

Rayat Shikshan Sanstha's

D. P. Bhosale College, Koregaon

Department of Microbiology (2021-2022)

Notice

Date: 15 /02/2022

All the student of B.Sc. III (Microbiology) are the here by informed that Department of Microbiology going to organize Short term Course on **“Microbial quality control in industries”**. From 21st Feb, 2022 for 6 Months.

Presence of the students of B. Sc. III is compulsory.


HEAD

DEPARTMENT OF MICROBIOLOGY
D.P. BHOSALE COLLEGE, KOREGAON

Department of Microbiology





**Principal,
D.P. Bhosale College, Koregaon**

Rayat Shikshan Sanstha's

D.P.Bhosale College, Koregaon

Department of Microbiology

Short term course

MICROBIAL QUALITY CONTROL IN INDUSTRIES

BSC III

Year: 2021-22

Report

The **Department of Microbiology** organized Short term course on “**MICROBIAL QUALITY CONTROL IN INDUSTRIES**”. The short term course was organized with prime objective to education that a student has acquired in his graduate studies is not enough to meet the demands when he/she is working in a responsible position in a pharmaceutical or in microbial industry. The short term course in Microbial quality control in industries offered by the Microbiology Department has specially designed to cater the requirements of such students. The syllabus has be designed which will satisfies the demand position in a pharmaceutical or in microbial industry. To prepare graduate students (B.Sc.) with in depth knowledge and skill for professional careers in microbiology the syllabus includes theory lectures and practical.

We have completed short term course syllabus in 10 lectures, 6 practical and 2 guest lecturers were organized. There was 100% presenty for all lecture and praticals. Online guest lecture was organised, in two sessions. The guests invited were professors from Yashavantrao Chavan Institute of Science, Satara.

Session I

During the first session of the workshop Mr. J. R. Yadav, Associate Professor, Department of Microbiology and Biochemistry, YCIS, Satara, delivered his speech on “**Quality control and assurance- SOP, GLP and GMP**”. He focused on the how to maintain quality control protocol in pharmaceutical industries and he also explained good laboratory practises. Prof. S. R. Inje was session In-charge.

Session II

Session II of lecture was started at 12:00pm. Mrs. Manisha Shinde , Assistant Professor , Department of Microbiology and Biochemistry, YCIS, Satara. And she delivered lecture on, “**Pharmacopeia**”. She explained what pharmacopeia is and what need of pharmacopeia in during manufacturing for medicines. Prof. S. R. Inje was session In-charge.

The department could organise this short term course successfully with the kind cooperation and guidance of Principal. Dr. V. S. Sawant Vice Principal Dr. S. D. Jadhav Prof. and co-ordinator Dr. S. P. Nalawade.

To conclude the short term course turned out to be rich experience for students raising their confidence to precede their career in industries as microbiologist.

Learning Outcomes-

After performing the practical course students will be able to –

- Evaluate the microbiological analysis of environment in industries.
- Comprehend the concept of SOP, GMP and GLP in industries.
- Practically perform antimicrobial testing.

Data -

Sr.No.	Course Conducted by Faculty	Visiting Faculty
1.	Miss. S. R. Inje	Mr. J. R. Yadav
2.	Miss. S. A. Kshirsagar	Mrs. Manisha Shinde
3.	Miss. R. M. Nadaf	

	Faculty Lectures	Guest Lectures	Practical	Number of Beneficiary
	10	2	6	15 Students
Presenty of Students	15	15	15	Total No. of Beneficiary: 270

[Handwritten Signature]

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Short term course

MICROBIAL QUALITY CONTROL IN INDUSTRIES

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Invitation and Appreciation to Guest Lecturers

Rayat Shikshan Sanstha's

D.P.Bhosale College, Koregaon

Department of Microbiology

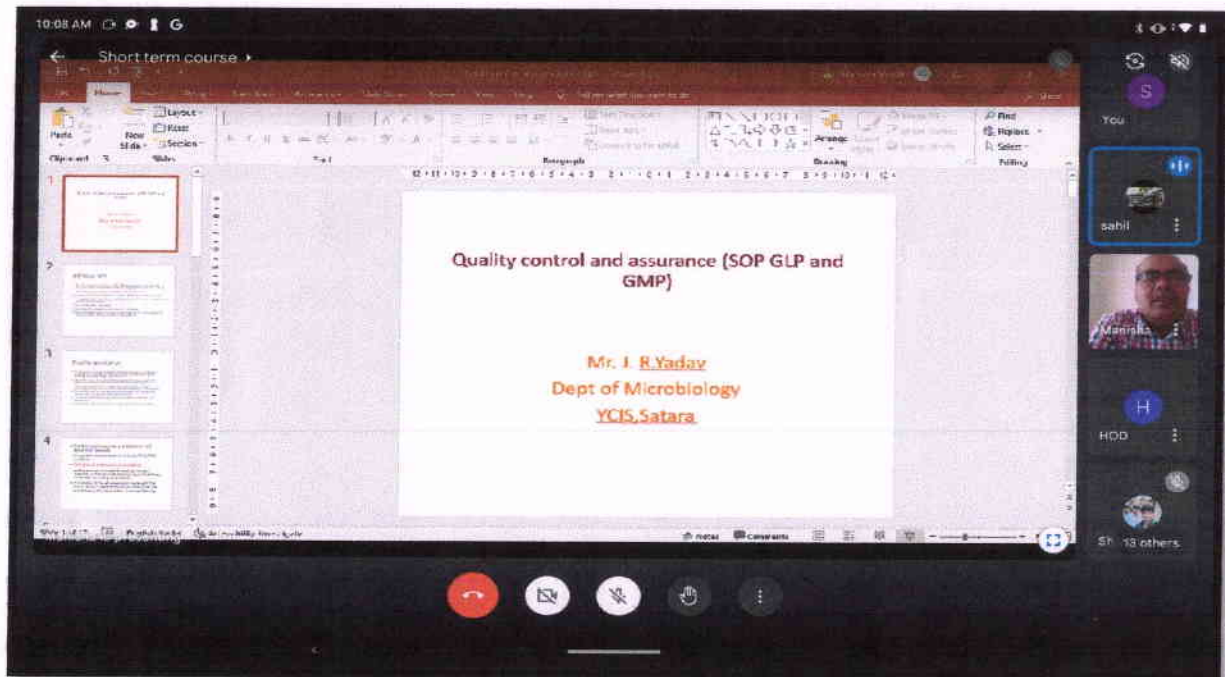
Short term course

MICROBIAL QUALITY CONTROL IN INDUSTRIES

BSC III

Year: 2021-22

Report



Guest Lecture: - Mr. J. R. Yadav, Associate Professor, Department of Microbiology and Biochemistry, YCIS, Satara, delivered his speech on Quality control and assurance- SOP, GLP and GMP

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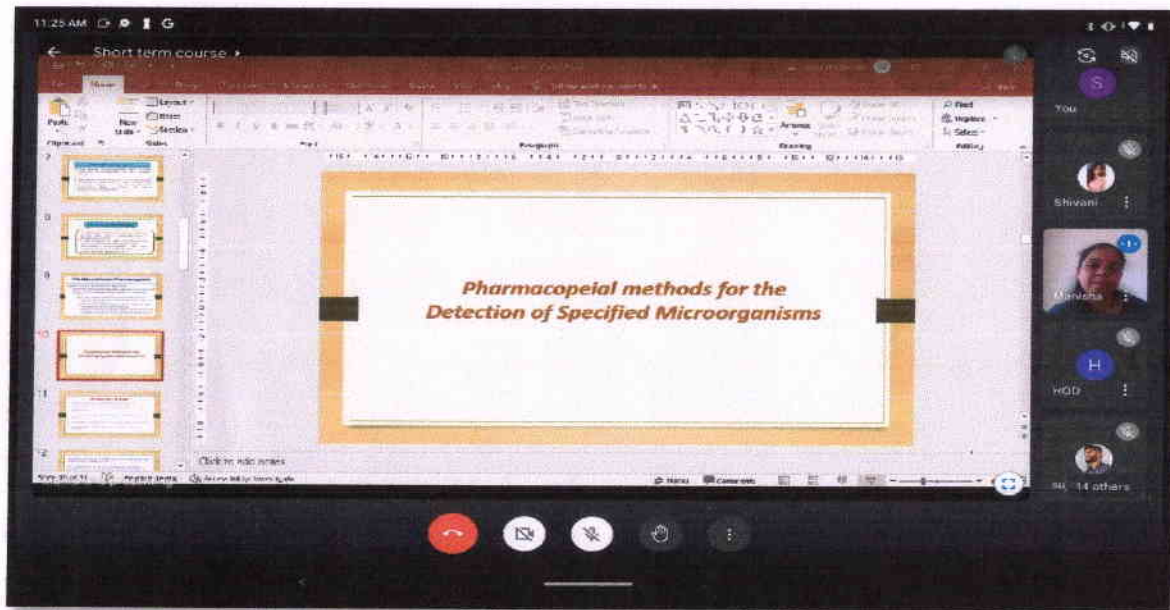
Department of Microbiology

