

Name of Teacher - Ms. V.V. Misal.

Sr.No	Syllabus Allotted	Syllabus Completed	Remaining Syllabus
	B.sc.I sem I		
1.	<p>Paper II : General Principles of Microscopy.</p> <p>Unit I</p> <p>1. Types of Microscope</p> <p>2. stain &amp; staining techniques</p> <p>Practical:</p> <p>1. Introduction to Microscope.</p> <p>2. Monochrome staining</p> <p>3. Gram's staining</p> <p>4. Capsule staining</p>	<p>Paper II</p> <p>General Principles of Microscopy</p> <p>Unit: I</p> <p>1. Types of Microscope .</p> <p>2. stain and staining techniques .</p> <p>Practical:</p> <p>study of Microscope ,</p> <p>Monochrome staining</p> <p>Gram's staining ,</p> <p>Capsule staining .</p>	<p>—</p> <p>—</p>

Signature of Teacher

*V.V. Misal*



Signature of H.O.D  
DEPARTMENT OF MICROBIOLOGY  
VIVEKANAND COLLEGE, KOLHAPUR  
(AUTONOMOUS)

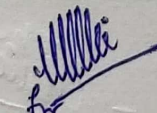
*V.V. Misal*

Name of Teacher - V.V. Misal

Sr.No	Syllabus Allotted	Syllabus Completed	Remaining Syllabus
	<p>B.sc. II Sem II</p> <p>Paper III:</p> <p>Microbial Physiology, metabolism and applied Microbiology.</p> <p>Unit: IV</p> <p>Types of fermentation                      Design of fermentor                      Fermentation Media.</p> <p>Practicals:                      Micrometry                      Phenylalanine deamination test                      Gelatinase test                      Lecithinase test</p>	<p>B.sc. II Sem III</p> <p>Paper III</p> <p>Microbial Physiology, metabolism and applied Microbiology.</p> <p>Unit IV:</p> <p>Types of fermentation                      Design of fermentor                      Fermentation media.</p> <p>Practicals:                      Micrometry                      Phenylalanine deamination test                      Gelatinase test                      Lecithinase test</p>	<p>—</p> <p>—</p>

  
 Signature of Teacher



  
 Signature of H.O.D  
 DEPARTMENT OF MICROBIOLOGY  
 VIVEKANAND COLLEGE, KOLHAPUR  
 (AUTONOMOUS)

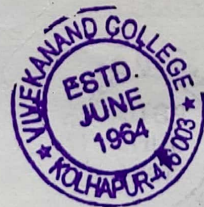




Name of the teacher: Ms. V. V. Misal.

Sr.No	Syllabus Allotted	Syllabus Completed	Remaining Syllabus
	Molecular Biology 1. Gene transfer in bacteria 2. Fate of exogenote 3. Modes of gene transfer. 4. DNA repair  B.Sc. III sem VI Virology and microbial genetics.  Sec II Unit I i) Mutations. ii) Methods of isolation and detection of mutants.	Molecular Biology. Gene transfer in bacteria. 2. Fate of exogenote. 3. Modes of gene transfer. 4. DNA repair.  B.Sc. III sem VI Virology and microbial genetics.  Sec II Unit I i) Mutations. ii) Methods of isolation and detection of mutants.	—          —

Signature of Teacher

Signature of H.O.D  
 HEAD

DEPARTMENT OF MICROBIOLOGY  
 VIVEKANAND COLLEGE, KOLHAPUR  
 (AUTONOMOUS)



Vivekanand College (Autonomous),  
 Department Of Microbiology  
 Syllabus completion report 2019-2020

Name of Teacher - Mr. S. D. Gadgil

Sr.No	Syllabus Allotted	Syllabus Completed	Remaining Syllabus
1.	<u>B.Sc. I Sem I</u> <u>Paper I Section I</u> <u>UNIT - I</u> I. History and milestones in Microbiology II. Scope of Microbiology III. Bacterial systematics <u>Practicals - As per syllabus</u>	<u>B.Sc. I Sem I</u> <u>Paper I Section I</u> <u>UNIT - I</u> I. History and milestones in Microbiology II. Scope of protein III. Bacterial systematics <u>Practicals - As per syllabus</u>	- -

