

Vivekanand College Kolhapur (Autonomous) ①

Department of Biotechnology

Subject- Biotechnology optional

Annual Teaching Plan

Academic Year: 20-21 Semester: I, III, IV Department: - Biotechnology (Optional)

Subject: Biotechnology Course Title: -

Name of the teacher: Ms. Nadaf Salma Harun

Month ... Sept .....			Module/Unit:	Sub-units planned
Lectures	Practicals	Total	Paper I, Sem I - Credit I- Biotechnology -	Scope & Importance
6	4	10		
8	3	11	Paper III- Enzymology	- Credit 1/2
8	2	10	Paper IV - IPR - Bioprocess	
Month ..... Oct .....			Module/Unit:	Sub-units planned
Lectures	Practicals	Total	Paper I Sem I → Carbohydrate	Properties & Significance
8	4	12		
8	4	12	Paper II → Enzymology	Credit 1/2
12	2	14	→ Bioprocess.	← Credit III IPR
Month ..... Nov ..... Dec.			Module/Unit:	Sub-units planned
8	3	11	Paper I sem I - Lipid	classification, Properties
14	3	17	Paper III - Immobilization - Biosensors	Type and Application
6	4	10	Paper V - Inv. Biotech-	Type and application Non-conventional - conventional

*Ms. Nadaf*

Name and Signature of Teacher

Ms. Nadaf Salama Harun

*Ms. Nadaf*

Name and Signature of HoD

Ms. Nadaf Salama Harun

Head

Department of Biotechnology (Optional)  
Vivekanand College, Kolhapur (Autonomous)



Vivekanand College Kolhapur (Autonomous) ②

Department of Biotechnology  
Subject - Biotechnology (optional)

Annual Teaching Plan

Academic Year: 2020-21 Semester: II, III, VI Department: Biotechnology (Optional)

Subject: Biotechnology Course Title: .....

Name of the teacher: Ms. Nadaf Salama Harun

Month ..... Janum.....			Module/Unit:	Sub-units planned
Lectures	Practicals	Total	Sem II - cell biology - Basis of cell theory Sem IV - Immunology - Credit I Sem VI - cell metabolism - Credit I Genetics virology	
14	3	17		
10	3	13		
08	2	10		
Month ..... Feb. .... March.			Module/Unit:	Sub-units planned
Lectures	Practicals	Total	Sem II - Credit I - Sem IV - Immunology - Credit II Sem VI - Biochemical tech. - Credit II Sem VII - Cell metabolism - Credit II Genetics	
12	4	16		
11	4	15		
10	3	13		
Month ..... April.....			Module/Unit:	Sub-units planned
12	4	16	Sem IV - Serological test - Agglutination Sem VI - cell meta - vno - Credit II Sem VII - Biochemical - Credit I	
11	3	14		

*Ms. Nadaf*

Name and Signature of Teacher

Ms. Nadaf Salama Harun

*Ms. Nadaf*

Name and Signature of HoD

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Vivekanand College Kolhapur, Autonomous. ③

Department of Biotechnology

Subject- (Biotechnology optional)

Annual Teaching Plan

Academic Year: 2020-21 Semester: I, III, V Department: Biotechnology (opt.)

Subject: Biotech Course Title: Mol. Bio & PBT

Name of the teacher: Ms. M.D. Ulape Term: Dec - May

Month ..... Jan ..... Feb			Module/Unit:	Sub-units planned
Lectures	Practicals	Total	Sem I - Proteins & Amino acids, Intro str., classifica <sup>n</sup> (A.A.) III - Mol Bio, Intro, Replica <sup>n</sup> in Pro IV - PBT Intro, Lab, org.	
03	-	03		
05	02	07		
07	02	09		
Month ..... March			Module/Unit:	Sub-units planned
Lectures	Practicals	Total	I - Types (Proteins) & Intro III - Replica <sup>n</sup> in Eu, transcript <sup>n</sup> (Pro & Eu) IV - Steriliza <sup>n</sup> , media prepara <sup>n</sup> .	
02	-	02		
03	01	04		
08	02	10		
Month ..... April - May			Module/Unit:	Sub-units planned
Lectures	Practicals	Total	I - Structural levels of proteins Examples III - Transla <sup>n</sup> (Pro & Eu), DNA repair IV - Culture tech. & Applica <sup>ns</sup> .	
04	-	04		
07	01	08		
10	02	12		

*M.D. Ulape*

Name and Signature of Teacher

(Miss. M.D. Ulape)

Note: In the above format, for each month for each teacher.