Short term course

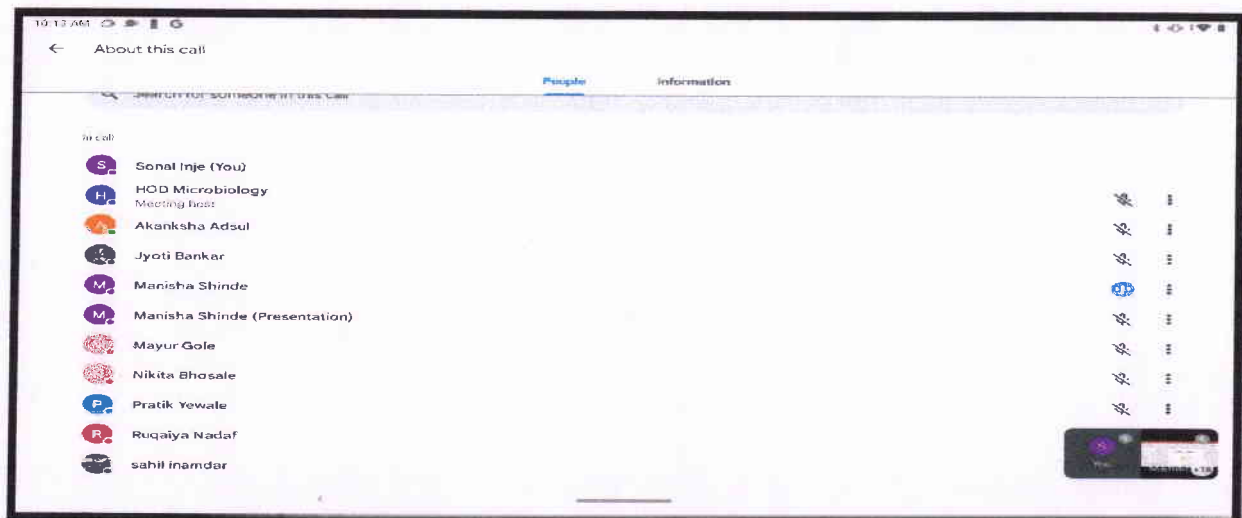
MICROBIAL QUALITY CONTROL IN INDUSTRIES

BSC III

Year: 2021-22



Guest Lecture: - Mrs. Manisha Shinde, Assistant Professor, Department of Microbiology and Biochemistry, YCIS, Satara. And she delivered lecture on, "Pharmacopeia".



Online lecture Student Present

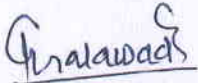
Rayat Shikshan Sanstha's
D. P. Bhosale College, Koregaon

Tal. Koregaon Dist. Satara MS India- 415 501

Re-accredited by NAAC with 'A' Grade (CGPA 3.12)

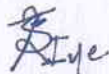
Certificate of Participation

This is to certify that **Mr./Mrs./Miss.** _____ of **B.Sc.-III (Microbiology)** has successfully completed the short term course entitled "**Microbial Quality Control In Industries**" during academic year 2021-2022.



Coordinator

Dept. of Microbiology



Head

Department of Microbiology



Principal

D. P. Bhosale College, Koregaon

Rayat Shikshan Sanstha's

D.P.Bhosale College, Koregaon

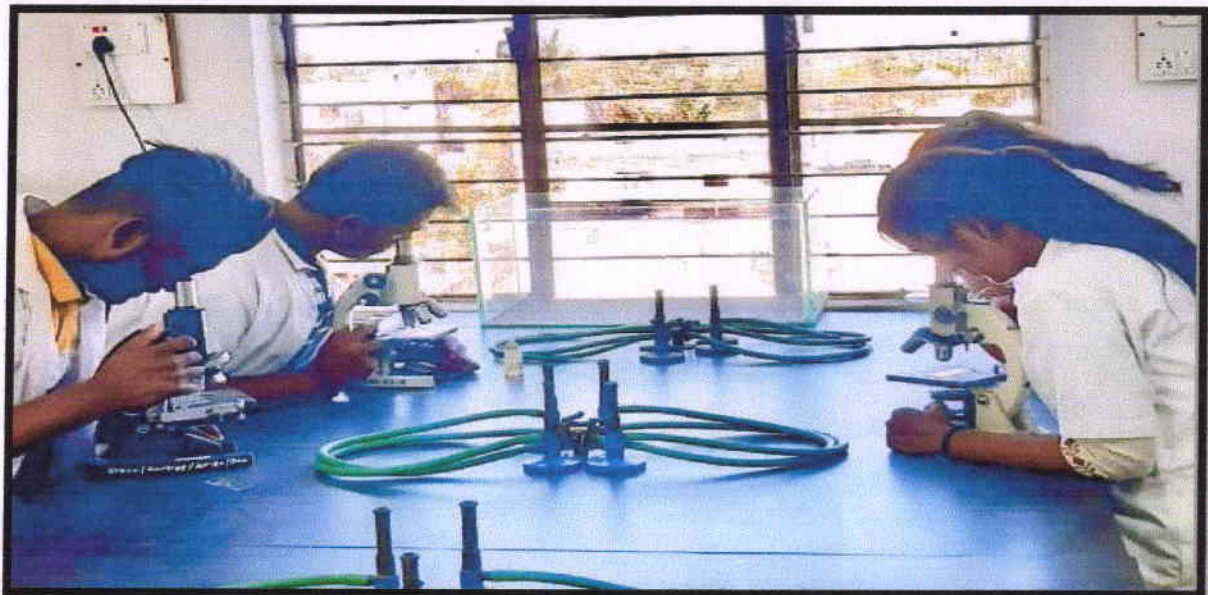
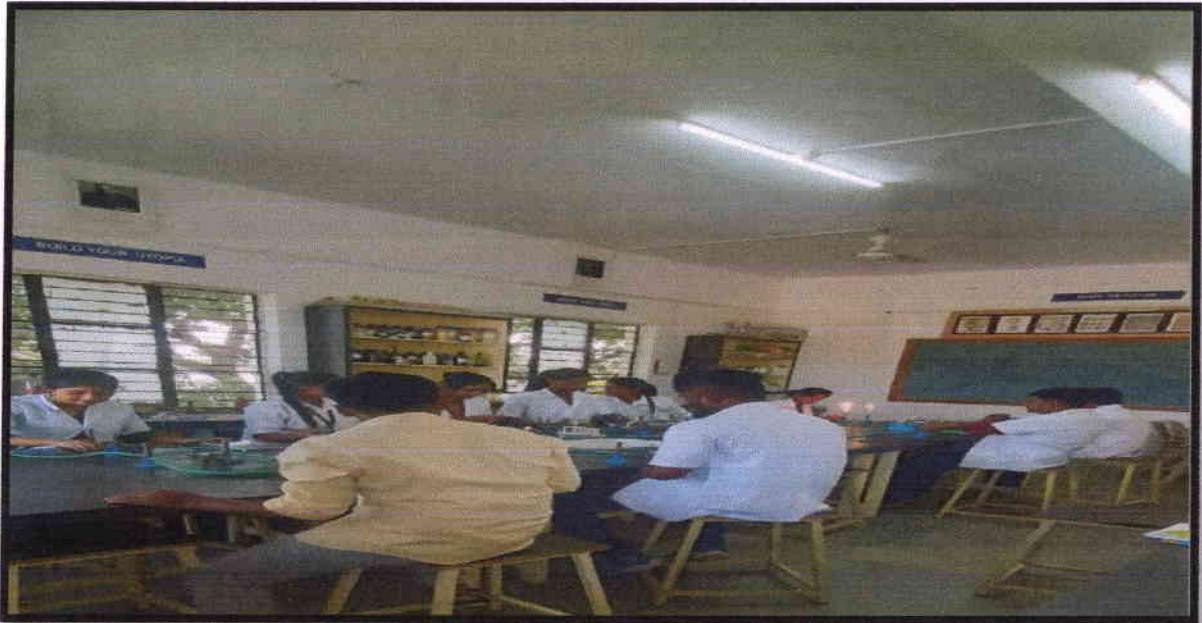
Department of Microbiology