*[Handwritten Signature]*

Signature of Teacher



*[Handwritten Signature]*

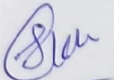
HEAD  
 DEPARTMENT OF MICROBIOLOGY  
 VIVEKANAND COLLEGE, KOLHAPUR  
 (AUTONOMOUS)

Signature of H.O.D

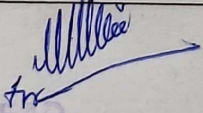
Vivekanand College (Autonomous),  
Department Of Microbiology  
Syllabus completion report 2019-2020

Name of Teacher - Mr. S.D. Gabale

Sr.No	Syllabus Allotted	Syllabus Completed	Remaining Syllabus
2.	<u>B.Sc. II Sem III</u> Paper V Section I <u>UNIT - II</u> 1. Catabolism of glucose II. Substrate level phosphorylation III. Oxidative phosphorylation  <u>Practicals -</u> As per syllabus	<u>B.Sc. II Sem III</u> Paper V Section I <u>UNIT - II</u> 1. Catabolism of glucose II. Substrate level phosphorylation III. Oxidative phosphorylation  <u>Practicals -</u> As per syllabus	-

  
Signature of Teacher



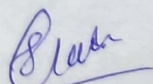
  
Signature of H.O.D  
DEPARTMENT OF MICROBIOLOGY  
VIVEKANAND COLLEGE, KOLHAPUR  
(AUTONOMOUS)



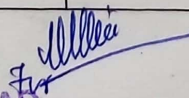
Vivekanand College (Autonomous),  
 Department Of Microbiology  
 Syllabus completion report 2019-2020

Name of Teacher - Mr. S.D. Gabale

Sr.No	Syllabus Allotted	Syllabus Completed	Remaining Syllabus
3	<p><u>B.Sc. III Sem</u></p> <p><u>Paper V Section II</u></p> <p>I. UNIT - I</p> <p>II. UNIT - II</p> <p>III. UNIT - III</p> <p>IV. UNIT - IV</p> <p><u>Practicals</u></p> <p>I. Isolation of auxotrophic mutants</p> <p>II. Isolation of streptomycin resistant mutants.</p> <p>III. Isolation of DNA</p> <p>IV. Agarose gel electrophoresis.</p>	<p><u>B.Sc III Sem</u></p> <p><u>Paper V Section II</u></p> <p>I. UNIT - I</p> <p>II. UNIT - II</p> <p>III. UNIT - III</p> <p>IV. UNIT - IV</p> <p><u>Practicals</u> -</p> <p>I. Isolation of auxotrophic mutants</p> <p>II. Isolation of streptomycin resistant mutants</p> <p>III. DNA isolation</p> <p>IV. Agarose gel electrophoresis</p>	<p>—</p> <p>—</p>

  
 Signature of Teacher



  
 HEAD  
 DEPARTMENT OF MICROBIOLOGY  
 VIVEKANAND COLLEGE, KOLHAPUR  
 (AUTONOMOUS)

Name of Teacher - Mr. S. D. Gabale

Sr.No	Syllabus Allotted	Syllabus Completed	Remaining Syllabus
1.	<p><u>B.Sc I Sem II</u></p> <p><u>Paper III Section - I</u></p> <p><u>UNIT - I</u></p> <p>i) Bacterial cell organization</p> <p>ii) Cell wall, cell membrane, Flagella, Capsule, pili, endospore, nucleoid, ribosome, mesosome,</p> <p>iii) Reserve food materia.</p> <p><u>Practicals -</u></p> <p>- As per syllabus</p>	<p><u>B.Sc. I Sem II</u></p> <p><u>Paper III Section - I</u></p> <p><u>UNIT - I</u></p> <p>i) Bacterial cell organization</p> <p>Cell wall, cell membrane, Flagella, Capsule, pili, endospore, nucleoid, ribosome, mesosome.</p> <p>ii) Reserve food material.</p> <p><u>Practicals</u></p> <p>- As per syllabus</p>	-

