

# VIVEKANAND COLLEGE, KOLHAPUR.

## STATEMENT OF SYLLABUS COVERED

Year : 2023 - 2024

Term : I<sup>st</sup> / II<sup>nd</sup>

Name of the Teacher : Miss. V. B. Kanekar

Department : Biotechnology (Entre)

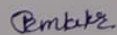
Class	Subject	Syllabus Assigned	Syllabus Covered	Syllabus Not to Covered	Remarks
B.Sc. - I Biotech (Entire)	DECO7BTE11 Bio- Instrumentation I	Unit - I - Methods of cell disruption		-	
Sem - I		- centrifugation - Basic laboratory instruments.	All covered		
		Unit - II - Microscopy - Principle - Types of microscopes - colorimeter - UV - visible spectrophotometer	All covered	-	

Class	Subject	Syllabus Assigned	Syllabus Covered	Syllabus Not to Covered	Remarks
B.Sc. - II	DSC-1346-C	- Atomic Absorption spectroscopy	-		
Biotech (Entire)	Biophysics 5	- NMR			
Sem - III	Enzymology	- X-ray crystallography	All covered	-	
		- ESR			
		- IR spectroscopy			
		- Unit - II			
		- factors affecting enzyme activity	All covered	-	
		- Allosteric enzymes			
		- Immobilization of enzymes			
		- Biosensors			



(Signature of the Head of Dept.)

DEPARTMENT OF BIOTECHNOLOGY (ENTIRE)  
 JYOTIBAI PHULE COLLEGE, KOLHAPUR  
 (EMPOWERED AUTONOMOUS)



(Signature of the Teacher)  
 C. MISC. V. B. KANKELCAR

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## STATEMENT OF SYLLABUS COVERED

Year : 2023 - 2024

Term : I<sup>st</sup> / II<sup>nd</sup>

Name of the Teacher : Ms. Jasmine J. Gavandi

Department : Bio technology (Ent)

Class	Subject	Syllabus Assigned	Syllabus Covered	Syllabus Not to Covered	Remarks
B.Sc II Botech (Ent) sem III	Plant Tissue Culture DSE-1354E	Unit I :- Bioethics Regulatory bodies for Bioethics in India.	All covered	—	
		Unit II :- Intellectual Property Rights Significance of IPR in Biotechnology	All covered	—	

  
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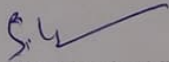
Term : I<sup>st</sup> / II<sup>nd</sup>

Name of the Teacher : Mrs. Srushti S. Patil

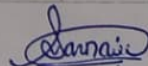
Department : Biotech (Entire)

Class	Subject	Syllabus Assigned	Syllabus Covered	Syllabus Not to Covered	Remarks
B.Sc III	Industrial Biotechnology	Unit I Introduction to industrial biotechnology, microbial screening, scale up,	All covered	-	
		Unit II Fermentation media, Downstream process and product Recovery	All covered	-	
		06 Practicals	All covered.		

Class	Subject	Syllabus Assigned	Syllabus Covered	Syllabus Not to Covered	Remarks
B.sc I	Techniques in microbiology	Unit I Concept of sterilization, methods of sterilization, efficiencies.	All covered	-	
		Unit II Microscopy, stains and staining procedures.	All covered	-	
		06 Practicals	All covered	-	



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(Mrs. Srushti S. Patil)  
 (Signature of the Teacher)

# VIVEKANAND COLLEGE, KOLHAPUR.

## STATEMENT OF SYLLABUS COVERED

Year : 20 - 20

Term : I<sup>st</sup> / II<sup>nd</sup>

Name of the Teacher : Ms. Jasmine J. Gavandi

Department : Biotechnology (Ent)

Class	Subject	Syllabus Assigned	Syllabus Covered	Syllabus Not to Covered	Remarks
B.Sc II Biotech (Ent) Sem III	Plant Tissue Culture DSC-1350-C	Unit I :- Introduction to PTC, Culture Media, Callus Culture	AU covered.		
		Unit II :- Anther & Pollen Culture, Somaclonal variation Plant Protoplast Culture	AU covered		
	Practical	05	AU covered		

Class	Subject	Syllabus Assigned	Syllabus Covered	Syllabus Not to Covered	Remarks
B.Sc III Bio Tech (Ent) Sem V	Bio-safety, Bioethics and Intellectual Property	Unit I:- Bioethics, Regulatory bodies for Bioethics in India	All - covered	—	
	DSE-1384E	Unit II:- Intellectual Property Rights, Significance of IPR in Biotechnology	All covered	—	

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DEPARTMENT OF BIOTECHNOLOGY (ENTIRE)  
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MS. J. J. Govardho  
(Signature of the Teacher)

# VIVEKANAND COLLEGE, KOLHAPUR.

## STATEMENT OF SYLLABUS COVERED

Year : 2023 - 2024 .

Term : I<sup>st</sup> / II<sup>nd</sup>

Name of the Teacher : Miss. Rajeshwari . M . Shetty .


Department : Biotechnology ( Entire )

Class	Subject	Syllabus Assigned	Syllabus Covered	Syllabus Not to Covered	Remarks
B.Sc-III	Application of Biotechnology in Agriculture	unit I :- Methods of crop Improvement, plant Breeding markers.	All covered.	-	
		unit -II Germplasm conservation Transgenic plants.	All covered.	-	
		06 practicals.	All covered	-	


*Rshetty*  
Miss. Rajeshwari . M . Shetty .



Class	Subject	Syllabus Assigned	Syllabus Covered	Syllabus Not to Covered	Remarks
B.Sc-II	Genetics.	unit :- I. Mendel's law of Inheritance .	All covered.	-	
		unit :- II Crossing over Structural and Numerical changes in chromosomes :-	All covered.	-	
		07 practicals .	All covered .	-	

  
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 (Signature of the Teacher)  
 Miss . Rajeshwari . Mahesh . Shetty .

# VIVEKANAND COLLEGE, KOLHAPUR.

## STATEMENT OF SYLLABUS COVERED

Year : 2023 - 2024

Term : I<sup>st</sup> / II<sup>nd</sup>

Name of the Teacher : Miss. V. N. Arekar

Department : Biotechnology (Entire)

Class	Subject	Syllabus Assigned	Syllabus Covered	Syllabus Not to Covered	Remarks
B.Sc I Sem-I	Biotechnology I Biotechnology for Human Welfare - I	Unit I - Introduction to Biotechnology, Biofertilizers, Biopesticides Unit II - Health Biotechnology - Gene Therapy, Vaccines, stem cells. Forensic science.	All covered		
	Practicals	Total - 8	3 covered		
B.Sc II Sem III	Ecology	Unit I - Ecosystem, Productivity, Food chain, Biogeochemical cycle, Concept - Habitat & Niche Unit II - Population ecology, Evolution - Theories, Hardy-Weinberg law & equation.	All covered		

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*V.N. Arekar*  
(Miss. V. N. Arekar)