



**Shri Shivaji Education Society's
Board for Higher Education Vidyanagar Karad.**



YASHWANTRAO CHAVAN COLLEGE OF SCIENCE, KARAD

DEPARTMENT OF MICROBIOLOGY

SHORT TERM COURSE

Industrial Quality Control Microbiology

2022-23

Index

Total Students: 40

Class: M. Sc. II

Duration: 3 Months

Sr. No.	Documents
1	Notice
2	Student Enrolment
3	Timetable
4	QP Theory and Practical
5	Mark List
6	CO Attainment
7	Attendance
8	Certificate



**YASHWANTRAO CHAVAN COLLEGE OF SCIENCE,
KARAD.**

Department of Microbiology

2022-23

NOTICE

Date: 15/11/2022

All the Students of the M. Sc. II are hereby informed that the Department of Microbiology is going to run a short-term course entitled as “**Industrial Quality Control Microbiology**” Interested Candidates enrol their names to Miss K. A. Yadav, course Co-ordinator on or before 30th November 2022.

K. A. Yadav

Course Co-ordinator

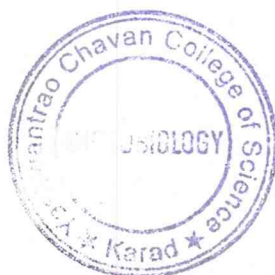
[Signature]

Head

Department of Microbiology

HEAD

DEPARTMENT OF MICROBIOLOGY



II Be One with the downtrodden and the underprivileged II
Shri Shivaji Education Society Karad, Board For Higher Education's

YASHWANTRAO CHAVAN COLLEGE OF SCIENCE, KARAD

Vidyanagar, KARAD - 415 124 Dist. Satara (Maharashtra)

Hon. Yashwantrao Chavansaheb
Founder

02164 - 271356, 271357 e-mail : prinyccsk@gmail.com website : www.yccskarad.com

Hon. P. D. Patilsaheb
President up to 17th September 2008



UDISE Code - 27310207715 Index No. - J 21.02.002

Reaccredited B⁺⁺ Level by NAAC, Bangalore
AN ISO 9001-2015 CERTIFIED COLLEGE REG. NO. : RQ91/5237

Dr. Suryakant Babu Kengar
Principal

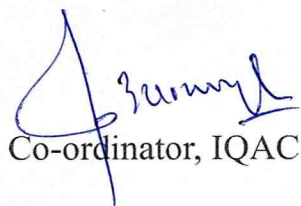
Hon. Shamrao Alias Balasaheb Pandurang Patil
President,
Shri Shivaji Education Society's, Board for Higher Education, Karad

Hon. Altafhusen Nasiruddin Mulla
General Secretary,
Shri Shivaji Education Society's, Board for Higher Education, Karad

Date: - 01/08/2022

As per the decision made in the CDC and IQAC, a BOS in Microbiology compositions is as follows,

BOS in Microbiology			
No.	Name	Designation	Member Category
1	Dr. J. U. Patil	Assistant Professor and Head of the Department Microbiology, Yashwantrao Chavan College of Science, Karad	BoS Chairman
2	Dr. D. B. Jadhav	Assistant Professor, K. N. Bhise Arts, Commerce and Vinayakrao Patil Science College, Kurduwadi, Solapur	External Member
3	Dr. P. P. Loni	Senior Scientist and Techno commercial head, Yabam International, T19 Towers, Raniganj, Hyderabad-500003	Industry Member
4	Mr. S. B. Malawade	QC Executive, Raptakos Brett and Company Ltd. Karad	Alumni Member
5	Mr. Raut A. A.	Assistant Professor, Department of Microbiology, Yashwantrao Chavan College of Science, Karad	Internal Member
6	Miss. Yadav K.A.	Assistant Professor Department of Microbiology, Yashwantrao Chavan College of Science, Karad	Internal Member


Co-ordinator, IQAC




Principal,
Yashwantrao Chavan College of Science,
Karad

YASHWANTRAO CHAVAN COLLEGE OF SCIENCE, KARAD**Hon. Yashwantrao Chavansaheb**
Founder