*[Handwritten Signature]*

Signature of Teacher



*[Handwritten Signature]*


HEAD  
DEPARTMENT OF MICROBIOLOGY  
VIVEKANAND COLLEGE, KULHAPUR  
(AUTONOMOUS)

Signature of H.O.D

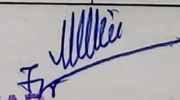


Name of Teacher - Mr. S.D. Gabale

Sr.No	Syllabus Allotted	Syllabus Completed	Remaining Syllabus
2.	<u>B.Sc. II Sem IV</u> <u>Paper VIII - Section II</u> <u>Unit - II</u> 1. Immunity 2. Non-specific defense mechanism 3. Antigens 4. Antibodies 5. Theories of Ab production 6. Immune response 7. Mechanism of Ag-Ab reactions 8. Types of Ag-Ab reactions. 9. Organs of immune system  <u>Practicals - As per syllabus</u>	<u>B.Sc. II Sem IV</u> <u>Paper VIII Section II</u> <u>Unit - II</u> 1. Immunity 2. Non-specific defense mechanism 3. Antigens 4. Antibodies 5. Theories of Ab production 6. Immune response 7. Mechanism of Ag-Ab reactions 8. Types of Ag-Ab reactions 9. Organs of immune system,  <u>Practicals - As per syllabus</u>	-

  
 Signature of Teacher



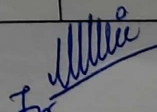
  
 HEAD  
 DEPARTMENT OF MICROBIOLOGY  
 VIVEKANAND COLLEGE, KOLHAPUR  
 (AUTONOMOUS)

Name of Teacher - Mr. S. D. Gabale

Sr.No	Syllabus Allotted	Syllabus Completed	Remaining Syllabus
3.	<p><u>B.Sc. III Sem VI</u>  <u>Paper VII Section I</u></p> <p>I. UNIT - I                      II. UNIT - II                      III. UNIT - III                      IV. UNIT - IV</p> <p><u>Practicals</u>                      I. Isolation of coliphages                      II. Isolation of streptomycin resistant mutants                      III. One step growth experiment                      IV. BOD                      V. COD</p>	<p><u>B.Sc. III Sem VI</u>  <u>Paper VII, Section I</u></p> <p>I. UNIT - I                      II. UNIT - II                      III. UNIT - III                      IV. UNIT - IV</p> <p><u>Practicals</u>                      I. Isolation of coliphages                      II. One step growth experiment                      III. BOD                      IV. COD</p>	-

  
 Signature of Teacher



  
 HEAD  
 DEPARTMENT OF MICROBIOLOGY  
 VIVEKANAND COLLEGE, KOLHAPUR  
 (AUTONOMOUS)

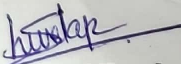




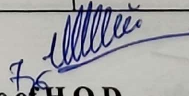
Vivekanand College Kolhapur (Autonomous),  
 Department Of Microbiology  
 Syllabus completion report 2019-2020

Name of the teacher: S. A. Pise

Sr.No	Syllabus Allotted	Syllabus Completed	Remaining Syllabus
1.	B.Sc. II Sem III <u>Practicals:-</u> As per syllabus	B.Sc. II Sem III <u>Practicals:-</u> As per syllabus.	Nil.
3.	<u>B.Sc. III Sem V</u> Agricultural Microbiology Unit I Unit II <u>Practicals:-</u> 1. Isolation of <u>Xanthomonas</u> 2. Isolation of <u>Azotobacter</u> 3. Isolation of <u>Rhizobium</u>	<u>B.Sc. III Sem V</u> Agricultural Microbiology Unit I Unit II <u>Practicals:-</u> 1. Isolation of <u>Xanthomonas</u> 2. Isolation of <u>Azotobacter</u> 3. Isolation of <u>Rhizobium</u>	Nil.

