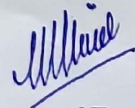


Vivekanand College (Autonomous),
Department Of Microbiology
Syllabus completion report 2018- 2019

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

Sr.No	Syllabus Allotted	Syllabus Completed	Remaining Syllabus
1	B.Sc. I, Sem I Paper II. General Principles of Microscopy. B.sc. II, sem III Paper III : Microbial Physiology, metabolism and applied microbiology. Unit: IV Types of fermentation. Typical Fermentor design. Fermentation media	B.Sc. I, Sem I Paper II : General Principles of Microscopy B.sc. II, sem III Paper III : Microbial Physiology, metabolism and applied microbiology Unit - IV Types of fermentation, Typical fermentor design Fermentation media.	—


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VIVEKANAND COLLEGE, KOLHAPUR
(AUTONOMOUS)



Name of Teacher - Ms. V. V. Misal

Sr.No	Syllabus Allotted	Syllabus Completed	Remaining Syllabus
	B.Sc. III, Sem V Immunology and Medical Microbiology. Sec I, Unit I - Cells of Immune System. Unit - II Cytokines Immunological tolerance. Unit - III Practical - ① Urine Analysis ② Antibiotic sensitivity ③ Blood Analysis	B.Sc. III, Sem V Immunology and Medical Microbiology. Sec I, Unit - I - Cells of Immune system. Membrane receptors for Antigen and their role. Unit - II Cytokines. Immunological tolerance. Interferon. Practical - ① Urine Analysis ② Antibiotic sensitivity. ③ Blood Analysis.	


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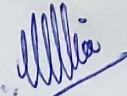
Vivekanand College (Autonomous), ---
Department Of Microbiology
Syllabus completion report 2018-2019

Name of Teacher - Mr. S.D. Gabale

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> 1. History and milestones in Microbiology 2. Scope of Microbiology 3. Bacterial systematics <u>Practicals -</u> As per syllabus	<u>B. Sc. I Sem. I</u> <u>Paper I Section</u> <u>UNIT-I</u> 1. History and milestones in Microbio. 2. Scope of Microbiology 3. Bacterial systematics <u>Practicals</u> As per syllabus.	


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Vivekanand College (Autonomous),
Department Of Microbiology
Syllabus completion report 2018-2019

Name of Teacher - Mrs. S. D. Gobale

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

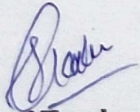

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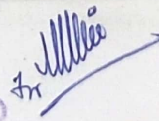

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DEPARTMENT OF MICROBIOLOGY
VIVEKANAND COLLEGE, KOLHAPUR

Name of Teacher - Mr. S. D. Gable

Sr.No	Syllabus Allotted	Syllabus Completed	Remaining Syllabus
3.	<u>B.Sc. III - Sem IV.</u> Paper V - Section II. UNIT-I UNIT-II UNIT-III UNIT-IV <u>Practicals -</u> 1. Isolation of auxotrophs 2. Isolation of streptomycin mutants. 3. Isolation of DNA. 4. Agarose gel electrophoresis.	<u>B.Sc. III Sem IV</u> Paper V - Section II UNIT-I UNIT-II UNIT-III UNIT-IV <u>Practicals -</u> 1. Isolation of auxotrophs. 2. Isolation of streptomycin mutants 3. Isolation of DNA. 4. Agarose gel electrophoresis	—


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Vivekanand College (Autonomous),
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Name of Teacher - Ms. R. R. Suryawanshi

Sr.No	Syllabus Allotted	Syllabus Completed	Remaining Syllabus
1.	Section II B.Sc. I Sem I Unit IV - 1. Microbial Nutrition A. Nutritional requirements of microorganisms. B. Nutritional types of microorganisms based on carbon & energy sources. 2. Culture media - Components of media. Types of media based on physical state, chemical state Types of media based on functions. 3. Cultivation of microorganisms. Practicals - As per syllabus.	Section II Unit IV 1. Microbial Nutrition A. Nutritional requirements of microorganisms. B. Nutritional types of microorganisms based on carbon & energy sources. 2. Culture media Components of media Types of media based on physical state, chemical state Types of media based on function. 3. Cultivation of microorganisms.	Nil Nil Nil Nil

Ms. R. R. Suryawanshi

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Vivekanand College (Autonomous),
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Name of Teacher - Ms. R. R. Suryawanshi

