

P.D.E.A.'s

Annasaheb Magar Mahavidyalaya, Hadapsar, Pune-28

Department of Microbiology (U.G.)

Date:- 20/12/2019



201

## Notice


### Certificate Course for Students of T.Y.B.Sc. (Microbiology)

Department of Microbiology has arranged a Certificate Course on "The Techniques in Immunology and Molecular Biology" from 1<sup>st</sup> January 2020 to 08<sup>th</sup> February 2020 of 30 lectures duration. The topics covered during course will be different from your regular syllabus. This will help you in pursuing service in diagnostic labs after graduation.

A certificate will be awarded to those students, who will complete the course successfully.

Interested students should enroll their names before 25<sup>th</sup> December 2019.

  
Time table Incharge

  
Head  
Department of Microbiology  
Annasaheb Magar Mahavidyalaya  
Hadapsar, Pune - 411028

  
Principal  
Annasaheb Magar Mahavidyalaya  
Hadapsar, Pune-411028

P.D.E.A.'s  
**Annasaheb Magar Mahavidyalaya, Hadapsar, Pune-28**  
**Department of Microbiology (U.G.)**

Date:- 20/12/2019

**Syllabus of Certificate Course**

SN	Title of Topic	No. of lecture/s required
1	Calibration of Instruments	01
2	Haemodialysis	01
3	Allergen testing	01
4	Immuno diffusion technique	01
5	Radio Immuno diffusion technique	01
6	Detectors in Diagnostics Test	
	d) Fluorescents	01
	e) Radio labelled	01
	f) Biotin avidin	01
7	Stem cells Biology	01
8	Elispot Assay	01
9	Detection of antigen in cells & tissues	01
10	Isolation of leucocytes sub population	01
11	Fluorescent cell sorter	01
12	Immuno histochemistry	01
13	DNA Array	01
14	DNA sequencing	01
15	Protein Array	01
16	PCR	01
17	Primer design	01
18	Plasmid mapping	01
19	Restriction enzymes	01
20	SDS PAGE	01
21	DNA Hybridization	01
22	r-RNA finger printing	01
23	Mutation detection	01
24	Blotting Techniques	01
25	Molecular diagnostics techniques	01
26	Molecular Biology in forensic science	01
27	Genotoxicity	01

**Prepared by:**

Dr. Patil N.N.  
 Mr. Deshpande M.V.  
 Dr. Khisti U.V.  
 Dr. Shinde S.R.  
 Ms Jagtap P.D.  
 Mrs. Sherkar S.D.  
 Mrs. Borade U.B.

**Approved by**

*(Signature)*  
*(Signature)*  
*(Signature)*  
*(Signature)*  
*(Signature)*  
Borade U.B.

*(Signature)*  
 for Head

**Department of Microbiology**  
**Annasaheb Magar Mahavidyalaya**

P.D.E.A.'s  
**Annasaheb Magar Mahavidyalaya, Hadapsar, Pune-28**  
**Department of Microbiology (U.G.)**