  
 Signature of Teacher



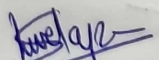
  
 Signature of H.O.D  
 HEAD  
 DEPARTMENT OF MICROBIOLOGY  
 VIVEKANAND COLLEGE, KOLHAPUR  
 (AUTONOMOUS)



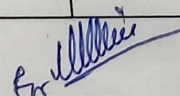
Vivekanand College Kolhapur (Autonomous),  
Department Of Microbiology  
Syllabus completion report 2019 2020

Name of the teacher: S. A. Pise.

Sr.No	Syllabus Allotted	Syllabus Completed	Remaining Syllabus
1.	<u>B.Sc. I Sem II</u> 1. Enrichment & Isolation of microorganisms from natural environment. 2. Preservation of microbial culture 3. Systematic study of pure culture 4. Concept of culture collection. <u>Practicals :-</u> As per syllabus	<u>B.Sc. I Sem II</u> 1. Enrichment & Isolation of microorganisms from natural environment. 2. preservation of microbial culture 3. Systematic study of pure culture 4. Concept of culture collection <u>Practicals :-</u> As per syllabus.	Nil-       Nil
2.	<u>B.Sc. II Sem IV</u> 1. Definition. 2. Virulence factor. 3. Types of disease & infection. 4. Modes of transmission of disease 5. General principle & prevention of disease. 6. Normal flora	<u>B.Sc. II Sem IV</u> 1. Definition 2. Virulence factor 3. Types of disease & infection. 4. Modes of transmission of disease 5. General principle & prevention of disease 6. Normal flora	Nil

  
Signature of Teacher



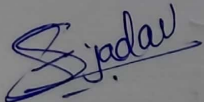
  
Signature of H.O.D  
HEAD  
DEPARTMENT OF MICROBIOLOGY  
VIVEKANAND COLLEGE, KOLHAPUR  
(AUTONOMOUS)






Name of Teacher - Miss. S.V. Jadhav

Sr.No	Syllabus Allotted	Syllabus Completed	Remaining Syllabus
1.	1. Microbial Nutrition - <u>B.Sc. I. Sem I</u> A) Nutritional requirements of micro organisms. B) Nutritional types of micro-org- anisms based on carbon & energy sources.	1. Microbial nutrition A) Nutritional requirements of mo's. B) Nutritional types of micro-organisms based on carbon & energy sources.	- Nil - - Nil -
	2. Culture media	2. culture media	- Nil -
	3. Cultivation of micro-organisms.	3. Cultivation of micro-organ- isms.	- Nil -
#	Practicals :- As per syllabus	# Practicals :- As per syllabus.	- Nil -
2.			

  
 Signature of Teacher




  
 HEAD  
 DEPARTMENT OF MICROBIOLOGY  
 VIVEKANAND COLLEGE, KOLHAPUR  
 (AUTONOMOUS)

Vivekanand College (Autonomous),  
Department Of Microbiology  
Syllabus completion report 2019-2020

Name of Teacher - Miss. S.V. Jadhav.

Sr.No	Syllabus Allotted	Syllabus Completed	Remaining Syllabus
1.	<p>A] Growth: <u>B.Sc. III, Sem III</u>: THEORY Growth phases, measurement of growth, continuous growth &amp; diauxic growth, synchronous growth.</p> <p>B] Effect of environmental factors on microbial growth.</p> <p>C] Transport across the cell membrane. Active Transport</p> <p># Practicals As per syllabus</p>	<p>A] Growth: Growth phases; measurement of growth, continuous growth &amp; diauxic growth, synchronous growth</p> <p>B] Effect of environmental factors on microbial growth.</p> <p>C] Transport across the cell membrane Active Transport.</p> <p># Practicals As per syllabus</p>	<p>— Nil —</p> <p>— Nil —</p> <p>— Nil —</p> <p>— Nil —</p>

  
Signature of Teacher



  
HEAD  
Signature of H.O.D.  
DEPARTMENT OF MICROBIOLOGY  
VIVEKANAND COLLEGE, KOLHAPUR  
(AUTONOMOUS)