Sr.No	Syllabus Allotted	Syllabus Completed	Remaining Syllabus
	Section I B.Sc II Sem III Unit I	Section I Unit I	
A	Growth - Growth phases, measurement of growth, continuous growth, synchronous growth & diauxic growth.	A Growth - Growth phases, measurement of growth, continuous growth, synchronous growth & diauxic growth.	Nil
B.	Effect of environmental factors on microbial growth - temperature, pH, osmotic pressure, Heavy metal, Radiations.	B. Effect of Environmental factors on microbial growth - temperature, pH, osmotic pressure, Heavy metal, Radiations.	Nil
C.	Transport across the cell membrane - active transport Passive transport.	C. Transport across the cell membrane - active transport Passive transport.	Nil
	Practicals - As per syllabus.		Nil

Ms. R.R. Suryawanshi
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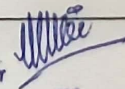


Name of Teacher - Ms. R. R. Suryawanshi

Sr.No	Syllabus Allotted - B.Sc. III Sem V	Syllabus Completed	Remaining Syllabus
1.	Food microbiology	Food Microbiology.	Nil
2.	Industrial Microbiology	Industrial Microbiology	
1.	Industrial production of a. Amylase b. Grape wine c. Penicillin d. Citric acid e. SCP	Industrial production of a. Amylase b. Grape wine c. Penicillin d. Citric acid e. SCP	
2.	Microbial production of a. Vitamin B12 b. Amino acid - Lysine	2. Microbial production of a. Vitamin B12 b. Amino acid - Lysine	Nil
3.	Probiotics.	3. Probiotics.	Nil
4.	Downstream processing & product recovery	4. Downstream processing & product recovery.	
5.	Testing of sterility, pyrogen, carcinogenicity, toxicity & allergens. Practical - Bioassay of vit B12 Bioassay of Penicillin.	5. Testing of sterility, pyrogen, carcinogenicity, toxicity & allergens. Practical - Bioassay of vit B12 Bioassay of Penicillin	Nil

Ms. R. R. Suryawanshi 
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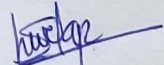


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Name of Teacher - S.A. Pise

Sr.No	Syllabus Allotted	Syllabus Completed	Remaining Syllabus
1.	B.Sc. I Sem I. 1. Types of Microorganism - General characteristics - of acellular, cellular organisms. 2. Structure of prokaryotic & eukaryotic cell. 3. Difference between prokaryotic & eukaryotic cell. 4. Control of microorganisms - a. Definition - b. Mode of action & application of physical & chemical character. <u>Practicals:-</u> As per syllabus.	B.Sc. I Sem I. 1. Types of microorganisms. General characteristics of acellular, cellular organism 2. Structure of prokaryotic & eukaryotic cell. 3. Difference between prokaryotic & eukaryotic cell. 4. Control of microorganisms. a. Definition. b. Mode of action & application. <u>Practicals</u> As per syllabus	Nil Nil


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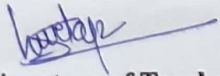

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Vivekanand College (Autonomous),
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Name of Teacher - S.A-Pise ,

Sr.No	Syllabus Allotted	Syllabus Completed	Remaining Syllabus
2	B.Sc. II Sem III 1. Air microbiology 2. Food microbiology 3. Bioinformatics. 4. Biostatistics. <u>Practicals</u> As per syllabus.	B.Sc. II Sem III 1. Air microbiology 2. Food microbiology 3. Bioinformatics. 4. Biostatistics. <u>Practicals.</u> As per syllabus.	Nil Nil


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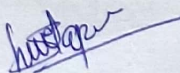

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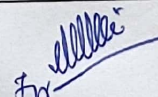
Vivekanand College (Autonomous),
Department Of Microbiology
Syllabus completion report 2018-2019

Name of Teacher - S.A. Pise

Sr.No	Syllabus Allotted	Syllabus Completed	Remaining Syllabus
3.	B.Sc. III Sem IV Unit 1 Unit 2 <u>Practicals:-</u> 1. Isolation of <u>Azotobacter</u> from soil. 2. Isolation of PSB from soil. 3. Isolation of <u>Xanthomonas</u> from infected plant. 4. Isolation of <u>Rhizobium</u> from root nodule.	B.Sc. III sem IV Section II Unit I Unit II <u>Practicals :-</u> 1. Isolation of <u>Azotobacter</u> from soil. 2. Isolation of PSB from soil. 3. Isolation of <u>Xanthomonas</u> from infected plant. 4. Isolation of <u>Rhizobium</u> from root nodule	Nil Nil.