*Nadaf*

Mr. Nadaf Salamu Homen  
Name and Signature of HOD

Head

Department of Biotechnology (Optional)  
Vivekanand College, Kolhapur (Autonomous)



Vivekanand College Kolhapur (Autonomous)  
 Department of Biotechnology (Optional)  
 Academic year - 2020-21

Annual Teaching Plan

Academic Year: 2020-21 Semester: II, III, IV Department: Biotechnology (Opt.)

Subject: ..... Course Title: G.E. & ATC

Name of the teacher: Ms. M.D. Ulape Term II - ~~Aug - Dec~~

Month ..... Aug - Sep			Module/Unit:	Sub-units planned
Lectures	Practicals	Total	Term II IV - G.E - Intro, Enzymes (5) VI - ATC - Intro, Lab org.	
05	01	06		
10	01	11		
Month ..... Oct			Module/Unit:	Sub-units planned
Lectures	Practicals	Total	IV - GE - Tools in G.E. (6) VI - ATC - Med. prepara <sup>n</sup> , steriliza <sup>n</sup>	
03	01	04		
07	02	09		
Month ..... Nov - Dec			Module/Unit:	Sub-units planned
Lectures	Practicals	Total	IV GE - Blotting tech (03) PCR Intro + Bioinformatics VI ATC - Culture tech Applica <sup>ns</sup>	
08	01	09		
08	0/04 (bioinfo)			

M. Ulape

Name and Signature of Teacher

(Miss M.D. Ulape)

Note: In the above format, for each month for each teacher.

Nadaf

Mr. Nadaf Salama Horun  
 Name and Signature of HOD

Head

Department of Biotechnology (Optional)  
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Vivekanand College Kolhapur  
 Department of Biotechnology (Optional) ③  
 - Academic year 2020-21

Annual Teaching Plan

Academic Year: ...2020-21..... Semester: I, III, IV.. Department: Biotech [OPT]

Subject: Biotechnology Course Title: Large scale manufacturing, Photometry, Translation

Name of the teacher: Ms. A. B. Ganmukh.....

Month ... <u>Aug</u> .....			Module/Unit:	Sub-units planned
Lectures	Practicals	Total		
3	01	04	sem - I	Basic concept - enzyme Translation (Prokaryotes, Eukaryotes) Fermentor, types, media
7	01	08	sem - III	
			sem - IV	
Month ... <u>Sept</u> .....			Module/Unit:	Sub-units planned
Lectures	Practicals	Total		
8	01	09	sem - I	zymogen, enzyme typ-4 DNA repair Specific fermentation
4	05	09	sem - III	
8	02	10	sem - IV	
Month ... <u>Oct-Nov</u> .....			Module/Unit:	Sub-units planned
13	-	13	sem - I	Photometry Operon model I, PR
3	01	04	sem - III	
6	3	09	sem - IV	

Ganmukh  
 Name and Signature of Teacher  
Ms. A. B. Ganmukh

Nadaf S H.  
 Name and Signature of HoD  
Miss. Nadaf S H.

**Head**  
 Department of Biotechnology (Optional)  
 Vivekanand College, Kolhapur (Autonomous)

Note: In the above format, for each month for each teacher.



Vivekanand College Kolhapur (Autonomous) ②

Department of Biotechnology

Subject - Biotechnology optional


Annual Teaching Plan

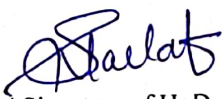
Academic Year: 2020-21 Semester: II, IV, VI Department: Biotechnology (Opt)

Subject: Biotechnology Course Title: Genbiotech, Bioinformatics, rDNA technology, microbiology

Name of the teacher: Ms. A. B. Sanmukh Des - May

Month <del>Jan</del> .....			Module/Unit:	Sub-units planned
Lectures	Practicals	Total		
12	01	13	Sem - II	History of microbiology
12	02	14	Sem - IV	Probes & Blotting techniques
10	02	12	Sem - VI	Drug Eng Exporting, Gene therapy
Month <del>Feb</del> .....			Module/Unit:	Sub-units planned
Lectures	Practicals	Total		
12	-	12	Sem - II	Morphology & cytology of bacteria
07	01	08	Sem - IV	DNA sequencing methods
09	01	10	Sem - VI	Antibiotic therapy, intro-Bioinformatics
Month <del>Apr</del> .....			Module/Unit:	Sub-units planned
Lectures	Practicals	Total		
10	02	12	Sem - II	Staining & staining procedure
11	01	11	Sem - IV	Screening of transformed cell
10	02	12	Sem - VI	Database, Human genome Project, Homology modelling

  
Name and Signature of Teacher  
Ms. A. B. Sanmukh

  
Name and Signature of HoD  
Ms. Madaf Salama Harun

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