Name of Teacher - Miss. S.V. Jadhav

Sr.No	Syllabus Allotted	Syllabus Completed	Remaining Syllabus
	<p>Sem = B.Sc. III Sem V</p> <p><u>THEORY</u></p> <p>Industrial &amp; microbial biochemistry.</p> <p>1. Food microbiology</p> <p>2. Industrial microbiology -</p> <p>(i) Industrial production of</p> <p>a) amylase</p> <p>b) Grape wine</p> <p>c) Penicillin</p> <p>d) citric acid</p> <p>e) SCP.</p> <p>(ii) Microbial production of</p> <p>a) Vit. B12</p> <p>b) Amino acid- lysine</p> <p>(iii) Probiotics.</p> <p>(iv) Downstream processing &amp; product recovery</p> <p>(v) Testing of sterility, Pyrogen, carcinogenicity, toxicity &amp; allergens.</p>	<p><u>THEORY</u></p> <p>Industrial &amp; microbial biochemistry.</p> <p>1. Food microbiology</p> <p>2. Industrial microbiology -</p> <p>(i) Industrial production of</p> <p>a) amylase</p> <p>b) Grape wine</p> <p>c) Penicillin</p> <p>d) Citric acid</p> <p>e) SCP.</p> <p>(ii) Microbial production of</p> <p>a) Vit. B12</p> <p>b) Amino acid- lysine</p> <p>(iii) Probiotics.</p> <p>(iv) Downstream processing &amp; product recovery</p> <p>(v) Testing of sterility, Pyrogen, carcinogenicity, toxicity &amp; allergens.</p>	<p>— Nil —</p> <p>— Nil —</p> <p>— Nil —</p> <p>— Nil —</p> <p>— Nil —</p> <p>— Nil —</p>

*S. V. Jadhav*

Signature of Teacher

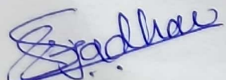


*J. M. Kulkarni*  
HEAD  
DEPARTMENT OF MICROBIOLOGY  
VIVEKANAND COLLEGE, KOLHAPUR  
(AUTONOMOUS)  
Signature of H.O.D


Vivekanand College (Autonomous),  
 Department Of Microbiology  
 Syllabus completion report 20 19 20 20

Name of Teacher - Miss. S.V. Jadhav.

Sr.No	Syllabus Allotted	Syllabus Completed	Remaining Syllabus
	#Practicals 1. Isolation of Lactic Acid Bacteria 2. Most Probable Number 3. Penicillin Assay	# Practical 1. Isolation of lactic Acid Bacteria. 2. Most Probable Number. 3. Penicillin Assay.	— Nil — — Nil — — Nil —

  
 Signature of Teacher



  
 HEAD  
 DEPARTMENT OF MICROBIOLOGY  
 VIVEKANAND COLLEGE, KOLHAPUR  
 (AUTONOMOUS)



Vivekanand College (Autonomous),  
Department Of Microbiology  
Syllabus completion report 2019-2020

Name of Teacher - Miss. S.V. Jadhav

Sr.No	Syllabus Allotted	Syllabus Completed	Remaining Syllabus
	B.Sc.I - Sem III - <u>THEORY</u>		
	1. Water microbiology	1. Water microbiology	— Nil —
	a) Sources of microorganisms in water	a) Sources of micro-organisms in water.	
	b) Fecal pollution of water	b) Fecal pollution of water.	
	c) Indicators of fecal pollution	c) Indicators of fecal pollution.	— Nil —
	d) Routine Bacteriological analysis of water.	d) Routine bacteriological analysis of water	
	2. Milk Microbiology	2. Milk Microbiology	— Nil —
	a) General composition of milk	a) General composition of milk	
	b) Sources of contamination in milk	b) Sources of contamination in milk	— Nil —
	c) Microbial examination of milk	c) Microbial examination of milk.	
	d) Spoilage of milk	d) Spoilage of milk	— Nil —
	# Practicals - as per practical syllabus	A Practicals as per practical syllabus	— Nil —

*S. V. Jadhav*

Signature of Teacher



HEAD

DEPARTMENT OF MICROBIOLOGY  
VIVEKANAND COLLEGE, KOLHAPUR  
(AUTONOMOUS)


Signature of H.O.D.