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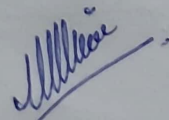

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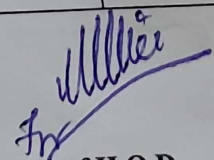
Vivekanand College (Autonomous),
Department Of Microbiology
Syllabus completion report 2018-2019

Name of Teacher - MS. V. V. Misal .

Sr.No	Syllabus Allotted	Syllabus Completed	Remaining Syllabus
	B.sc.I , Sem II Paper II Bacteriology and applied Microbiology. Unit II Proteins Carbohydrates Lipids Enzymes Nucleic Acids . B.sc.II , Sem IV Microbial Genetics, Molecular Biology. → Unit - II	B.sc.I , Sem II Paper II Bacteriology and applied Microbiology . Unit II Proteins . Carbohydrates Lipids Enzymes Nucleic Acids . B.sc.II , sem IV Microbial Genetics, Molecular Biology . Unit-II	


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Vivekanand College (Autonomous),
Department Of Microbiology
Syllabus completion report 2018-2019

Name of 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. 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.	

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Vivekanand College (Autonomous),
Department Of Microbiology
Syllabus completion report 2018-2019

Name of Teacher - Mr. S. D. Gabale.

Sr.No	Syllabus Allotted	Syllabus Completed	Remaining Syllabus
1.	<u>B.Sc. I Sem II</u> Paper III Section I <u>UNIT I -</u> 1. Bacterial cell organization - a. Cell size, shape and arrangement. b. Cell wall, cell membrane, Flagella, Capsule, pili, Endospore, nucleoid, ribosome, mesosome. c. Reserve Food material <u>Practicals</u> - As per syllabus.	<u>B.Sc. I Sem II</u> Paper III Section I <u>UNIT - I -</u> 1. Bacterial cell organization a. Cell size, shape & arrangement b. Cell wall, cell membrane, Flagella, capsule, pili, ribosome, mesosome, nucleoid, endospore c. Reserve Food material <u>Practicals</u> - As per syllabus	—


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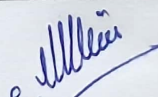
Vivekanand College (Autonomous),
Department Of Microbiology
Syllabus completion report 2018-2019

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> I. Immunity II. Non-specific defense mechanism III. Antigens IV. Antibodies V. Theories of antibody production VI. Immune response VII. Types of immune response VIII. Mechanism of Ag-Ab reactions IX. Types of Ag-Ab reactions X. 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> I. Immunity II. Non-specific defense mechanism III. Antigens IV. Antibodies V. Theories of Ab production VI. Immune response VII. Types of immune response VIII. Mechanism of Ag-Ab reactions IX. Types of Ag-Ab reactions X. Organs of immune system <u>Practicals - As per syllabus</u>	—


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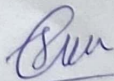

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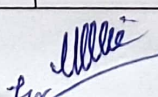
Vivekanand College (Autonomous),
Department Of Microbiology
Syllabus completion report 2018-2019

Name of Teacher - Mr. S.D. Gabale

Sr.No	Syllabus Allotted	Syllabus Completed	Remaining Syllabus
3.	<u>B. Sc. III Sem VI</u> <u>Paper VII Section II</u> I. UNIT - I II. UNIT - II III. UNIT - III IV. UNIT - IV <u>Practicals -</u> I. BOD II. COD III. Isolation of coliphages IV. One step growth expt.	<u>B. Sc. III Sem VI</u> <u>Paper VII Section II</u> I. UNIT - I II. UNIT - II III. UNIT - III IV. UNIT - IV <u>Practicals</u> I. BOD II. COD III. Isolation of coliphages IV. One step growth expt.	— —


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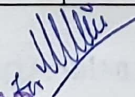
Vivekanand College (Autonomous),
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Syllabus completion report 2018-2019