Short term course

MICROBIAL QUALITY CONTROL IN INDUSTRIES

BSC III

Year: 2021-22



Students Performing Short Term Course Practical

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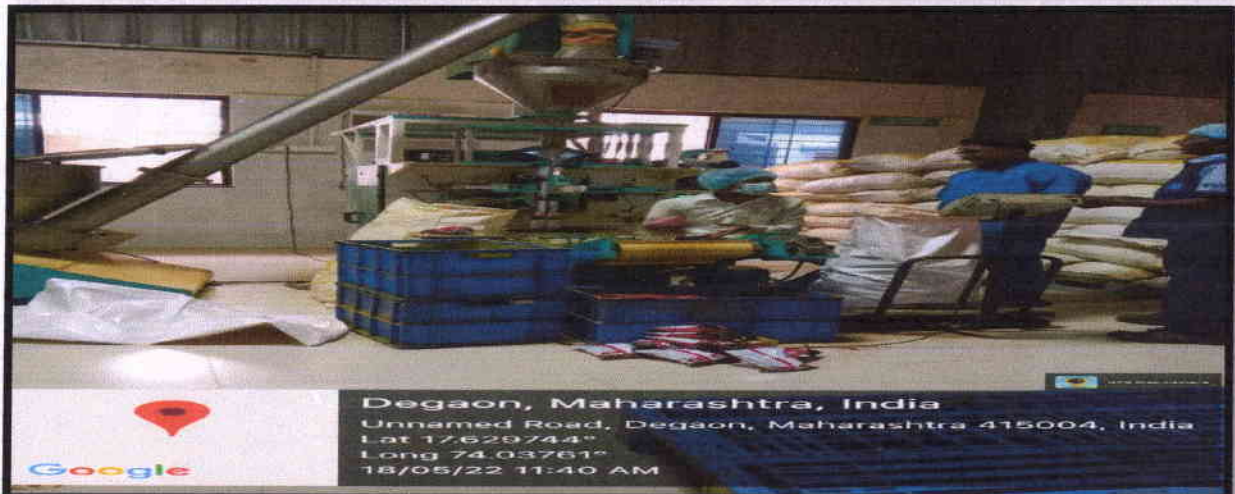
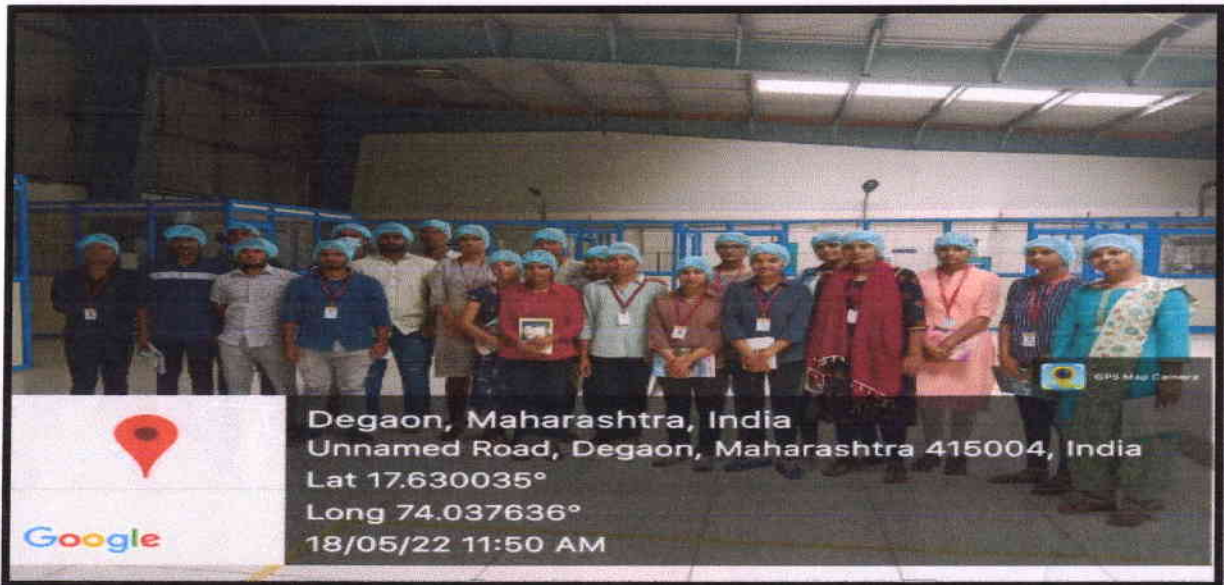
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Short term course

MICROBIAL QUALITY CONTROL IN INDUSTRIES

BSC III

Year: 2021-22



Short Term Course Food Industries Visit- BVG Food Mega Mart- Quality control and assurance- SOP, GLP and GMP

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DEPARTMENT OF MICROBIOLOGY
D.P. BHOSALE COLLEGE, KOREGAON

Department of Microbiology

Estd: 1968



"Education through self-help is our motto" – Karmaveer

Rayat Shikshan Sanstha's,

D.P. Bhosale College, Koregaon

Tal. Koregaon, Dist.- Satara, 415 501, Maharashtra (India)

☎ (02163) 220219 Email- dpbckoregaon@gmail.com Website - www.dpbck.in

Arts, Commerce, Science, BCA, B.Voc. (Sust. Agri.)

NAAC Reaccredited: 'A' Grade with CGPA 3.12

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Affiliated : Shivaji University, Kolhapur * Uni. Affil. No. UKF/7569/11529-y * Jr. College Index No. J21.05.001

Principal, Dr. Vijaysinh S. Sawant M.Sc. Ph.D.

Ref. No. :

Date : 4 / 7 / 2022

To,

Mr. Jaywantrao Yadav
Associate Professor
Dept of Microbiology
YCIS, Satara

Subject: - Invitation for Short term course lecture, "Microbial Quality Control in Industries".

Respected Sir,

It gives us as immense pleasure to inform you that the Department of Microbiology has organized Short term course, "Microbial Quality Control in Industries". We are glad to cordially invite you to be our guest lecturer. We will be honored if consider granting us your presence.

We are looking forward to having your company.

Thanking You.

Yours faithfully,

Principal,

D.P. Bhosale College, Koregaon

Tal – Koregaon, Dist. –Satara

Contact:

HEAD

DEPARTMENT OF MICROBIOLOGY

D.P. BOSALE COLLEGE KOREGAON

Miss. S.R. Inje

Head,

Department of Microbiology

Estd: 1968



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Principal, Dr. Vijaysinh S. Sawant M.Sc. Ph.D.

Ref. No. :

Date : 06 / 07 / 2022

To,

Mr. Jaywantrao Yadav
Associate Professor
Dept of Microbiology
YCIS, Satara

Subject: Appreciation Letter.

Respected Sir,

We would like to express our sincere gratitude towards you. Your lecture on, "Microbial Quality Control in Industries", showed the directions to students to select the best carrier option in Industries as a Microbiologist. The feedback received from the students was enthusiastic.

We look forward with same kind of cooperation from you in future also.

Thank you.

Yours faithfully,

Principal,

D.P. Bhosale College, Koregaon

Tal – Koregaon, Dist. – Satara



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Principal, Dr. Vijaysinh S. Sawant M.Sc. Ph.D.

Ref. No. :

Date : 04/07/20 22

To,
Mrs. Manisha Shinde
Assistant Professor
Yashavantrao Chavan Institute of Science, Satara

Subject: - Invitation for Short term course lecture, "Microbial Quality Control in Industries".

Respected Madam,

It gives us as immense pleasure to inform you that the Department of Microbiology has organized Short term course, "Microbial Quality Control in Industries". We are glad to cordially invite you to be our guest lecturer. We will be honored if consider granting us your presence.

We are looking forward to having your company.

Thanking You.

Yours faithfully,

Principal,

D.P. Bhosale College, Koregaon

Tal – Koregaon, Dist. –Satara



Contact:

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DEPARTMENT OF MICROBIOLOGY
D.P. BHOSALE COLLEGE, KOREGAON

Miss. S.R. Inje

Head,

Department of Microbiology

Estd: 1968



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Principal, Dr. Vijaysinh S. Sawant M.Sc. Ph.D.

