

Koyana Education Society Patan  
**Balasaheb Desai College Patan**

**Monthly Teaching Plan**

**Year 2023-24**

Department: Microbiology

Month: July

Class: B.Sc. Part – I/II/III

Paper No.: I (Introduction to Microbiology)

Sr. No.	Date	Theory /Practical	Unit	Sub Unit	Teaching method	Teaching Aid/ICT Use
1	10	Theory	History and mile stones	Introduction	Lecture	
2	11	Theory		Spontaneous generation	Lecture	PPT
3	12	Theory & Practical		Spontaneous generation GLP	Lecture Practical Demo	U tube
4	13	Theory & Practical		Antoni Van Leewenhoek Microscope	Lecture Practical Demo	Device
5	17	Theory		Louis Pasteur	Lecture	PPT
6	18	Theory		Louis Pasteur	Lecture	PPT
7	19	Theory & Practical		Robert Koch Monochrome Staining	Lecture Demo	U tube
8	20	Theory & Practical		Ivanowsky Monochrome Staining	Lecture	
9	24	Theory		Joseph Lister	Lecture	

<b>Bsc II</b>						
1	11	Theory	Growth and effect of environmental factors on microbial growth	Growth phases	Lecture	PPT
2	12	Theory		Growth phases	Lecture	PPT
3	13	Practical		Effect of temperature Measurement of growth- Cell number	Lecture Practical Demo	You tube
4	14	Theory		Measurement of growth- Cell mass	Lecture Practical Demo	Device
5	18	Theory		Types of Growth – synchronous	Lecture	PPT
6	19	Theory		Types of Growth – Continuous	Lecture	PPT
7	20	Theory		Diauxic growth	Lecture Demo	You tube

8	21	Theory		Effect of temperature	Lecture	Lab
9	24	Practical		Effect of pH	Lecture	lab

<b>B.Sc. III</b>						
1	10	Theory	Structural properties	Capsid	Lecture	
2	11	Theory		Nucleic acid and envelope	Lecture	PPT
3	12	Theory		T4 phage	Lecture Practical Demo	You tube
4	13	Theory		TMV	Lecture Practical Demo	Device
5	14	Theory		HIV	Lecture	PPT
6	15	Theory		Viroid and prions	Lecture	PPT
7	17	Theory	Reproduction of bacteriophage	One step growth expt.	Lecture Demo	You tube
8	18	Theory		T4 phage reproduction	Lecture	You tube
9	19	Theory		T4 phage reproduction	Lecture	You tube
10	20	Theory	Isolation and cultivation of viruses	Animal – Tissue culture, chick embryo, live animals	Lecture	You tube
11	21	Theory		Plant virus	Lecture	You tube
12	22	Theory		Bacteriophage	Lecture Practical Demo	You tube
13	24	Theory		Purification of viruses	Lecture Practical Demo	You tube

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