

Vivekanand College (Autonomous),
 Department Of Microbiology
 Syllabus completion report 2020-2021

Name of Teacher - Mr. S. D. Gababe

Sr.No	Syllabus Allotted	Syllabus Completed	Remaining Syllabus
#.	<u>Semester - I</u>	<u>Semester - I</u>	"
1.	<u>B.Sc. I</u> Paper - I, Section - I <u>UNJT - I</u> i. History and milestones in Microbio. ii. Spontaneous generation Vs. biogenesis iii. Beneficial and harmful activities of Microorganisms. iv. Classification of organisms v. Scope of Microbiology vi. Bacterial systematics. <u>Practicals - As per syllabus</u>	<u>B. Sc. I</u> Paper - I, Section I <u>UNJT - I</u> i. History and milestones in Micro. ii. Spontaneous genera ⁿ Vs. biogenesis iii. Beneficial and harmful activities of Microorganisms. iv. Classification of organisms v. Scope of Microbiology vi. Bacterial systematics <u>Practicals - As per syllabus</u>	-

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 2020-2021

Name of Teacher - Mr. S. D. Gabale

2020-2021

Sr.No	Syllabus Allotted	Syllabus Completed	Remaining Syllabus
2.	B.Sc. III Sem III Paper IV Section I <u>UNIT - II - Microbial metabolism</u> a. Catabolism of Glucose b. Substrate level phosphoryla ⁿ c. Respiratory ETC <u>Practicals -</u> - As per syllabus.	B.Sc II Sem III Paper IV Section I <u>UNIT - II - Microbial metabolism</u> a. Catabolism of Glucose b. Substrate level phosphoryla ⁿ c. Respiratory ETC <u>Practicals -</u> - As per syllabus	-

S. D. Gabale

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Vivekanand College (Autonomous),
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Name of Teacher - Mr. S.D. Gobale

2020-2021

Sr.No	Syllabus Allotted	Syllabus Completed	Remaining Syllabus
3.	<u>B.Sc-III Sem V</u> Paper V Section II <u>Medical Microbiology</u> UNIT - I UNIT - II UNIT - III UNIT - IV <u>Practicals -</u> a. Isolation of streptomycin resistant mutants b. Isolation of auxotrophic mutants c. BOD d. COD e. DNA isolation f. Agarose gel electrophoresis.	<u>B.Sc. III Sem V</u> Paper V Section II <u>Medical Microbiology</u> UNIT - I UNIT - II UNIT - III UNIT - IV <u>Practicals</u> a. Isolation of streptomycin resistant mutants b. Isolation of auxotrophic mutants c. BOD d. COD e. DNA isolation f. Agarose gel electrophoresis.	— —

S.D. Gobale

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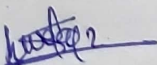


Dr. M. M. M. M.
 HEAD
 DEPARTMENT OF MICROBIOLOGY
 VIVEKANAND COLLEGE, KOLHAPUR
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**Vivekanand College Kolhapur (Autonomous),
Department Of Microbiology
Syllabus completion report 2020-21**

Name of the teacher: S. A. Pise

Sr.No	Syllabus Allotted	Syllabus Completed	Remaining Syllabus
1.	<p><u>B.Sc. I Sem I.</u></p> <ol style="list-style-type: none"> Types of Microorganism. Structure of prokaryotic & eukaryotic organisms. cell Difference between prokaryotic & eukaryotic organism. Control of microorganisms. <p># <u>Practicals</u> :- As per syllabus.</p>	<p><u>B.Sc. I Sem I</u></p> <ol style="list-style-type: none"> Types of microorganisms Structure of prokaryotic & eukaryotic cell. Difference between prokaryotic & eukaryotic organism. Control of microorganism. <p># <u>Practicals</u> :- As per syllabus.</p>	Nil
2	<p><u>B.Sc. II Sem III</u></p> <ol style="list-style-type: none"> Air microbiology. Food microbiology. Biostatistics. Bioinformatics. <p># <u>Practicals</u> :- As per syllabus.</p>	<p><u>B.Sc. II Sem III</u></p> <ol style="list-style-type: none"> Air microbiology. Food microbiology. Biostatistics. Bioinformatics. <p># <u>Practicals</u> :- As per syllabus</p>	Nil


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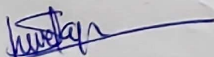



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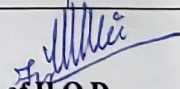
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Department Of Microbiology
Syllabus completion report 2020-20 2f.