Date:- 20/12/2019

**Time Table of Certificate Course**

S.No.	Title of Topic	Name of the Speaker	Date	Timing
1	Calibration of Instruments	Dr.Khisti U.V.	01/01/2020	9.00am to 10.00am
2	Haemodialysis	Dr.Khisti U.V.	02/01/2020	4.30pm to 5.30pm
3	Allergen testing	Dr.Khisti U.V.	03/01/2020	4.30pm to 5.30pm
4	Immuno diffusion technique	Dr.Khisti U.V.	04/01/2020	4.30pm to 5.30pm
5	Radio Immuno diffusion technique	Dr.Shinde S.R.	06/01/2020	9.00am to 10.00am
6	Detectors in Diagnostics Test	Dr.Shinde S.R.	07/01/2020	9.00am to 10.00am
	a) Fluorescents	Dr.Shinde S.R.	08/01/2020	4.30pm to 5.30pm
	b) Radio labelled	Dr.Shinde S.R.	09/01/2020	4.30pm to 5.30pm
	c) Biotin avidin	Mr.Deshpande M.V.	10/01/2020	9.00am to 10.00am
7	Stem cells Biology	Mr.Deshpande M.V.	11/01/2020	9.00am to 10.00am
8	Elispot Assay	Mr.Deshpande M.V.	13/01/2020	9.00am to 10.00am
9	Detection of antigen in cells & tissues	Mr.Deshpande M.V.	14/01/2020	9.00am to 10.00am
10	Isolation of leucocytes sub population	Dr.Patil N.N.	16/01/2020	9.00am to 10.00am
11	Fluorescent cell sorter	Dr.Patil N.N.	17/01/2020	9.00am to 10.00am
12	Immuno histochemistry	Dr.Patil N.N.	20/01/2020	9.00am to 10.00am
13	DNA Array	Mrs.Sherkar S.D.	21/01/2020	9.00am to 10.00am
14	DNA sequencing	Mrs.Sherkar S.D.	22/01/2020	9.00am to 10.00am
15	Protein Array	Mrs.Sherkar S.D.	23/01/2020	9.00am to 10.00am
16	PCR	Mrs.Sherkar S.D.	24/01/2020	9.00am to 10.00am
17	Primer design	Mrs. Borade U.B.	25/01/2020	9.00am to 10.00am
18	Plasmid mapping	Dr.Patil N.N.	27/01/2020	9.00am to 10.00am
19	Restriction enzymes	Mrs. Borade U.B.	28/01/2020	4.30pm to 5.30pm
20	SDS PAGE	Mrs. Borade U.B.	29/01/2020	9.00am to 10.00am
21	DNA Hybridization	Mrs. Borade U.B.	30/01/2020	4.30pm to 5.30pm
22	r-RNA finger printing	Ms.Jagtap P.D.	01/02/2020	9.00am to 10.00am
23	Mutation detection	Mrs. Borade U.B.	03/02/2020	9.00am to 10.00am
24	Blotting Techniques	Ms.Jagtap P.D.	04/02/2020	9.00am to 10.00am
25	Molecular diagnostics techniques	Ms.Jagtap P.D.	05/02/2020	9.00am to 10.00am
26	Molecular Biology in forensic science	Ms.Jagtap P.D.	07/02/2020	9.00am to 10.00am
27	Genotoxicity	Ms.Jagtap P.D.	08/02/2020	9.00am to 10.00am

*Shinde S.R.*  
**Time table Incharge**  
 Department of Microbiology  
 Annasaheb Magar Mahavidyalaya  
 Hadapsar, Pune - 411028

*Principals*  
**Principal**  
 Annasaheb Magar Mahavidyalaya,  
 Hadapsar, Pune-411028.






**Certificate Course of Microbiology Department (Year 9-20)**  
**Title :- The Techniques in Immunology and Molecular Biology**