Name of Teacher - Ms. R. R. Suryawanshi

Sr.No	Syllabus Allotted	Syllabus Completed	Remaining Syllabus
	B.Sc. I Sem II Section II Unit III	Section II Unit III	
1.	Water microbiology a) Sources of microorganisms in water. b) Fecal pollution of water. c) Indicators of Fecal Pollution. d) Routine Bacteriological analysis of water.	1 Water microbiology a) Sources of microorganisms in water. b) Fecal pollution of water. c) Indicators of fecal pollution d) Routine. Bacteriological analysis of water.	Nil
2.	Milk microbiology a. General composition of Milk b. sources of contamination of milk. c. Microbiological examination of milk d. Spoilage of milk. Practicals. As per syllabus.	2. Milk microbiology. a) General composition of Milk b) Sources of contamination of milk. c) Microbiological examination of milk. d) Spoilage of milk. Practicals. As per syllabus.	Nil
			Nil

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Vivekanand College (Autonomous),
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Name of Teacher - Ms. R.R. Suryawanshi

Sr.No	Syllabus Allotted	Syllabus Completed	Remaining Syllabus
-	B.Sc. II Sem IV		
1.	Forms of DNA	1. Forms of DNA.	Nil
2.	Basic Concepts.	2. Basic Concepts.	
3.	Genetic code	3. Genetic code.	
4.	Organization of chromosomal DNA in <u>E. coli</u> .	4. organization of chromosomal DNA in <u>E. coli</u>	
B.	Mutation-	B. Mutation-	
1.	Basic concept of mutation.	1. Basic concept of mutation.	Nil
2.	Spontaneous mutation.	2. Spontaneous mutation.	
3.	Induced Mutation.	3. Induced Mutation.	
	Practical	Practical	
	As per syllabus	As per syllabus.	Nil

Ms. R. R. Suryawanshi

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Name of Teacher - Ms. R. R. Suryawanshi

Sr.No	Syllabus Allotted	Syllabus Completed	Remaining Syllabus
	B.Sc. III Sem VI		
1.	General characteristics of Waste	1. General characteristics of Waste	Nil
2.	Sewage Microbiology	2. Sewage Microbiology	
3.	Characteristics and treatment of Waste.	3. Characteristics & treatment of waste.	
4.	Eutrophication.	4. Eutrophication.	Nil
	1. Biological safety in laboratory	1. Biological safety in laboratory	
	2. Environmental Monitoring	2. Environmental Monitoring	
	3. EIA	3. EIA.	
	Practical - Determination of BOD, COD	Practical - Determination of BOD, COD	Nil
	Isolation of Lactic acid bacteria	Isolation of Lactic acid bacteria	Nil

Ms. R. R. Suryawanshi 
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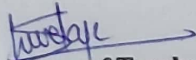


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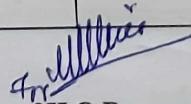
Vivekanand College Kolhapur (Autonomous),
Department Of Microbiology
Syllabus completion report 2018-2019

Name of the teacher: S.A. Pise.

Sr.No	Syllabus Allotted	Syllabus Completed	Remaining Syllabus
2.	B.Sc. II Sem IV Medical Microbiology 1. Definitions. 2. Virulence Factor 3. Types of disease 4. Types of infections. 5. Mode of transmission of disease. 6. General principles of prevention & Control of disease 7. Normal flora of human body & its significance. # <u>Practicals</u>:- As per syllabus.	B.Sc. II Sem IV Medical microbiology 1. Definition 2. Virulence factor 3. Types of disease 4. Types of infections. 5. Modes of Transmission of disease 6. General principle of prevention & control of disease. 7. Normal flora of human body & its significance. # Practicals: — As per syllabus.	Nil Nil


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VIVEKANAND COLLEGE, KOLHAPUR
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Vivekanand College Kolhapur (Autonomous),
Department Of Microbiology
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Name of the teacher: S.A. Pise

Sr.No	Syllabus Allotted	Syllabus Completed	Remaining Syllabus
3.	B.Sc. III sem VI Microbial biochemistry <u>Unit I</u> Unit II B.Sc. III <u>Practicals</u> . 1. Estimation of Ca, mg content of soil. 2. Estimation of organic carbon content of soil.	B.Sc. III sem VI Microbial biochemistry Unit I Unit II B.Sc. III <u>Practicals</u> :- 1. Estimation of Ca, mg content of soil. 2. Estimation of organic carbon content of soil	Nil Nil

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