Name of the teacher: S.A. Pise.

Sr.No	Syllabus Allotted	Syllabus Completed	Remaining Syllabus
3.	B.Sc. III Sem V Unit I Unit II Thi <u>Practicals :-</u> 1. Isolation of PSB 2. Isolation of <u>Azotobacter</u> 3. Isolation of <u>Rhizobium</u>	B.Sc. III Sem V Unit I Unit II <u>Practicals :-</u> 1. Isolation of PSB 2. Isolation of <u>Azotobacter</u> 3. Isolation of <u>Rhizobium</u>	Nil Nil.


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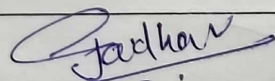



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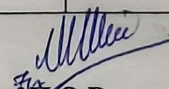
Vivekanand College Kolhapur (Autonomous),
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Name of the teacher: Miss. S.V. Jadhav

Sr.No	Syllabus Allotted	Syllabus Completed	Remaining Syllabus
	B.Sc. I Sem I - # <u>THEORY</u> .	B.Sc. I - Sem I - # <u>THEORY</u>	
1.	Microbial Nutrition A) Nutritional requirements of mo's; B) Nutritional types of mo based on carbon & energy sources.	1. Microbial Nutrition A) Nutritional requirements of mo's. B) Nutritional types of mo based on carbon & energy sources.	- Nil -
2.	Culture media Functional types of culture media	2. Culture media Functional types of culture media.	- Nil -
3.	Cultivation of mo's. # <u>PRACTICALS</u> As per syllabus.	3. Cultivation of mo's. # <u>PRACTICALS</u> As per syllabus.	- Nil -


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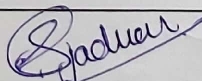



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Vivekanand College Kolhapur (Autonomous),
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Name of the teacher: Miss. S.V. Jadhav.

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


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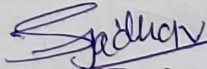



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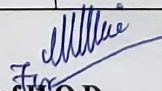
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Name of the teacher: Miss. S.V. Jadhav.

Sr.No	Syllabus Allotted	Syllabus Completed	Remaining Syllabus
	<p>B.Sc. <u>III</u> - Sem <u>V</u></p> <p># <u>THEORY</u></p> <p>Industrial microbiology & microbial biochemistry.</p> <p>Unit Section I Unit I - 1. Food microbiology</p> <p>Section <u>II</u> - Unit I - 1. Industrial Microbiology.</p> <p>Section I - Unit II - Industrial Production of - a) Amylase b) Grape wine c) Penicillin. d) Citric Acid.</p> <p>2. Microbial Production of a) Vit. B12. b) Amino acid lysine.</p> <p>3. Probiotics.</p> <p>4. Downstream processing & product recovery.</p>	<p># <u>THEORY</u></p> <p>Industrial microbiology & microbial biochemistry</p> <p>Section I - Unit I - 1) Food Microbiology.</p> <p>Section <u>II</u> - unit I - 1) Industrial Microbiology</p> <p>Section I - Unit II Industrial Production of - a) Amylase b) Grape wine c) Penicillin. d) Citric acid</p> <p>2. Microbial production of a) Vit. B12 b) Amino acid lysine</p> <p>3. Probiotics.</p> <p>4. Downstream processing & product recovery.</p>	<p>— Nil —</p> <p>— Nil —</p> <p>— Nil —</p> <p>— Nil —</p> <p>— Nil —</p> <p>— Nil —</p> <p>— Nil —</p>


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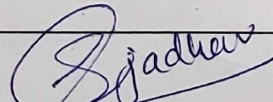



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Sr.No	Syllabus Allotted	Syllabus Completed	Remaining Syllabus
5.	Testing of sterility, pyrogen, Carcinogenicity, toxicity & allergens. <u># Practicals</u> 1. Estimation of amylase by DNSA method. 2. Citric Acid Production 3. Sauerkraut Production.	Testing of sterility, pyrogen, carcinogenicity, toxicity & allergens. <u># Practicals</u> 1. Estimation of amylase by DNSA method. 2. Citric Acid Production 3. Sauerkraut Production	- Nil - - Nil - - Nil -