**Duration : 01/01/2020 to 04/02/2020**

SN	Student Name / Date >	01/01/20	02/01/20	03/01/20	04/01/20	05/01/20	06/01/20	07/01/20	08/01/20	09/01/20	10/01/20	11/01/20	12/01/20	13/01/20	14/01/20	15/01/20	16/01/20	17/01/20	18/01/20	19/01/20	
1	Borawake Prathamesh Maruti	BPM	BPM	BPM	BPM	BPM	BPM	BPM	BPM	BPM	BPM	BPM	BPM	BPM	BPM	BPM	BPM	BPM	BPM	BPM	BPM
2	Chinchkar Shambhavi Suresh	Shambhavi	Shambhavi	Shambhavi	Shambhavi	Shambhavi	Shambhavi	Shambhavi	Shambhavi	Shambhavi	Shambhavi	Shambhavi	Shambhavi	Shambhavi	Shambhavi	Shambhavi	Shambhavi	Shambhavi	Shambhavi	Shambhavi	Shambhavi
3	Devadhe Nikita Subhash	Devadhe	Devadhe	Devadhe	Devadhe	Devadhe	Devadhe	Devadhe	Devadhe	Devadhe	Devadhe	Devadhe	Devadhe	Devadhe	Devadhe	Devadhe	Devadhe	Devadhe	Devadhe	Devadhe	Devadhe
4	Dhumal Shreyash Rajendra	Dhumal	Dhumal	Dhumal	Dhumal	Dhumal	Dhumal	Dhumal	Dhumal	Dhumal	Dhumal	Dhumal	Dhumal	Dhumal	Dhumal	Dhumal	Dhumal	Dhumal	Dhumal	Dhumal	Dhumal
5	Gaikwad Manali Mahaveer	Manali	Manali	Manali	Manali	Manali	Manali	Manali	Manali	Manali	Manali	Manali	Manali	Manali	Manali	Manali	Manali	Manali	Manali	Manali	Manali
6	Ghule Rutuja Devidas	Ghule	Ghule	Ghule	Ghule	Ghule	Ghule	Ghule	Ghule	Ghule	Ghule	Ghule	Ghule	Ghule	Ghule	Ghule	Ghule	Ghule	Ghule	Ghule	Ghule
7	Jagdale Purva Mahadev	Purva	Purva	Purva	Purva	Purva	Purva	Purva	Purva	Purva	Purva	Purva	Purva	Purva	Purva	Purva	Purva	Purva	Purva	Purva	Purva
8	Kalbor Pratik Vaman	P.K.	P.K.	P.K.	P.K.	P.K.	P.K.	P.K.	P.K.	P.K.	P.K.	P.K.	P.K.	P.K.	P.K.	P.K.	P.K.	P.K.	P.K.	P.K.	P.K.
9	Kale Preeti Prakash	Kale	Kale	Kale	Kale	Kale	Kale	Kale	Kale	Kale	Kale	Kale	Kale	Kale	Kale	Kale	Kale	Kale	Kale	Kale	Kale
10	Kale Sahil Ramesh	Kale	Kale	Kale	Kale	Kale	Kale	Kale	Kale	Kale	Kale	Kale	Kale	Kale	Kale	Kale	Kale	Kale	Kale	Kale	Kale
11	Kamthe Pratik Dnyaneshwar	K.P.	K.P.	K.P.	K.P.	K.P.	K.P.	K.P.	K.P.	K.P.	K.P.	K.P.	K.P.	K.P.	K.P.	K.P.	K.P.	K.P.	K.P.	K.P.	K.P.
12	Karale Prajakta Prakash	Karale	Karale	Karale	Karale	Karale	Karale	Karale	Karale	Karale	Karale	Karale	Karale	Karale	Karale	Karale	Karale	Karale	Karale	Karale	Karale
13	Khade Sanket Bhausaheb	S.K.	S.K.	S.K.	S.K.	S.K.	S.K.	S.K.	S.K.	S.K.	S.K.	S.K.	S.K.	S.K.	S.K.	S.K.	S.K.	S.K.	S.K.	S.K.	S.K.
14	Khaladkar Karan Vitthal	K.K.	K.K.	K.K.	K.K.	K.K.	K.K.	K.K.	K.K.	K.K.	K.K.	K.K.	K.K.	K.K.	K.K.	K.K.	K.K.	K.K.	K.K.	K.K.	K.K.