Ref. No. :

Date : 6/7/2022

To,
Mrs. Manisha Shinde
Assistant Professor
Yashavantrao Chavan Institute of Science, Satara

Subject: Appreciation Letter.

Respected Madam,

We would like to express our sincere gratitude towards you. Your lecture on, "Microbial Quality Control in Industries", showed the directions to students to select the best carrier option in Industries as a Microbiologist. The feedback received from the students was enthusiastic.

We look forward with same kind of cooperation from you in future also.

Thank you.

Yours faithfully,

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Tal – Koregaon, Dist. –Satara



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DEPARTMENT OF MICROBIOLOGY
D.P. BHOSALE COLLEGE, KOREGAON

Rayat Shikshan Sanstha's

D.P.Bhosale College, Koregaon

Department of Microbiology

Short term course

MICROBIAL QUALITY CONTROL IN INDUSTRIES

BSC III

Year: 2021-22

Time Table

Time	Monday	Tuesday	Wednesday	Thursday	Friday	Saturday
2.50 pm - 5.00pm	B.Sc III Lectures SRI RMN	B.Sc III Lectures SRI SAK	B.Sc III Practical SRI RMN SAK	B.Sc III Practical SRI RMN SAK	B.Sc III Practical SRI RMN SAK	B.Sc III Practical SRI RMN SAK

SRI: Miss. S R Inje

RMN: R M Nadaf

SAK: Miss. S A Kshirsagar

SRI

SAK

Head

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DEPARTMENT OF MICROBIOLOGY
D.P. BHOSALE COLLEGE, KOREGAON

H.O.D

Department of Microbiology

Rayat Shikshan Sanstha's

D.P.Bhosale College, Koregaon

Department of Microbiology

Short term course




MICROBIAL QUALITY CONTROL IN INDUSTRIES

BSC III

Year: 2021-22

Faculty Profile

College Faculty Profile -

Sr. No.	Name	Designation	Qualification	Experience	Photo
1.	Miss. S. R. Inje.	Assistant Professor	M.Sc. NET-JRF GATE	1	
2.	Miss. R. M. Nadaf	Assistant Professor	M.Sc.	1	
3.	Miss. S. A. Kshirsagar	Assistant Professor	M.Sc.	1	

Visiting Faculty-

Sr. No.	Name	Designation	Qualification	Experience	Photo
1.	Mr. J. R. Yadav	Associate Professor YCIS Satara	M.Sc	32 years	
2.	Mrs. Manisha Shinde	Assistant Professor YCIS Satara	M.Sc SET	9 years	

Rayat Shikshan Sanstha's

D.P.Bhosale College, Koregaon

Department of Microbiology

Short term course

MICROBIAL QUALITY CONTROL IN INDUSTRIES

BSC III

Year: 2021-22

Syllabus Objectives

Objectives:-

Education that a student has acquired in his graduate studies is not enough to meet the demands when he/she is working in a responsible position in a pharmaceutical or in microbial industry. In most of the organizations fresher candidate are not given the job oriented instruction that they need and they find it difficult to adapt themselves to the working situations in which they are called upon to operate.

The short term course in Microbial quality control in industries offered by the Microbiology Department has specially designed to cater the requirements of such students.

- The course aims at covering the basic techniques and their applications to pharmaceutical industries.
- Students should get basic knowledge about antimicrobial agent and about efficacy testing.
- Students should also understand tools and techniques used in antimicrobial testing.
- Students should also understand regulations and recommendations about pharmacopeia.

Goals:-

The specific goal of the short term course is:

- To prepare graduate students (B.Sc.) with in depth knowledge and skill for professional careers in microbiology.
- Inculcate among the students skills and value of dignity of labor.
- Provide an environment which fosters the continuous improvement and innovations in the subject.

Learning Outcomes-

After performing the practical course students will be able to –

- Evaluate the microbiological analysis of environment in industries.
- Comprehend the concept of SOP, GMP and GLP in industries.
- Practically perform antimicrobial testing.

Rayat Shikshan Sanstha's
D. P. Bhosale College, Koregaon
Department of Microbiology
Short term course

MICROBIAL QUALITY CONTROL IN INDUSTRIES

B.Sc. III

Year: 2021-22

Course	Name of course	Lectures Hour per Unit
Unit I-	<p>Microbiological standards in Pharmaceutical industries</p> <p>A. Design of aseptic area, laminar flow equipment; study of different sources of contamination in an aseptic area and methods of prevention, clean area classification.</p> <p>B. Principles and methods of different microbiological assay.</p> <p>C. Assessment of a new antibiotic and testing of antimicrobial activity of a new substance. General aspects – environmental cleanliness.</p>	10 Hours
Unit II	<p>Quality control and Assurance (SOP, GLP, GMP)</p> <p>A) GMP and regulations</p> <ol style="list-style-type: none"> 1. Introduction 2. Good manufacturing practice 3. Importance of medicines in public health 4. The role and development of pharmacopoeias 5. Importance of inspections in the lifecycle of medicines 6. Role of the company regulatory affairs department 7. Documentation 8. Conclusion <p>B) Cleaning and disinfection</p> <ol style="list-style-type: none"> 1. Introduction 2. Cleaning 3. Disinfection 4. Good manufacturing Practice requirements 5. Measuring disinfection effectiveness : environmental 	10 Hours

	monitoring <ol style="list-style-type: none"> 6. Disinfectant efficacy 7. Conclusion 	
Unit III-	Testing of pharmaceutical products A) Microbiology laboratory techniques <ol style="list-style-type: none"> 1. Introduction 2. Good laboratory practice and laboratory safety 3. Aseptic technique 4. Cultures and identifications 5. Microscopy 6. Pharmacopeia and microbiological tests 7. Microbiological examination of non-sterile products 8. Measurement of cell concentration in suspension by optical density 9. Sterility testing 10. Microbiological assay of antibiotics 11. Environmental monitoring 12. Water analysis 	10 Hours
UnitIV	Bio burden determination <ol style="list-style-type: none"> 1. Microbial count 2. Units of measurement 3. No sterile products and microbial limits testing 4. In-process material bio burden assessment 5. Pre sterilization bio burden assessment 6. Alternative methods of bio burden assessment 	10 Hours

Books recommended for theory-

1. Handbook of microbiology quality control- Norman A Hodges and Stephen P. Denyer.
2. Pharmaceutical microbiology- 6th edition- W.B. Hugo and A.D. Russell
3. Basic experimental microbiology by Ronald M. atlas, Alfred E. Brown
4. The basic pharmacology by – Harper
5. Biochemistry of antimicrobial action – Chapman and Hall, London.
6. Microbial quality assurance in pharmaceuticals by - Sally F. Bloomfield

7. Pharmaceutical quality control Microbiology- A guide Book to the basics, Scott Sutton
8. Pharmaceutical microbiology by- Purohit
9. Industrial, Pharmaceutical microbiology- I, Standard and control editors- Doctor N. Hodge


Practical Syllabus

Sr. No	Practical Names
1.	Microbiological analysis of water- MPN
2.	Presumptive test of water
3.	Confirm test of water
4.	Completed test of water
5.	Determination of MIC of drug
6.	Estimation of antimicrobial activity
7.	Good manufacturing practices (GMP)
8.	Agar dilution technique
9.	Diffusion method by Gradient plate technique.

