	Date	Theory /Practical	Unit	Sub Unit	Teaching method	Teaching Aid/ICT Use
1	4	Theory	BACTERIAL DISEASES	<i>Clostridium perfringens</i>	Lecture	
2	5	Theory		<i>Treponema pallidum</i>	Lecture	PPT
3	6	Theory		<i>Treponema pallidum</i>	Lecture	You tube
4	7	Theory		<i>Treponema pallidum</i>	Lecture	You Tube
5	8	Theory		<i>Pseudomonas aeruginosa</i>	Lecture	PPT
6	14	Theory		<i>Staphylococcus aureus</i>	Lecture	PPT
7	15	Theory		<i>Staphylococcus aureus</i>	Lecture Demo	You tube
8	19	Theory		<i>Leptospira interrogans</i>	Lecture	You tube
9	20	Theory		<i>Klebsiella pneumonia</i>	Lecture	You tube
10	21	Theory	BACTERIAL DISEASES	<i>Klebsiella pneumonia</i>	Lecture	You tube
11	22	Theory		<i>Plasmodium falciparum (malaria)</i>	Lecture	You tube
12	26	Theory		<i>Rabies virus</i>	Lecture	You tube
13	27	Theory		<i>Rabies virus</i>	Lecture	You tube
14	28	Theory		<i>Dengue virus</i>	Lecture	You tube
15	29	Theory		<i>Dengue virus</i>	Lecture Demo	Question Bank

Gapkal

Gapkal
Head
 Department of Microbiology
 Balasaheb Desai College, Patan
 Dist. Satara 415 206