15	Lende Snehal Balu	Lende	Lende	Lende	Lende	Lende	Lende	Lende	Lende	Lende	Lende	Lende	Lende	Lende	Lende	Lende	Lende	Lende	Lende	Lende	Lende
16	Mane Sunil Dashrath	Sunil	Sunil	Sunil	Sunil	Sunil	Sunil	Sunil	Sunil	Sunil	Sunil	Sunil	Sunil	Sunil	Sunil	Sunil	Sunil	Sunil	Sunil	Sunil	Sunil
17	Patil Avishkar Ramrao	A.P.	A.P.	A.P.	A.P.	A.P.	A.P.	A.P.	A.P.	A.P.	A.P.	A.P.	A.P.	A.P.	A.P.	A.P.	A.P.	A.P.	A.P.	A.P.	A.P.
18	Pawar Abhishek Ganesh	Pawar	Pawar	Pawar	Pawar	Pawar	Pawar	Pawar	Pawar	Pawar	Pawar	Pawar	Pawar	Pawar	Pawar	Pawar	Pawar	Pawar	Pawar	Pawar	Pawar
19	Pawar Apurwa Sindya Babu	Pawar	Pawar	Pawar	Pawar	Pawar	Pawar	Pawar	Pawar	Pawar	Pawar	Pawar	Pawar	Pawar	Pawar	Pawar	Pawar	Pawar	Pawar	Pawar	Pawar
20	Rakh Bhagyashree Madhav	Rakh	Rakh	Rakh	Rakh	Rakh	Rakh	Rakh	Rakh	Rakh	Rakh	Rakh	Rakh	Rakh	Rakh	Rakh	Rakh	Rakh	Rakh	Rakh	Rakh
21	Shavankar Akash Ankush	A.A.S.	A.A.S.	A.A.S.	A.A.S.	A.A.S.	A.A.S.	A.A.S.	A.A.S.	A.A.S.	A.A.S.	A.A.S.	A.A.S.	A.A.S.	A.A.S.	A.A.S.	A.A.S.	A.A.S.	A.A.S.	A.A.S.	A.A.S.
22	Sonawale Dhananjay Mahadeo	D.S.	D.S.	D.S.	D.S.	D.S.	D.S.	D.S.	D.S.	D.S.	D.S.	D.S.	D.S.	D.S.	D.S.	D.S.	D.S.	D.S.	D.S.	D.S.	D.S.
23	Tamhane Shirraj Sandip	Tamhane	Tamhane	Tamhane	Tamhane	Tamhane	Tamhane	Tamhane	Tamhane	Tamhane	Tamhane	Tamhane	Tamhane	Tamhane	Tamhane	Tamhane	Tamhane	Tamhane	Tamhane	Tamhane	Tamhane
24	Vetal Ashwini Lubhan	Vetal	Vetal	Vetal	Vetal	Vetal	Vetal	Vetal	Vetal	Vetal	Vetal	Vetal	Vetal	Vetal	Vetal	Vetal	Vetal	Vetal	Vetal	Vetal	Vetal
25	Waghmode Pradip Babu	W.P.B.	W.P.B.	W.P.B.	W.P.B.	W.P.B.	W.P.B.	W.P.B.	W.P.B.	W.P.B.	W.P.B.	W.P.B.	W.P.B.	W.P.B.	W.P.B.	W.P.B.	W.P.B.	W.P.B.	W.P.B.	W.P.B.	W.P.B.
<b>Name &amp; Sign of the Teacher</b>		Y.P.	Y.P.	Y.P.	Y.P.	Y.P.	Y.P.	Y.P.	Y.P.	Y.P.	Y.P.	Y.P.	Y.P.	Y.P.	Y.P.	Y.P.	Y.P.	Y.P.	Y.P.	Y.P.	Y.P.
		Kish U.V.	Kish U.V.	Kish U.V.	Kish U.V.	Kish U.V.	Kish U.V.	Kish U.V.	Kish U.V.	Kish U.V.	Kish U.V.	Kish U.V.	Kish U.V.	Kish U.V.	Kish U.V.	Kish U.V.	Kish U.V.	Kish U.V.	Kish U.V.	Kish U.V.	Kish U.V.
NNP - Dr. Patil Neha N.		S.D.S.																			
MVD - Mr. Deshpande Mangesh V.		U.B.B.																			
UVK - Dr. Khisti Ujwala V.		P.D.J.																			
SRS - Dr. Shinde Shishangi R.		S.R.																			