Suggested books for practicals -

1. Introduction to practical biochemistry by- D. Plummer, J Willey and Sons.
2. Introduction to microbial technique by Gunase karan.
3. Experimental microbiology by Patel and Patel.
4. Biochemistry of antimicrobial action, Chapman and Hall London, Franklin T.J. and Snow G A. 1975
5. Goldsmith A. Aronow L. Kalman S.M. (1969) the basic pharmacology, Harper international edition, New York
6. Kokate C K, Purohit A P, gokhale A B (2000), Pharmacology 4th edition, Nirali prakashan

Syllabus Design by: Miss. S. R. Inje


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D.P. BHOSALE COLLEGE, KOREGAON
Department of Microbiology

Rayat Shikshan Sanstha's

D.P.Bhosale College, Koregaon

Department of Microbiology

Short term course

MICROBIAL QUALITY CONTROL IN INDUSTRIES

BSC III

Year: 2021-22

Syllabus distribution

Course	Name of course	Name of Faculty
Unit I-	<p>Microbiological standards in Pharmaceutical industries</p> <p>A. Design of aseptic area, laminar flow equipment; study of different sources of contamination in an aseptic area and methods of prevention, clean area classification.</p> <p>B. Principles and methods of different microbiological assay.</p> <p>C. Assessment of a new antibiotic and testing of antimicrobial activity of a new substance. General aspects – environmental cleanliness.</p>	Miss. S. R. Inje
UnitII	<p>Quality control and Assurance (SOP,GLP,GMP)</p> <p>A) GMP and regulations</p> <ol style="list-style-type: none">1. Introduction2. Good manufacturing practice3. Importance of medicines in public health4. The role and development of pharmacopoeias5. Importance of inspections in the lifecycle of medicines6. Role of the company regulatory affairs department7. Documentation8. Conclusion <p>B) Cleaning and disinfection</p> <ol style="list-style-type: none">1. Introduction2. Cleaning3. Disinfection4. Good manufacturing Practice requirements5. Measuring disinfection effectiveness : environmental	Miss. S. R. Inje

	<p>monitoring</p> <ol style="list-style-type: none"> 6. Disinfectant efficacy 7. Conclusion 	
UnitIII-	<p>Testing of pharmaceutical products</p> <p>A) Microbiology laboratory techniques</p> <ol style="list-style-type: none"> 1. Introduction 2. Good laboratory practice and laboratory safety 3. Aseptic technique 4. Cultures and identifications 5. Microscopy 6. Pharmacopeia and microbiological tests 7. Microbiological examination of non-sterile products 8. Measurement of cell concentration in suspension by optical density 9. Sterility testing 10. Microbiological assay of antibiotics 11. Environmental monitoring 12. Water analysis 	Miss. S. A. Kshirsagar
UnitIV	<p>Bio burden determination</p> <ol style="list-style-type: none"> 1. Microbial count 2. Units of measurement 3. No sterile products and microbial limits testing 4. In-process material bio burden assessment 5. Pre sterilization bio burden assessment 6. Alternative methods of bio burden assessment 	Miss. R. M. Nadaf

MICROBIAL QUALITY CONTROL IN INDUSTRIES

Short term course

Practical Syllabus Distribution

Sr. No	Practical Names
1.	Microbiological analysis of water- MPN
2.	Presumptive test of water
3.	Confirm test of water
4.	Completed test of water
5.	Determination of MIC of drug
6.	Estimation of antimicrobial activity
7.	Good manufacturing practices (GMP)
8.	Agar dilution technique
9.	Diffusion method by Gradient plate technique.

➤ Miss .S.R. Inje

➤ Miss. S. A. Kshirsagar

➤ Miss. R. M. Nadaf


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DEPARTMENT OF MICROBIOLOGY
Head
COLLEGE OF ENGINEERING

Department of Microbiology

Rayat Shikshan Sanstha's

D. P. Bhosale College, Koregaon



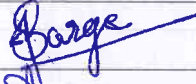



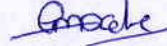
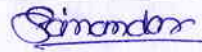


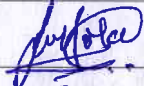

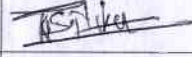
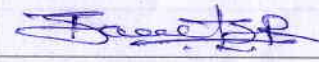
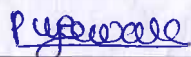
Department of Microbiology

Short Term Course On,

"Microbial Quality control in Industries"

B.Sc. III Microbiology

Topic Name: Unit I: Microbiological standards in Pharmaceutical industries. **Date:** 21/02/2022

Sr. No.	Name of the Student	Signature
1	Adsul Akanksha Parmod	
2	Banker Jyoti Dattatray	
3	Barge Tejal Sudhir	
4	Bhosale Nikita Rajendra	
5	Bhosale Shivani Suresh	
6	Bhosale Shravani Shailesh	
7	Gole Mayur Dinkar	
8	Inamdar Sahil Amir	
9	Kadam Partik Ajay	
10	Kamble Srushti Manojkumar	
11	Mali Sujit Ashok	
12	Mane Shubhada Dilip	
13	Nikam Tejas Shashikant	
14	Sawant Shivam Rajendra	
15	Yewale Pratik Shubhash	

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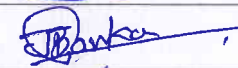


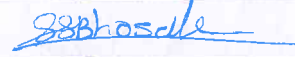


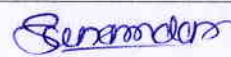
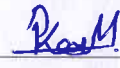



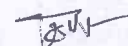
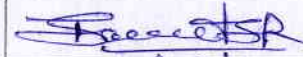
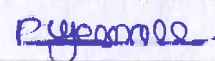
Department of Microbiology

Short Term Course On,

"Microbial Quality control in Industries"

B.Sc. III Microbiology

Topic Name: Unit I : B] Principles and methods of different microbiological assay **Date:** 22/02/2022

Sr. No.	Name of the Student	Signature
1	Adsul Akanksha Parmod	
2	Banker Jyoti Dattatray	
3	Barge Tejal Sudhir	
4	Bhosale Nikita Rajendra	
5	Bhosale Shivani Suresh	
6	Bhosale Shravani Shailesh	
7	Gole Mayur Dinkar	
8	Inamdar Sahil Amir	
9	Kadam Partik Ajay	
10	Kamble Srushti Manojkumar	
11	Mali Sujit Ashok	
12	Mane Shubhada Dilip	
13	Nikam Tejas Shashikant	
14	Sawant Shivam Rajendra	
15	Yewale Pratik Shubhash	

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Department of Microbiology

Short Term Course On,

"Microbial Quality control in Industries"

B.Sc. III Microbiology

Topic Name: Unit I: c] Assessment of new Antibiotics & testing of antimicrobial activity of a new substance **Date:** 28/02/2022

Sr. No.	Name of the Student	Signature
1	Adsul Akanksha Parmod	Adsul.
2	Banker Jyoti Dattatray	Banker
3	Barge Tejal Sudhir	Barge
4	Bhosale Nikita Rajendra	Bhosale
5	Bhosale Shivani Suresh	Bhosale
6	Bhosale Shravani Shailesh	Bhosale
7	Gole Mayur Dinkar	Gole
8	Inamdar Sahil Amir	Inamdar
9	Kadam Partik Ajay	Kadam
10	Kamble Srushti Manojkumar	Kamble
11	Mali Sujit Ashok	Mali
12	Mane Shubhada Dilip	Mane
13	Nikam Tejas Shashikant	Nikam
14	Sawant Shivam Rajendra	Sawant
15	Yewale Pratik Shubhash	Yewale

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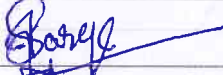

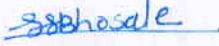



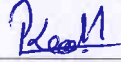



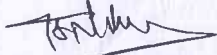
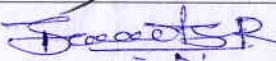
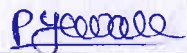
Department of Microbiology

Short Term Course On,

"Microbial Quality control in Industries"

B.Sc. III Microbiology

Topic Name: Unit III: AJ Microbiology Date: 7/03/2022
laboratory & laboratory safety.

Sr. No.	Name of the Student	Signature
1	Adsul Akanksha Parmod	
2	Banker Jyoti Dattatray	
3	Barge Tejal Sudhir	
4	Bhosale Nikita Rajendra	
5	Bhosale Shivani Suresh	
6	Bhosale Shravani Shailesh	
7	Gole Mayur Dinkar	
8	Inamdar Sahil Amir	
9	Kadam Partik Ajay	
10	Kamble Srushti Manojkumar	
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12	Mane Shubhada Dilip	
13	Nikam Tejas Shashikant	
14	Sawant Shivam Rajendra	
15	Yewale Pratik Shubhash	

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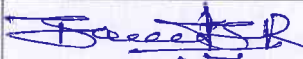
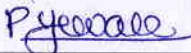
Department of Microbiology

Short Term Course On,

"Microbial Quality control in Industries"

B.Sc. III Microbiology

Topic Name: Unit III: Microbiological assay of antibiotics. **Date:** 21/03/2022
Environmental monitoring, water analysis

Sr. No.	Name of the Student	Signature
1	Adsul Akanksha Parmod	
2	Banker Jyoti Dattatray	
3	Barge Tejal Sudhir	
4	Bhosale Nikita Rajendra	
5	Bhosale Shivani Suresh	
6	Bhosale Shravani Shailesh	
7	Gole Mayur Dinkar	
8	Inamdar Sahil Amir	
9	Kadam Partik Ajay	
10	Kamble Srushti Manojkumar	
11	Mali Sujit Ashok	
12	Mane Shubhada Dilip	
13	Nikam Tejas Shashikant	
14	Sawant Shivam Rajendra	
15	Yewale Pratik Shubhash	