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**Hon. P. D. Patilsaheb**
President up to 17th September 2008**Dr. Suryakant Babu Kengar**
Principal**Hon. Shamrao Alias Balasaheb Pandurang Patil**President,
Shri Shivaji Education Society's, Board for Higher Education, Karad**Hon. Altafhusen Nasiruddin Mulla**General Secretary,
Shri Shivaji Education Society's, Board for Higher Education, Karad

Ref. 13 TB/2022-23

Date: 04/08/2022

To,
Dr. D. B. Jadhav,
 Assistant Professor, K. N. Bhise
 Arts, Commerce and Vinayakrao Patil Science College,
 Kurduwadi, Solapur

**Subject: Appointment as a Member on the Board of Studies in
 Microbiology.**

Respected Sir,

The IQAC and CDC of the college are pleased to appoint you as a member of the Board of Studies in Microbiology for five years from August 1, 2022, under the category of the **External Expert** as specified in the college IQAC guidelines for framing and finalizing college-level short-term and value-added courses conducted or proposed by the department.

I have no doubt that your depth of knowledge in the field along with your years of teaching experience will enhance our academic endeavours and assist students in fulfilling modern requirements.

Thanking You.



Yours Sincerely,

Principal

Yashwantrao Chavan College
of Science, Karad.



Hon. Yashwantrao Chavansaheb
Founder

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Hon. Shamrao Alias Balasaheb Pandurang Patil
President,
Shri Shivaji Education Society's, Board for Higher Education, Karad

Hon. Altafhusen Nasiruddin Mulla
General Secretary,
Shri Shivaji Education Society's, Board for Higher Education, Karad

Ref. 1378/2022-23

Date: 04/08/2022

To,

Dr. P. P. Loni

Senior Scientist and Techno Commercial Head,
Yabam International, T19 Towers, Raniganj,
Hyderabad-500003

Subject: Appointment as a Member of the Board of Studies in Microbiology.

Respected Sir,

The IQAC and CDC of the college are pleased to appoint you as a member of the Board of Studies in Microbiology for five years from August 1, 2022, under the category of the **Industrial Expert** as specified in the college IQAC guidelines for framing and finalizing college-level short-term and value-added courses conducted or proposed by the department.

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Thanking You.



Yours Sincerely,

Principal
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Dr. Suryakant Babu Kengar
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Hon. Shamrao Alias Balasaheb Pandurang Patil

President,
Shri Shivaji Education Society's, Board for Higher Education, Karad

MLA

Hon. Altafhusen Nasiruddin Mulla

General Secretary,
Shri Shivaji Education Society's, Board for Higher Education, Karad

General Secretary,

Ref. 137B/2022-23

Date: 04/08/2022

To,

Mr. S. B. Malavade

QC Executive, Raptakos Brett, and Company Ltd. Karad

Subject: Appointment as a Member on the Board of Studies in Microbiology.

Respected Sir,

The IQAC and CDC of the college are pleased to appoint you as a member of the Board of Studies in Microbiology for five years from August 1, 2022, under the category of the **Alumni Member** as specified in the college IQAC guidelines for framing and finalizing college-level short-term and value-added courses conducted or proposed by the department.

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Yours Sincerely,

Principal
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President,
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Hon. Altafhusen Nasiruddin Mulla
General Secretary,
Shri Shivaji Education Society's, Board for Higher Education, Karad

Ref. No. 137B/2022-23

Date:- 04/08/2022

To prepare the short-term course for B.Sc. II Microbiology, the following syllabus sub-committee is framed. Prepare the syllabus within one month and submit it to the Head, Department of Microbiology, Yashwantrao Chavan College of Science, Karad.

For B.Sc. II Microbiology Short term Course		
No.	Name	Designation
1.	Dr. J. U. Patil	Chairman
2.	Dr. A. A. Raut	Member
3.	Miss. K. A. Yadav	Member
4.	Mr. K. A. Sutar	Member

Co-ordinator, IQAC



Principal
Yashwantrao Chavan College
of Science, Karad.