  
**Head**  
**Department of Microbiology**  
**Sanjay Bahadur Magar Mahavidyalaya**  
**Warananagar, Solapur - 431002**




# Certificate Course of Microbiology Department (Year 19-20)

## Title :- The Techniques in Immunology and Molecular Biology

Duration : 01/01/2020 to 04/02/2020

SN	Student Name / Date	22/10/20	29/10/20	05/11/20	12/11/20	19/11/20	26/11/20	03/12/20	10/12/20	17/12/20	24/12/20	31/12/20	07/01/21	14/01/21	21/01/21	28/01/21
1	Borawake Prathamesh Maruti	BPM	BPM	BPM	BPM	BPM	BPM	BPM	BPM	BPM	BPM	BPM	BPM	BPM	BPM	BPM
2	Chinchkar Shambhavi Suresh	BPM	BPM	BPM	BPM	BPM	BPM	BPM	BPM	BPM	BPM	BPM	BPM	BPM	BPM	BPM
3	Devadhe Nikita Subhash	BPM	BPM	BPM	BPM	BPM	BPM	BPM	BPM	BPM	BPM	BPM	BPM	BPM	BPM	BPM
4	Dhumal Shreyash Rajendra	BPM	BPM	BPM	BPM	BPM	BPM	BPM	BPM	BPM	BPM	BPM	BPM	BPM	BPM	BPM
5	Gaikwad Manali Mahaveer	BPM	BPM	BPM	BPM	BPM	BPM	BPM	BPM	BPM	BPM	BPM	BPM	BPM	BPM	BPM
6	Ghule Rutuja Devidas	BPM	BPM	BPM	BPM	BPM	BPM	BPM	BPM	BPM	BPM	BPM	BPM	BPM	BPM	BPM
7	Jagadale Purva Mahadev	BPM	BPM	BPM	BPM	BPM	BPM	BPM	BPM	BPM	BPM	BPM	BPM	BPM	BPM	BPM
8	Kalbhori Pratik Vaman	BPM	BPM	BPM	BPM	BPM	BPM	BPM	BPM	BPM	BPM	BPM	BPM	BPM	BPM	BPM
9	Kale Preeti Prakash	BPM	BPM	BPM	BPM	BPM	BPM	BPM	BPM	BPM	BPM	BPM	BPM	BPM	BPM	BPM
10	Kale Sahil Ramesh	BPM	BPM	BPM	BPM	BPM	BPM	BPM	BPM	BPM	BPM	BPM	BPM	BPM	BPM	BPM
11	Kamthe Pratik Dnyaneshwar	BPM	BPM	BPM	BPM	BPM	BPM	BPM	BPM	BPM	BPM	BPM	BPM	BPM	BPM	BPM
12	Karale Prajakta Prakash	BPM	BPM	BPM	BPM	BPM	BPM	BPM	BPM	BPM	BPM	BPM	BPM	BPM	BPM	BPM
13	Khade Sanket Bhausaheb	BPM	BPM	BPM	BPM	BPM	BPM	BPM	BPM	BPM	BPM	BPM	BPM	BPM	BPM	BPM
14	Khaladkar Karan Vitthal	BPM	BPM	BPM	BPM	BPM	BPM	BPM	BPM	BPM	BPM	BPM	BPM	BPM	BPM	BPM
15	Lende Snehal Balu	BPM	BPM	BPM	BPM	BPM	BPM	BPM	BPM	BPM	BPM	BPM	BPM	BPM	BPM	BPM
16	Mane Sunil Dashrath	BPM	BPM	BPM	BPM	BPM	BPM	BPM	BPM	BPM	BPM	BPM	BPM	BPM	BPM	BPM
17	Patil Avishkar Ramrao	BPM	BPM	BPM	BPM	BPM	BPM	BPM	BPM	BPM	BPM	BPM	BPM	BPM	BPM	BPM
18	Pawar Abhishek Ganesh	BPM	BPM	BPM	BPM	BPM	BPM	BPM	BPM	BPM	BPM	BPM	BPM	BPM	BPM	BPM
19	Pawar Apurwa Sindyaabapu	BPM	BPM	BPM	BPM	BPM	BPM	BPM	BPM	BPM	BPM	BPM	BPM	BPM	BPM	BPM
20	Rakh Bhagyashree Madhav	BPM	BPM	BPM	BPM	BPM	BPM	BPM	BPM	BPM	BPM	BPM	BPM	BPM	BPM	BPM
21	Shivankar Akash Ankush	BPM	BPM	BPM	BPM	BPM	BPM	BPM	BPM	BPM	BPM	BPM	BPM	BPM	BPM	BPM
22	Sonawale Dhananjay Mahadeo	BPM	BPM	BPM	BPM	BPM	BPM	BPM	BPM	BPM	BPM	BPM	BPM	BPM	BPM	BPM
23	Tamhane Shirraj Sandip	BPM	BPM	BPM	BPM	BPM	BPM	BPM	BPM	BPM	BPM	BPM	BPM	BPM	BPM	BPM
24	Vetal Ashwini Lubhan	BPM	BPM	BPM	BPM	BPM	BPM	BPM	BPM	BPM	BPM	BPM	BPM	BPM	BPM	BPM
25	Waghmode Pradip Babu	BPM	BPM	BPM	BPM	BPM	BPM	BPM	BPM	BPM	BPM	BPM	BPM	BPM	BPM	BPM
<b>Name &amp; Sign of the Teacher</b>																
	NNP - Dr. Patil Neha N.															
	MVD - Mr. Deshpande Mangesh V.															
	UVK - Dr. Khisti Ujwala V.															
	SRS - Dr. Shinde Shibhangi R.															

  
 Head  
 Department of Microbiology  
 Annasaheb Marg, Maharashtra  
 Hadapsar, Pune - 411014





P.D.E.A.'s

Annasaheb Magar Mahavidyalaya, Hadapsar, Pune-28

Department of Microbiology (U.G.)

Date:- 09/02/2020

## REPORT

### On Certificate Course for Students of T.Y.B.Sc. (Microbiology)

Department of Microbiology has conducted a Certificate Course on "The Techniques in Immunology and Molecular Biology" from 1<sup>st</sup> January 2020 to 08<sup>th</sup> February 2020 of 30 lectures duration. This course was conducted for pursuing service in diagnostic labs after graduation. Twenty five students participated and completed the course.

Course  
coordinator

Head  
Department of Microbiology  
Annasaheb Magar Mahavidyalaya  
Hadapsar, Pune - 411028

Vice principal

Principal

**Principal**  
Annasaheb Magar Mahavidyalaya,  
Hadapsar, Pune-411028.