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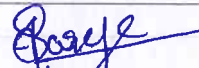

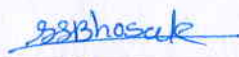

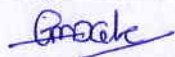



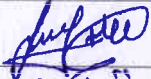


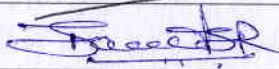
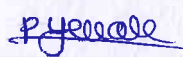
Short Term Course On,

"Microbial Quality control in Industries"

B.Sc. III Microbiology

Topic Name: Unit II :- Cleaning & disinfection

Date: 28/03/2022

Sr. No.	Name of the Student	Signature
1	Adsul Akanksha Parmod	
2	Banker Jyoti Dattatray	
3	Barge Tejal Sudhir	
4	Bhosale Nikita Rajendra	
5	Bhosale Shivani Suresh	
6	Bhosale Shravani Shailesh	
7	Gole Mayur Dinkar	
8	Inamdar Sahil Amir	
9	Kadam Partik Ajay	
10	Kamble Srushti Manojkumar	
11	Mali Sujit Ashok	
12	Mane Shubhada Dilip	
13	Nikam Tejas Shashikant	
14	Sawant Shivam Rajendra	
15	Yewale Pratik Shubhash	

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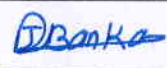
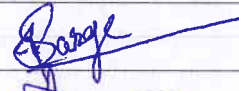

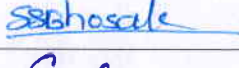


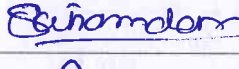
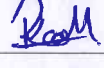




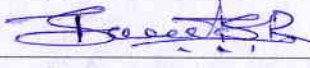
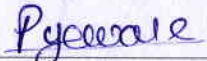
Department of Microbiology

Short Term Course On,

"Microbial Quality control in Industries"

B.Sc. III Microbiology

Topic Name: Unit IV: 1. Microbial count **Date:** 11/04/2022
2. Unit of measurement
3. No sterile product and microbial limits testing

Sr. No.	Name of the Student	Signature
1	Adsul Akanksha Parmod	
2	Banker Jyoti Dattatray	
3	Barge Tejal Sudhir	
4	Bhosale Nikita Rajendra	
5	Bhosale Shivani Suresh	
6	Bhosale Shravani Shailesh	
7	Gole Mayur Dinkar	
8	Inamdar Sahil Amir	
9	Kadam Partik Ajay	
10	Kamble Srushti Manojkumar	
11	Mali Sujit Ashok	
12	Mane Shubhada Dilip	
13	Nikam Tejas Shashikant	
14	Sawant Shivam Rajendra	
15	Yewale Pratik Shubhash	

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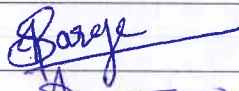
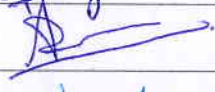


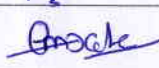
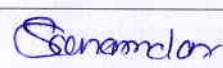
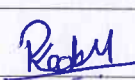

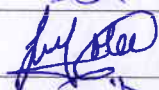


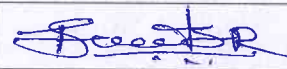
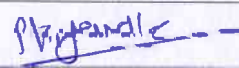
Department of Microbiology

Short Term Course On,

"Microbial Quality control in Industries"

B.Sc. III Microbiology

Topic Name: Unit IV: Bio burden determination **Date:** 18/04/2022.
Pasteurization bio burden assesment
Alternative method of Bio burden Assesment

Sr. No.	Name of the Student	Signature
1	Adsul Akanksha Parmod	
2	Banker Jyoti Dattatray	
3	Barge Tejal Sudhir	
4	Bhosale Nikita Rajendra	
5	Bhosale Shivani Suresh	
6	Bhosale Shravani Shailesh	
7	Gole Mayur Dinkar	
8	Inamdar Sahil Amir	
9	Kadam Partik Ajay	
10	Kamble Srushti Manojkumar	
11	Mali Sujit Ashok	
12	Mane Shubhada Dilip	
13	Nikam Tejas Shashikant	
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D. P. Bhosale College, Koregaon

Department of Microbiology



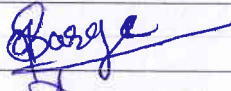

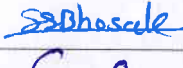
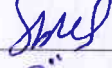
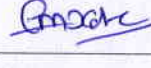
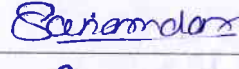
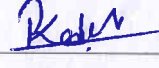

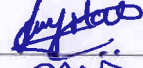

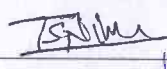
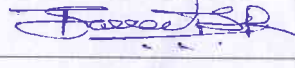
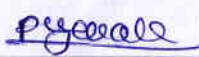
Short Term Course On,

"Microbial Quality control in Industries"

B.Sc. III Microbiology

Topic Name: Unit III : 6 Pharmacopelid & microbiological test

Date: 06/07/2022.

Sr. No.	Name of the Student	Signature
1	Adsul Akanksha Parmod	
2	Banker Jyoti Dattatray	
3	Barge Tejal Sudhir	
4	Bhosale Nikita Rajendra	
5	Bhosale Shivani Suresh	
6	Bhosale Shravani Shailesh	
7	Gole Mayur Dinkar	
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D. P. Bhosale College, Koregaon



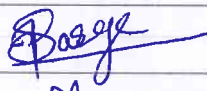

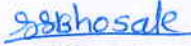

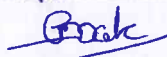
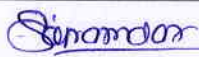



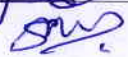


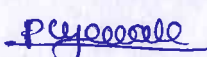
Department of Microbiology

Short Term Course On,

"Microbial Quality control in Industries"

B.Sc. III Microbiology

Topic Name: Unit II : AJGMP & regulations **Date:** 06/07/2022

Sr. No.	Name of the Student	Signature
1	Adsul Akanksha Parmod	
2	Banker Jyoti Dattatray	
3	Barge Tejal Sudhir	
4	Bhosale Nikita Rajendra	
5	Bhosale Shivani Suresh	
6	Bhosale Shravani Shailesh	
7	Gole Mayur Dinkar	
8	Inamdar Sahil Amir	
9	Kadam Partik Ajay	
10	Kamble Srushti Manojkumar	
11	Mali Sujit Ashok	
12	Mane Shubhada Dilip	
13	Nikam Tejas Shashikant	
14	Sawant Shivam Rajendra	
15	Yewale Pratik Shubhash	

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D. P. Bhosale College, Koregaon

Department of Microbiology

Short Term Course On,

"Microbial Quality control in Industries"

B.Sc. III Microbiology

Practical Name: 1) Microbiological analysis of water Date: 23 + 26 / Feb /
-er MPN 2022

2) Presumptive Test of Water
3) Confirm and 4) Complete test of water.

Sr. No.	Name of the Student	Signature
1.	Adsul Akanksha Parmod	Adsul.
2.	Banker Jyoti Dattatray	Banker
3.	Barge Tejal Sudhir	Barge
4.	Bhosale Nikita Rajendra	Nikita
5.	Bhosale Shivani Suresh	sbhosale
6.	Bhosale Shravani Shailesh	Shel
7.	Gole Mayur Dinkar	Gole
8.	Inamdar Sahil Amir	Inamdar
9.	Kadam Partik Ajay	Kadam
10.	Kamble Srushti Manojkumar	Sk
11.	Mali Sujit Ashok	Mali
12.	Mane Shubhada Dilip	Mane
13.	Nikam Tejas Shashikant	Nikam
14.	Sawant Shivam Rajendra	Sawant
15.	Yewale Pratik Shubhash	Yewale

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D. P. Bhosale College, Koregaon

Department of Microbiology



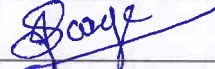




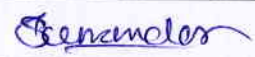




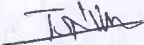

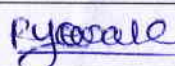
Short Term Course On,

"Microbial Quality control in Industries"

B.Sc. III Microbiology

Practical Name: 5) Determination of MIC of drugs.

