

Annual Teaching Plan

Academic Year: 2022-2023

Semester: M. Sc. I Semester I

Department: Microbiology (PG)

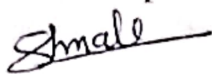
Subject: Microbiology

Course Title: Paper IV Immunology CC-2403

Name of the teacher: Dr. S. D. Mali

Month: September			Module/Unit:	Sub-units planned	
				Theory	Practicals
Lectures	Practicals	Total	Unit I	1. MHC complex 2. Signal transduction 3. T-cell sensitization	Practicals of Taxonomy
12	8	20			
Month: October			Module/Unit:	Sub-units planned	
Lectures	Practicals	Total	Unit II	1. Complement System 2. Genetics of Ab synthesis 3. Antibody diversity 4. Immunomodulation 5. Vaccines	Practicals of Taxonomy
12	8	20			
Month: November			Module/Unit:	Sub-units planned	
12	8	20	Unit III	1. Transplantation immunology 2. Tumour immunology	Practicals of Virology
Month: December			Module/Unit:	Sub-units planned	
12	8	20	Unit IV	1. Serodiagnosis 2. Immunochemical techniques and their applications 3. PCR based diagnostic tests	Practicals of Virology

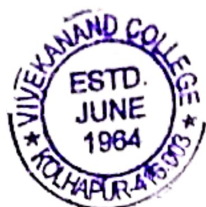
Name and Signature of Teacher


Dr. S. D. Mali

Name and Signature of HOD


Dr. G. K. Sontakke

HEAD
DEPARTMENT OF MICROBIOLOGY
VIVEKANAND COLLEGE, KOLHAPUR
(AUTONOMOUS)



Annual Teaching Plan

Academic Year: 2022-2023

Semester: M. Sc. I Semester II

Department: Microbiology (PG)

Subject: Microbiology

Course Title: Paper V Microbial Physiology, Biochemistry & Metabolism CC-2407

Name of the teacher: Dr. S. D. Mali

Month: March			Module/Unit:	Sub-units planned-Theory	Sub-units planned-Practicals
Lectures	Practicals	Total	Unit I	1. Carbohydrate metabolism 2. Oxidation of hydrocarbons 3. Oxidation of fatty acids & phospholipids 4. Catabolism of amino acids 5. Pasteur & Crabtree effect 6. Autotrophy	Practicals of Ecology
12	8	20			
Month: April			Module/Unit:	Sub-units planned- Theory	Sub-units planned-Practicals
Lectures	Practicals	Total	Unit II	1. Respiratory metabolism 2. Photophosphorylation in bacteria 3. Drug metabolism 4. Fermentation of bacteria 5. Protein chemistry 6. Biosynthesis of amino acids 7. Lipid metabolism in prokaryotes	Practicals of Medical Microbiology
12	8	20			
Month: May			Module/Unit:	Sub-units planned - Theory	Sub-units planned-Practicals
12	8	20	Unit III	1. Phospholipid biosynthesis 2. Purine & pyrimidine biosys. 3. Osmosis 4. Permeation 5. Biosignaling 6. Microbial hormones and quorum sensing	Practicals of Medical Microbiology

Name and Signature of Teacher

S. D. Mali

Dr. S. D. Mali

Name and Signature of HOD

G. K. Sontakke

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