

VIVEKANAND COLLEGE, KOLHAPUR. (Empowered Autonomous)

STATEMENT OF SYLLABUS COVERED

Year : 2023-20 24

Term : Ist / IInd

Name of the Teacher : Ms. S. B. Mulla

Department : Biotechnology

Class	Subject	Syllabus Assigned	Syllabus Covered	Syllabus Not to Covered	Remarks
B.Sc. I	Biotechnology Sem I Fundamentals of Biotec I	Paper I -			
		1) Biotechnology	Biotechnology	} all covered	
		2) Carbohydrate	carbohydrate		
		3) Lipid	Lipid		
4) Protein.	protein				
B.Sc. I	Fundamentals of Biotec II	Paper II			
		1) cell disruption.	All topics	} all covered	
		2) centrifuge	cell disruption, centrifuge		
3) spectroscopy	spectroscopy				
		All assign practicals of Biochemistry	1) All assigned practicals are completed.		
B.Sc II	Sem III Enzyme technology	Unit I			
		1) Basics of enzymology.	All assigned practical & theory practical are completed.		
		2) Appl ⁿ , Immobilization			

Class	Subject	Syllabus Assigned	Syllabus Covered	Syllabus Not to Covered	Remarks
B.Sc. III	Sem V Large scale manufn process	Part I ① Down stream processing ② Part II patent ③ copyright, trademark, trade secrets - Practical-related to this syllabus. Project	Down-stream processing is completed. ② patent & content related to IPR are completed. copyright, trade mark, Trade secrets are complete		
			Incomplete	Half part of Project remaining	

(Signature of the Head of Dept.)

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STATEMENT OF SYLLABUS COVERED

Year : 2023-2024 Term : Ist / IInd

Name of the Teacher : Miss. Supriya Dinanath Potdar Department : Biotechnology

Class	Subject	Syllabus Assigned	Syllabus Covered	Syllabus Not to Covered	Remarks
B.Sc II	Biotechnology Section II- Molecular Biology	Paper - 1) Historical background 2) DNA replication 3) Transcription 4) Translation 5) DNA damage & Repair	Historical background Replication Transcription Translation Repair mechanism		All covered
B.Sc III	Biotechnology Section F Plant Biotechnology	1) PTC scope application 2) Historical Background 3) Culture media 4) Aseptic techniques 5) Callus Culture 6) Embryogenesis & Organogenesis	Scope Applications Media Techniques Culture Embryogenesis Organogenesis		All covered
		All assigned practicals of PTC	All assigned practicals are completed		



Class	Subject	Syllabus Assigned	Syllabus Covered	Syllabus Not to Covered	Remarks
B.Sc III	Biotechnology	Historical Background	History		
	Section II	Requizelements	Requizelements		
	Animal	Sterilization	Sterilization		
	Tissue	Media	Media		
	Culture	Concepts	Concepts		
		Mammalian cell culture Techniques	Techniques		
		Organ Culture	Organ & Histotypic Culture		
		Histotypic Culture			
		All assigned practicals of ATC	All assigned practicals are incomplete		
		Project	Incomplete	Half part of project remaining	

All Covered

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STATEMENT OF SYLLABUS COVERED

Year : 2023-2024

Term : Ist / IInd

Name of the Teacher : Ms. Wajantel D. A.

Department : Biotechnology
(Optional)

Class	Subject	Syllabus Assigned	Syllabus Covered	Syllabus Not to Covered	Remarks
B.SCT	Biotechnology Theory Fundamentals of Biotech II	1) Sterilization 2) Microscopy	1) Sterilization 2) Microscopy } covered	-	
	Practical	All practicals related to microbiology	All practicals related to microbiology - All covered.	-	
B.Sc III	Section III Large scale manufacturing Practical Process	Credit I- fermentor, Sterilization, Components in fermentation media Preservation techniques	Credit I: All part is covered.	-	

Class	Subject	Syllabus Assigned	Syllabus Covered	Syllabus Not to Covered	Remarks
B.Sc III	Biotechnology	Credit I Types of fermentation. Large scale manufacturing processes. Section II - Large scale manufacturing Process.	Types of fermentation. Scale up. Use of Computer Qualitative & Quantitative assays. All covered. 1 ^o & 2 ^o metabolites Fermented food prod ⁿ , biomass Prod ⁿ . → All covered.	-	
		Credit II - Prod ⁿ of recombinant. fermentation economics, GM P, QA, QC, BSL.	Production of recombinant fermentation Economics GM P, QA, QC, BSL. → All syllabus covered	-	
	Practicals.	All practicals related microbiology.	All practicals are covered.	-	

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