Date: 8-9/03/2022

Sr. No.	Name of the Student	Signature
1.	Adsul Akanksha Parmod	
2.	Banker Jyoti Dattatray	
3.	Barge Tejal Sudhir	
4.	Bhosale Nikita Rajendra	
5.	Bhosale Shivani Suresh	
6.	Bhosale Shravani Shailesh	
7.	Gole Mayur Dinkar	
8.	Inamdar Sahil Amir	
9.	Kadam Partik Ajay	
10.	Kamble Srushti Manojkumar	
11.	Mali Sujit Ashok	
12.	Mane Shubhada Dilip	
13.	Nikam Tejas Shashikant	
14.	Sawant Shivam Rajendra	
15.	Yewale Pratik Shubhash	

Rayat Shikshan Sanstha's

D. P. Bhosale College, Koregaon



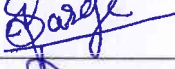

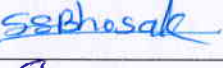

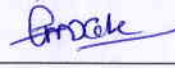
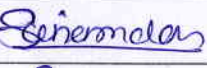
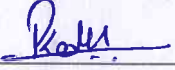


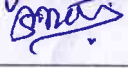
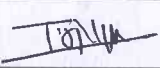

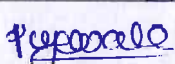
Department of Microbiology

Short Term Course On,

"Microbial Quality control in Industries"

B.Sc. III Microbiology

Practical Name: Estimation of antimicrobial activity **Date:** 16-17/03/2022

Sr. No.	Name of the Student	Signature
1.	Adsul Akanksha Parmod	
2.	Banker Jyoti Dattatray	
3.	Barge Tejal Sudhir	
4.	Bhosale Nikita Rajendra	
5.	Bhosale Shivani Suresh	
6.	Bhosale Shravani Shailesh	
7.	Gole Mayur Dinkar	
8.	Inamdar Sahil Amir	
9.	Kadam Partik Ajay	
10.	Kamble Srushti Manojkumar	
11.	Mali Sujit Ashok	
12.	Mane Shubhada Dilip	
13.	Nikam Tejas Shashikant	
14.	Sawant Shivam Rajendra	
15.	Yewale Pratik Shubhash	

Rayat Shikshan Sanstha's

D. P. Bhosale College, Koregaon



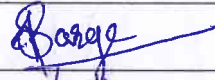

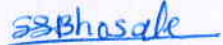
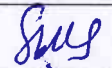

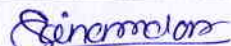
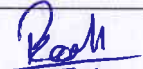


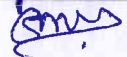
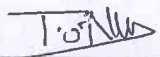
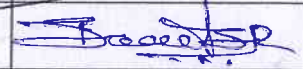

Department of Microbiology

Short Term Course On,

"Microbial Quality control in Industries"

B.Sc. III Microbiology

Practical Name: Good manufacturing practices **Date:** 25/03/22
(GMP)

Sr. No.	Name of the Student	Signature
1.	Adsul Akanksha Parmod	
2.	Banker Jyoti Dattatray	
3.	Barge Tejal Sudhir	
4.	Bhosale Nikita Rajendra	
5.	Bhosale Shivani Suresh	
6.	Bhosale Shravani Shailesh	
7.	Gole Mayur Dinkar	
8.	Inamdar Sahil Amir	
9.	Kadam Partik Ajay	
10.	Kamble Srushti Manojkumar	
11.	Mali Sujit Ashok	
12.	Mane Shubhada Dilip	
13.	Nikam Tejas Shashikant	
14.	Sawant Shivam Rajendra	
15.	Yewale Pratik Shubhash	

Rayat Shikshan Sanstha's

D. P. Bhosale College, Koregaon

Department of Microbiology

Short Term Course On,




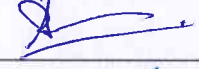
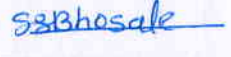


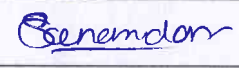


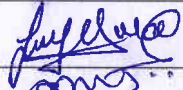

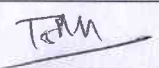
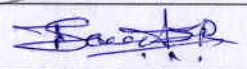
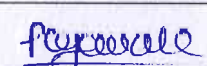
"Microbial Quality control in Industries"

B.Sc. III Microbiology

Practical Name: 8) Agar dilution technique

Date: 13/04/2022

14/04/2022

Sr. No.	Name of the Student	Signature
1.	Adsul Akanksha Parmod	
2.	Banker Jyoti Dattatray	
3.	Barge Tejal Sudhir	
4.	Bhosale Nikita Rajendra	
5.	Bhosale Shivani Suresh	
6.	Bhosale Shravani Shailesh	
7.	Gole Mayur Dinkar	
8.	Inamdar Sahil Amir	
9.	Kadam Partik Ajay	
10.	Kamble Srushti Manojkumar	
11.	Mali Sujit Ashok	
12.	Mane Shubhada Dilip	
13.	Nikam Tejas Shashikant	
14.	Sawant Shivam Rajendra	
15.	Yewale Pratik Shubhash	

Rayat Shikshan Sanstha's

D. P. Bhosale College, Koregaon








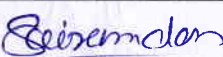



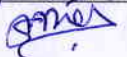
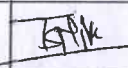

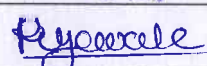
Department of Microbiology

Short Term Course On,

"Microbial Quality control in Industries"

B.Sc. III Microbiology

Practical Name: g) Diffusion method by Gradient plate technique **Date:** 23/05/2022
24/05/2022
25/05/2022

Sr. No.	Name of the Student	Signature
1.	Adsul Akanksha Parmod	
2.	Banker Jyoti Dattatray	
3.	Barge Tejal Sudhir	
4.	Bhosale Nikita Rajendra	
5.	Bhosale Shivani Suresh	
6.	Bhosale Shravani Shailesh	
7.	Gole Mayur Dinkar	
8.	Inamdar Sahil Amir	
9.	Kadam Partik Ajay	
10.	Kamble Srushti Manojkumar	
11.	Mali Sujit Ashok	
12.	Mane Shubhada Dilip	
13.	Nikam Tejas Shashikant	
14.	Sawant Shivam Rajendra	
15.	Yewale Pratik Shubhashi	

Rayat Shikshan Sanstha's

D. P. Bhosale College, Koregaon

Department of Microbiology

Short Term Course On,

"Microbial Quality control in Industries"

Feedback Form

Name of the student: Akanksha Pramod Adsul.

Class: BSC-III

Mobile No: 7841010238

1. Content of the Course

i) Excellent ii) Very Good iii) Good iv) Poor

2. Guest Lecturers knowledge

i) Excellent ii) Very Good iii) Good iv) Poor

3. Interaction of the resource persons

i) Excellent ii) Very Good iii) Good iv) Poor

4. Overall organization of the Course

i) Excellent ii) Very Good iii) Good iv) Poor

Any other Suggestions:

No suggestions.

Adsul.
Signature of Student,

Rayat Shikshan Sanstha's

D. P. Bhosale College, Koregaon

Department of Microbiology

Short Term Course On,

"Microbial Quality control in Industries"

Feedback Form

Name of the student: Iyoti Dattatray Bankar

Class: TYBSC.

Mobile No: 9579609652

1. Content of the Course

i) Excellent ii) Very Good iii) Good iv) Poor

2. Guest Lecturers knowledge

i) Excellent ii) Very Good iii) Good iv) Poor

3. Interaction of the resource persons

i) Excellent ii) Very Good iii) Good iv) Poor

4. Overall organization of the Course

i) Excellent ii) Very Good iii) Good iv) Poor

Any other Suggestions:

No suggestions.