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Name of Teacher - Mr. S.D. Gabale

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1.	<u>B.Sc. I Sem II</u> <u>Paper III Section I</u> <u>UNIT - I</u> 1. <u>Bacterial cell organization</u> a. Cell size, shape & arrangement b. Cell wall, cell membrane, capsule, flagella, pili, ribosome, Mesosome, Endospore, Nucleoid. 2. Reserve Food materia. # <u>Practicals</u> As per syllabus	<u>B.Sc. I Sem II</u> <u>Paper III Section I</u> <u>UNIT - I</u> 1. <u>Bacterial cell organization</u> a. Cell size, shape & arrangement b. Cell wall, cell membrane, capsule, flagella, Pili, ribosome Mesosome, Endospore, Nucleoid 2. Reserve Food materia) # <u>Practicals</u> As per syllabus	—

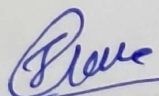

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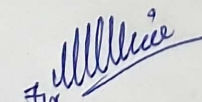

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Sr.No	Syllabus Allotted	Syllabus Completed	Remaining Syllabus
2.	<p><u>B.Sc. II Sem IV</u> <u>Paper VIII Section II</u> <u>UNIT II Immunology</u></p> <ol style="list-style-type: none"> 1. Immunity 2. Non-specific defense mechanism 3. Antigens 4. Antibodies 5. Immune response 6. Theories of Ab production 7. Mechanism of Ag-Ab reactions 8. Types of Ag-Ab reactions. 9. Types of immune response. 10. Organs of immune system <p>Practicals - As per syllabus.</p>	<p><u>B.Sc II Sem IV</u> <u>Paper VIII Section II</u> <u>UNIT II - Immunology</u></p> <ol style="list-style-type: none"> 1. Immunity 2. Non-specific defense mecha. 3. Antigens 4. Antibodies 5. Immune response 6. Theories of Ab production 7. Mechanism of Ag-Ab reactions 8. Types of Ag-Ab reactions 9. Types of immune response 10. Organs of immune system <p>Practicals - As per syllabus.</p>	<p>—</p> <p>—</p>



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Name of Teacher - Suraj D. Gabale

Sr.No	Syllabus Allotted	Syllabus Completed	Remaining Syllabus
	<u>B.Sc. III Sem VI</u> Paper VII - Section II Virology UNIT - I UNIT - II UNIT - III UNIT - IV <u>Practicals -</u> 1. One step growth experiment 2. Isolation of coliphages	<u>B.Sc. III Sem VI</u> Paper VII - Section II Virology UNIT - I UNIT - II UNIT - III UNIT - IV <u>Practicals -</u> 1. One step growth experiment. 2. Isolation of coliphages	- -


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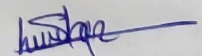


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Name of the teacher: S. A. Pise.

Sr.No	Syllabus Allotted	Syllabus Completed	Remaining Syllabus
1.	<p>B.Sc I Sem II</p> <ol style="list-style-type: none"> 1. Enrichment & isolation of microorganisms from natural environment. 2. Preservation of microbial culture 3. Systematic study of pure culture 4. concept culture collection centre. 	<p>1. B.Sc. I Sem II</p> <ol style="list-style-type: none"> 1. Enrichment & Isolation of microorganisms from natural environment. 2. preservation of microbial culture 3. Systematic study of pure culture. 4. concept culture collection centre. 	Nil
2.	<p><u>Practicals.</u></p> <p>1. Definition. As per syllabus.</p> <p><u>B.Sc. II Sem V</u></p> <ol style="list-style-type: none"> 1. Definition. 2. Types of disease, infection, mode of transmission of disease. 3. General principle of prevention & control. 	<p><u>Practicals</u> :-</p> <p>As per syllabus ..</p> <p><u>B.Sc. II Sem V</u></p> <ol style="list-style-type: none"> 1. Definition. 2. Types of disease, infection, mode of transmission of disease. 3. General principle of prevention & control 	Nil