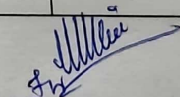
Vivekanand College (Autonomous),  
Department Of Microbiology  
Syllabus completion report 2014 20 20

Name of Teacher - Miss. S.V. Jadhav

Sr.No	Syllabus Allotted	Syllabus Completed	Remaining Syllabus
1.	<p>B.Sc.II Sem <u>IV</u> - <u>THEORY</u></p> <p>1. Forms of DNA</p> <p>2. Basic concepts of - gene, genome, genotype, phenotype, mutagen, recombination, muton, cistron, split genes.</p> <p>3. Genetic code</p> <p>4. Organization of chromosomal DNA in <u>E.coli</u></p> <p>B] Mutation :-</p> <p>1. Basic concepts of mutation.</p> <p>2. Spontaneous mutation</p> <p>3. Induced mutation</p> <p># <u>Practicals</u></p> <p>As per syllabus</p>	<p>1. Forms of DNA</p> <p>2. Basic concepts - gene, genome, genotype, phenotype, mutagen, recombination, muton, cistron, split genes.</p> <p>3. Genetic code</p> <p>4. Organization of chromosomal DNA in <u>E.coli</u>.</p> <p>B] Mutation :-</p> <p>1. Basic concept of mutations.</p> <p>2. Spontaneous mutation</p> <p>3. Induced mutations.</p> <p># <u>Practicals</u></p> <p>As per syllabus.</p>	<p>— Nil —</p> <p>— Nil —</p> <p>— Nil —</p> <p>— Nil —</p>

  
Signature of Teacher



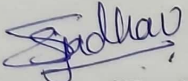
  
HEAD  
DEPARTMENT OF MICROBIOLOGY  
VIVEKANAND COLLEGE, KOLHAPUR  
(AUTONOMOUS)  
Signature of H.O.D



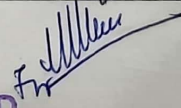
Vivekanand College (Autonomous),  
Department Of Microbiology  
Syllabus completion report 2019 2020

Name of Teacher - Miss J.V. Jadhav

Sr.No	Syllabus Allotted	Syllabus Completed	Remaining Syllabus
1.	B.Sc. <u>III</u> - Sem <u>VI</u> - <u>THEORY</u> Agricultural & Environmental microbiology 1. General characteristics of waste 2. Sewage microbiology 3. Characteristics & treatment of waste 4. Eutrophication 1. Biological safety in laboratory. 2. Environmental monitoring. 3. Environmental impact assessment.	Agricultural & Environmental microbiology. 1. General characteristics of waste 2. Sewage microbiology. 3. Characteristics & treatment of waste. 4. Eutrophication. 1. Biological safety in laboratory. 2. Environmental monitoring. 3. Environmental impact assessment  # <u>Practicals</u> - Vit. B12 Bioassay - Amylase Production - Estimation of amylase by DNSA method.	— Nil —  — Nil —  — Nil —  — Nil —  — Nil —

  
Signature of Teacher



  
HEAD  
DEPARTMENT OF MICROBIOLOGY  
VIVEKANAND COLLEGE, KOLHAPUR  
(AUTONOMOUS)  
Signature of H.O.D.

Vivekanand College (Autonomous),  
Department Of Microbiology  
Syllabus completion report 20 19 2020

Name of Teacher - S.V. Jadhav

Sr.No	Syllabus Allotted	Syllabus Completed	Remaining Syllabus
	- Sauerkraut production	- Sauerkraut production	- Nil -

*S.V. Jadhav*

Signature of Teacher



*[Signature]*  
HEAD  
DEPARTMENT OF MICROBIOLOGY  
VIVEKANAND COLLEGE, KOLHAPUR  
(AUTONOMOUS)  
Signature of H.O.D