Hon. Yashwantrao Chavansaheb
Founder

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Dr. Suryakant Babu Kengar
Principal

Hon. Shamrao Alias Balasaheb Pandurang Patil
President, **MLA**

Shri Shivaji Education Society's, Board for Higher Education, Karad

Hon. Altafhusen Nasiruddin Mulla

General Secretary,
Shri Shivaji Education Society's, Board for Higher Education, Karad

Ref. No. /212/2022-23

Date: 09 /09 /2022

To,
Dr. D. B. Jadhav,
Assistant Professor, K. N. Bhise
Arts, Commerce and Vinayakrao Patil Science College,
Kurduwadi, Solapur

Subject: Meeting of Board of Studies in Microbiology

Respected Sir,

The meeting of the Board of Studies in Microbiology will be on 12/09/2022, at 01:00 p.m. to prepare and complete the curriculum draft of the short-term course introduced for B.Sc. II class. The agenda is herewith for your consideration:

Agenda:

1. Discussion of the draft of the curriculum prepared by the Sub-Committee
2. Finalization of the syllabus with certain modifications
3. Finalization of the examination questions paper pattern, teaching methodology and study material

Kindly attend the meeting and do needful.

Thanking You.



Yours Sincerely,

Principal
Yashwantrao Chavan College
of Science, Karad.

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Dr. Suryakant Babu Kengar

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Hon. Shamrao Alias Balasaheb Pandurang Patil

President, **MLA**

Shri Shivaji Education Society's, Board for Higher Education, Karad

Hon. Altafhusen Nasiruddin Mulla

General Secretary,

Shri Shivaji Education Society's, Board for Higher Education, Karad

Ref. No. 12/2/2022-23

Date: 09/09/2022

To,

Dr. P. P. Loni

Senior Scientist and Techno commercial head,
Yabam International, T19 Towers, Raniganj,
Hyderabad-500003

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Yours Sincerely

(Signature)
Principal

Yashwantrao Chavan College
of Science, Karad.

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Hon. Yashwantrao Chavansaheb
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Dr. Suryakant Babu Kengar
Principal

Hon. Shamrao Alias Balasaheb Pandurang Patil

President, **MLA**

Shri Shivaji Education Society's, Board for Higher Education, Karad

Hon. Altafhusen Nasiruddin Mulla

General Secretary,

Shri Shivaji Education Society's, Board for Higher Education, Karad

Ref. No. 12/2/2022-23

Date: 09/09/2022

To,
Mr. S. B. Malavade
QC Executive, Raptakos Brett and Company Ltd. Karad

Subject: Meeting of Board of Studies in Microbiology

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Thanking You.



Yours Sincerely,

Principal

Yashwantrao Chavan College
of Science, Karad.

Yashwantrao Chavan College of Science, Karad

Department of Microbiology

Meeting of Board of Studies in Microbiology

The meeting of the Board of Studies in Microbiology is appointed by the Principal of Yashwantrao Chavan College of Science, Karad and it was held on 12/09/2022 at 01:00 pm at Department of Microbiology.

The following Members were presents,

Dr. J. U. Patil, Dr. P. P. Loni, Dr. D. B. Jadhav, Mr. S. B. Malavade, Dr. A. A. Raut and Miss. K. A. Yadav

The Following members were absents,

Nil


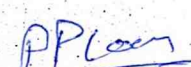
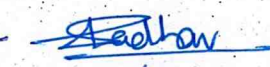
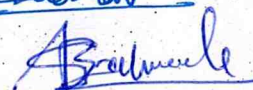


Meeting Proceedings

At the outset **Dr. J. U. Patil** welcomed the members to the meeting on behalf of the college and the department. Then she briefed the members about the short-term course for the B.Sc. II. Subsequently members discussed the details on the syllabi.

The following decision were taken,

- Draft Syllabus submitted by the subcommittee is finalized with minor modifications and approved.
- The question paper pattern of the examination is finalized and attached herewith.
- The teaching methodology of the course is finalized by BOS.
- The preparation of the study material is allotted to Miss. K. A. Yadav

The meeting ended with a vote of thanks by **Dr. A. A. Raut**

1. Dr. J. U. Patil - 
2. Dr. P. P. Loni - 
3. Dr. D. B. Jadhav - 
4. Mr. S. B. Malavade - 
5. Dr. A. A. Raut - 
6. Miss K. A. Yadav - 