Bankar

Signature of Student,

Rayat Shikshan Sanstha's

D. P. Bhosale College, Koregaon

Department of Microbiology

Short Term Course On,

"Microbial Quality control in Industries"

Feedback Form

Name of the student: Barge Tejal Sudhir

Class: T.Y.BSc

Mobile No: 7385276630

1. Content of the Course

i) Excellent ii) Very Good iii) Good iv) Poor

2. Guest Lecturers knowledge

i) Excellent ii) Very Good iii) Good iv) Poor

3. Interaction of the resource persons

i) Excellent ii) Very Good iii) Good iv) Poor

4. Overall organization of the Course

i) Excellent ii) Very Good iii) Good iv) Poor

Any other Suggestions:

No suggestions


Signature of Student,

Rayat Shikshan Sanstha's

D. P. Bhosale College, Koregaon

Department of Microbiology

Short Term Course On,

"Microbial Quality control in Industries"

Feedback Form

Name of the student: Bhosale Nikita Rajendra

Class: T.Y. BSC

Mobile No: 8208368569

1. Content of the Course

i) Excellent ii) Very Good iii) Good iv) Poor

2. Guest Lecturers knowledge

i) Excellent ii) Very Good iii) Good iv) Poor

3. Interaction of the resource persons

i) Excellent ii) Very Good iii) Good iv) Poor

4. Overall organization of the Course

i) Excellent ii) Very Good iii) Good iv) Poor

Any other Suggestions:

No suggestions


Signature of Student,

Rayat Shikshan Sanstha's

D. P. Bhosale College, Koregaon

Department of Microbiology

Short Term Course On,

"Microbial Quality control in Industries"

Feedback Form

Name of the student: Shivani Suresh Bhosale

Class: BSc - III

Mobile No: 8010743980

1. Content of the Course

i) Excellent ii) Very Good iii) Good iv) Poor

2. Guest Lecturers knowledge

i) Excellent ii) Very Good iii) Good iv) Poor

3. Interaction of the resource persons

i) Excellent ii) Very Good iii) Good iv) Poor

4. Overall organization of the Course

i) Excellent ii) Very Good iii) Good iv) Poor

Any other Suggestions:

No suggestions

gshosale
Signature of Student,

Rayat Shikshan Sanstha's

D. P. Bhosale College, Koregaon

Department of Microbiology

Short Term Course On,

"Microbial Quality control in Industries"

Feedback Form

Name of the student: Bhosale Shravani Shailesh

Class: Ty bsc - microbiology

Mobile No: 7058185492

1. Content of the Course

i) Excellent ii) Very Good iii) Good iv) Poor

2. Guest Lecturers knowledge

i) Excellent ii) Very Good iii) Good iv) Poor

3. Interaction of the resource persons

i) Excellent ii) Very Good iii) Good iv) Poor

4. Overall organization of the Course

i) Excellent ii) Very Good iii) Good iv) Poor

Any other Suggestions:

No any suggestion.

Signature of Student,

Rayat Shikshan Sanstha's

D. P. Bhosale College, Koregaon

Department of Microbiology

Short Term Course On,

"Microbial Quality control in Industries"

Feedback Form

Name of the student: Inamdar Sahil Amis

Class: TY BSC (Micro)

Mobile No: 8317247972

1. Content of the Course

i) Excellent ii) Very Good iii) Good iv) Poor

2. Guest Lecturers knowledge

i) Excellent ii) Very Good iii) Good iv) Poor

3. Interaction of the resource persons

i) Excellent ii) Very Good iii) Good iv) Poor

4. Overall organization of the Course

i) Excellent ii) Very Good iii) Good iv) Poor

Any other Suggestions:

No suggestions

Inamdar
Signature of Student,

Rayat Shikshan Sanstha's

D. P. Bhosale College, Koregaon

Department of Microbiology

Short Term Course On,

"Microbial Quality control in Industries"

Feedback Form

Name of the student: Gole Mayur Dinkar

Class: TY.Bsc

Mobile No: 8830675514

1. Content of the Course

i) Excellent ii) Very Good iii) Good iv) Poor

2. Guest Lecturers knowledge

i) Excellent ii) Very Good iii) Good iv) Poor


3. Interaction of the resource persons

i) Excellent ii) Very Good iii) Good iv) Poor

4. Overall organization of the Course

i) Excellent ii) Very Good iii) Good iv) Poor

Any other Suggestions:


Signature of Student,

Rayat Shikshan Sanstha's

D. P. Bhosale College, Koregaon

Department of Microbiology

Short Term Course On,

"Microbial Quality control in Industries"

Feedback Form

Name of the student: Pratik Ajay Kadam

Class: T.Y. BSC

Mobile No: 9903651475

1. Content of the Course

i) Excellent ii) Very Good iii) Good iv) Poor

2. Guest Lecturers knowledge

i) Excellent ii) Very Good iii) Good iv) Poor


3. Interaction of the resource persons

i) Excellent ii) Very Good iii) Good iv) Poor

4. Overall organization of the Course

i) Excellent ii) Very Good iii) Good iv) Poor

Any other Suggestions:


Signature of Student,

Rayat Shikshan Sanstha's

D. P. Bhosale College, Koregaon

Department of Microbiology

Short Term Course On,

"Microbial Quality control in Industries"

Feedback Form

Name of the student: Kamble Srushti Manojkumar

Class: B.Sc. III

Mobile No: 8275367781

1. Content of the Course

i) Excellent ii) Very Good iii) Good iv) Poor

2. Guest Lecturers knowledge

i) Excellent ii) Very Good iii) Good iv) Poor

3. Interaction of the resource persons

i) Excellent ii) Very Good iii) Good iv) Poor

4. Overall organization of the Course

i) Excellent ii) Very Good iii) Good iv) Poor

Any other Suggestions:

No suggestion


Signature of Student,

Rayat Shikshan Sanstha's

D. P. Bhosale College, Koregaon

Department of Microbiology

Short Term Course On,

"Microbial Quality control in Industries"

Feedback Form

Name of the student: Mali Sujit Ashok

Class: T.Y B.Sc

Mobile No: 9075867540

1. Content of the Course

Excellent ii) Very Good iii) Good iv) Poor

2. Guest Lecturers knowledge

Excellent ii) Very Good iii) Good iv) Poor

3. Interaction of the resource persons


Excellent ii) Very Good iii) Good iv) Poor

4. Overall organization of the Course

Excellent ii) Very Good iii) Good iv) Poor

Any other Suggestions:

Very good :


Signature of Student,

Rayat Shikshan Sanstha's

D. P. Bhosale College, Koregaon

Department of Microbiology

Short Term Course On,

"Microbial Quality control in Industries"

Feedback Form

Name of the student: Mane Shubhada Dilip.

Class: TY. BSC.

Mobile No: 8830018824

1. Content of the Course

i) Excellent ii) Very Good iii) Good iv) Poor

2. Guest Lecturers knowledge

i) Excellent ii) Very Good iii) Good iv) Poor

3. Interaction of the resource persons

i) Excellent ii) Very Good iii) Good iv) Poor

4. Overall organization of the Course

i) Excellent ii) Very Good iii) Good iv) Poor

Any other Suggestions:

No Suggestions


Signature of Student,

Rayat Shikshan Sanstha's

D. P. Bhosale College, Koregaon

Department of Microbiology

Short Term Course On,

"Microbial Quality control in Industries"

Feedback Form

Name of the student: Tejas Shashikant Nikam

Class: TY. Bsc

Mobile No: 8180097546

1. Content of the Course

i) Excellent ii) Very Good iii) Good iv) Poor

2. Guest Lecturers knowledge

i) Excellent ii) Very Good iii) Good iv) Poor

3. Interaction of the resource persons


i) Excellent ii) Very Good iii) Good iv) Poor

4. Overall organization of the Course

i) Excellent ii) Very Good iii) Good iv) Poor

Any other Suggestions:

"No" suggestion


Signature of Student,

Rayat Shikshan Sanstha's

D. P. Bhosale College, Koregaon

Department of Microbiology

Short Term Course On,

"Microbial Quality control in Industries"

Feedback Form

Name of the student: Shivam Rajendra Sawant

Class: T.Y. BSc (Micro)

Mobile No: 8380056876

1. Content of the Course

i) Excellent ii) Very Good iii) Good iv) Poor

2. Guest Lecturers knowledge

i) Excellent ii) Very Good iii) Good iv) Poor

3. Interaction of the resource persons

i) Excellent ii) Very Good iii) Good iv) Poor

4. Overall organization of the Course

i) Excellent ii) Very Good iii) Good iv) Poor

Any other Suggestions:

No Suggestion.


Signature of Student,

Rayat Shikshan Sanstha's

D. P. Bhosale College, Koregaon

Department of Microbiology

Short Term Course On,

"Microbial Quality control in Industries"

Feedback Form

Name of the student: Pratik Subhash Yewale

Class: T.Y. BSC

Mobile No: 8308031656

1. Content of the Course

i) Excellent ii) Very Good iii) Good iv) Poor

2. Guest Lecturers knowledge

i) Excellent ii) Very Good iii) Good iv) Poor

3. Interaction of the resource persons

i) Excellent ii) Very Good iii) Good iv) Poor

4. Overall organization of the Course

i) Excellent ii) Very Good iii) Good iv) Poor

Any other Suggestions:

'No'

P. B. Yewale
Signature of Student,