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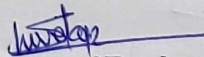



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Name of the teacher: S.A. Pise,

Sr.No	Syllabus Allotted	Syllabus Completed	Remaining Syllabus
	<p><u>Practical</u> As per syllabus -</p>	<p><u>Practical :-</u> As per syllabus.</p>	<p>Nil.</p>
3)	<p>B.Sc. III Sem VI</p> <p>1. Unit I 2. Unit II</p> <p><u>Practicals.</u></p> <p>1. Isolation of <u>Xantho</u> 2. Estimation of Ca, mg. 3. Estimation of organic carbon</p>	<p>3) B.Sc. III Sem VI</p> <p>1. Unit I 2. Unit II</p> <p><u>Practicals :-</u></p> <p>1. Isolation of xantho. 2. Estimation of Ca mg. 3. Estimation of organic carbon</p>	<p>Nil</p> <p>Nil</p>


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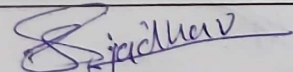



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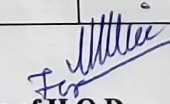
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Name of the teacher: Miss. S.V. Jadhav

Sr.No	Syllabus Allotted	Syllabus Completed	Remaining Syllabus
	<p>B.Sc. I Sem II</p> <p># <u>THEORY</u></p> <p>Section II - Unit III -</p> <p>1. Water microbiology</p> <p>a) Sources of mds in water</p> <p>b) Fecal pollution of water</p> <p>Section II - Unit III -</p> <p>c) Indicators of fecal pollution</p> <p>d) Routine bacteriological analysis of water.</p> <p>2. Milk Microbiology</p> <p>a) General composition of milk</p> <p>b) Sources of contamination in milk.</p> <p>c) Microbiological examination of milk.</p> <p>d) Spoilage of milk.</p>	<p># <u>THEORY</u></p> <p>Section II - Unit III -</p> <p>1. Water Microbiology</p> <p>a) Sources of mds in water</p> <p>b) Fecal pollution of water.</p> <p>Section II - Unit III -</p> <p>c) Indicators of fecal pollution</p> <p>d) Routine bacteriological analysis of water.</p> <p>2. Milk Microbiology</p> <p>a) General composition of milk.</p> <p>b) Sources of contamination in milk.</p> <p>c) Microbiological examination of milk.</p> <p>d) Spoilage of milk.</p>	<p>— Nil —</p> <p>— Nil —</p> <p>— Nil —</p> <p>— Nil —</p>

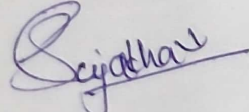

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Name of the teacher: Miss. S.V. Jadhav.

Sr.No	Syllabus Allotted	Syllabus Completed	Remaining Syllabus
	<p><u>B.Sc. III - Sem VI -</u> <u>THEORY</u> Agricultural & Environmental microbiology.</p> <ol style="list-style-type: none"> 1. General characteristics of waste. 2. Sewage Microbiology 3. Characteristics & treatment of waste. 4. Eutrophication. <ol style="list-style-type: none"> 1. Biological safety in laboratory 2. Environmental monitoring. 3. Environmental impact Assessment. <p># <u>Practicals</u> As per syllabus.</p>	<p><u>THEORY</u> Agricultural & Environmental microbiology.</p> <ol style="list-style-type: none"> 1. General characteristics of waste. 2. Sewage Microbiology. 3. Characteristics & treatment of waste. 4. Eutrophication. <ol style="list-style-type: none"> 1. Biological safety in laboratory 2. Environmental monitoring. 3. Environmental impact Assessment. <p># <u>Practicals</u> As per syllabus</p>	<p>— Nil —</p> <p>— Nil —</p> <p>— Nil —</p> <p>— Nil —</p> <p>— Nil —</p>


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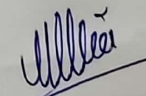
Name of Teacher - Misal Vrushali Vishwasrao

Sr.No	Syllabus Allotted	Syllabus Completed	Remaining Syllabus
	B.sc.I SemI Paper II General Principles of Microscopy. Unit 1: 1. Types of Microscope B.sc.II Sem 2. stain & staining techniques Practical: 1. Introduction to Microscope 2. Monochrome staining 3. Gram's staining 4. capsule staining	B.sc.I, SemI Paper II General Principles of Microscopy, Unit : 1 1. Types of Microscope 2. stain and staining techniques Practical 1. Introduction to microscope 2. Monochrome staining 3. Gram's staining 4. Capsule staining	—

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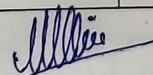


Name of the teacher: Ms. V. V. Misal.

Sr.No	Syllabus Allotted	Syllabus Completed	Remaining Syllabus
	Bsc. II sem III Paper IV : Industrial Microbiology A. Basic concepts of fermentation B. Fermentation media C. Factors affecting fermentation Practicals : ① Phenyl alanine deamination test ② Lecithinase test ③ Gelatinase test ④ Micrometry	B.sc. II sem III Paper IV : Industrial Microbiology A. Basic concepts of fermentation B. Fermentation media C. Factors affecting fermentation ① Phenyl alanine deamination test ② Lecithinase test ③ Gelatinase test ④ Micrometry.	Nil

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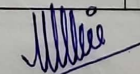
Name of the teacher: Misal V.V.

Sr.No	Syllabus Allotted	Syllabus Completed	Remaining Syllabus
	<p>B.Sc. III sem V</p> <p>Paper IX: Immunology and Medical Microbiology Sec I</p> <p>Unit I: to</p> <p>Cells of Immune system Membrane receptor for antigen</p> <p>Unit II: Molecular Mechanism of antibody production Monoclonal Antibodies.</p> <p>Unit III cytokines Immunological tolerance</p>	<p>B.Sc. III sem V</p> <p>Paper IX: Immunology and Medical Microbiology sec I</p> <p>Unit I: cells of Immune system Membrane receptor for antigen.</p> <p>Unit II: Molecular Mechanism of antibody production Monoclonal Antibodies</p> <p>Unit III Cytokines Immunological tolerance.</p>	<p>—</p> <p>—</p>

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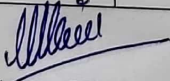


Name of the teacher: Ms. V. V. Misal.

Sr.No	Syllabus Allotted	Syllabus Completed	Remaining Syllabus
	Unit IV New Diagnostic techniques Hypersensitivity. Unit Practical: Hb content Urine analysis Antibiotic sensitivity. Differential count.	Unit IV New Diagnostic techniques Hypersensitivity. Practical: Hb content Urine analysis antibiotic sensitivity. Differential	—

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 Signature of H.O.D

Vivekanand College-Kolhapur (Autonomous),
 Department Of Microbiology
 Syllabus completion report 2020-21

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

Sr.No	Syllabus Allotted	Syllabus Completed	Remaining Syllabus
2.	B.Sc.II sem IV Microbial Genetics, Molecular Biology Basics in Medical Microbiology & Immunology. Sec II Unit II: Genetransfer in bacteria. Fate of exogenote in recipient Transformation Conjugation Transduction. Plasmids DNA repair Practical: WIDAL test Spore staining Blood group detection	B.Sc.II sem IV Microbial Genetics, Molecular Biology, Basics in Medical Microbiology & Immunology Sec II Unit II Gene transfer in bacteria Fate of exogenote in recipient. Transformation Conjugation Transduction Plasmids DNA repair. Practical: Widal test spore staining Blood group detection.	

Signature of Teacher

Ms. V. V. Misal



Signature of H.O.D

Ms. V. V. Misal

Vivekanand College Kolhapur (Autonomous),
 Department Of Microbiology
 Syllabus completion report 2020-2021

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

Sr.No	Syllabus Allotted	Syllabus Completed	Remaining Syllabus
1	Bsc. I ; sem II ; Bacteriology and Applied Microbiology. Unit I : Proteins carbohydrates Lipids Enzymes Nucleic acids Practical - MBRT IMVic test SPC of milk	B.sc. I , sem II Bacteriology and Applied Microbiology. Unit I : Proteins carbohydrates Lipids Enzymes Nucleic acids Practical - MBRT IMVic test SPC of milk	—

Signature of Teacher

(Handwritten Signature)
 (Misal V. V.)



Signature of H.O.D

(Handwritten Signature)