YASHWANTRAO CHAVAV COLLEGE OF SCIENCE, KARAD

Department of Microbiology

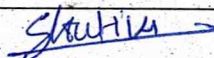



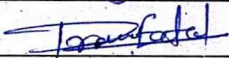
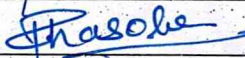

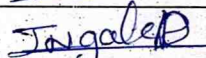
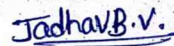
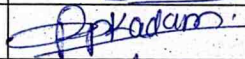
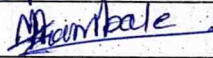
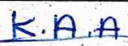
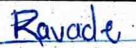
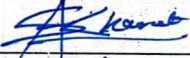

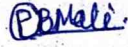
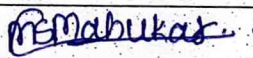

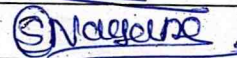
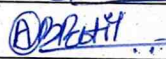
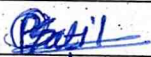
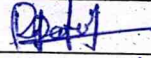
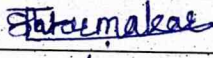

Short Term Course

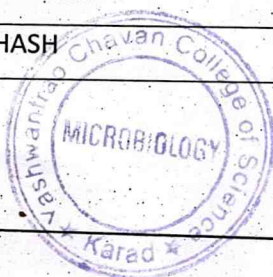
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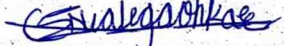


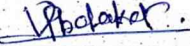
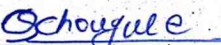
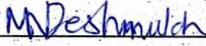
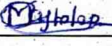
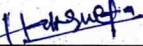

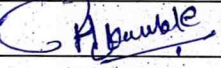
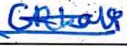

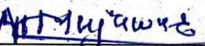
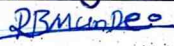

Year 2022 - 2023

Name of the Enrolled Students

Date: 2/12/2022

Roll no.	Name of Students	Signature
5001	AYARE SHRUTIKA UMESH	
5002	BHISE SAVITA BABAN	
5003	BUDHAWALE PRASHANT NAVNATH	
5004	CHAVAN GAYATRI SHIVANAND	
5005	ETAM PRANJAL PRAKASH	
5006	HASOLE PRASAD BAJARANG	
5007	HAWARE POOJA SHASHIKANT	
5008	INGALE DARSHAN DADASAHEB	
5009	JADHAV BHARATI VASANT	
5010	KADAM PRATHMESH PRAKASH	
5011	KAMBALE MAYURI ANANDA	
5012	KAMBLE ARUNDHATI AVINASH	
5013	KAVADE RADHIKA RAHUL	
5014	KHARAT SAMADHAN ANIL	
5015	MAGADUM PRATIKSHA MAHIPATI	
5016	MALI PRAGATI BHIMRAO	
5017	MALI SWAPNALI MADHUKAR	
5018	MULANI AYESHA MUSA	
5019	NAGANE SHIVANI DILIP	
5020	PATIL ABHAY BAJIRAO	
5021	PATIL PRAGATI SANJAY	
5022	PATIL PRIYANKA SHRIKANT	
5023	SATARMAKER TANJUM IBRAHIM	
5024	SHINDE TEJASWINI SUBHASH	



Roll no.	Name of Students	Signature
5025	SHINDE YUKTA YUVARAJ	
5026	WATEGAONKAR SWAPNALI NIVRUTTI	
5027	ADSUL RUSHIKESH SANJAY	
5028	AMBALE VAIBHAVI SAGAR	
5029	BELEKAR PRASAD VISHWANATH	
5030	CHOUGALE OMKAR SHASHIKANT	
5031	DESHKUMKH MANASI NARESH	
5032	GHOLAP MONALI ANIL	
5033	HAKE SHWETA NARENDRA	
5034	KAMBLE MRUNAL BABASO	
5035	KAMBLE MRUNALI BABURAV	
5036	KOLI GANESH RAJENDRA	
5037	KUMBHAR VIRESH VIJAY	
5038	MUJAWAR AIMAN TANVEER	
5039	MUNDE RAMESHWAR BALAJI	
5040	NADDAF JEENAT MAKASOOD	



Course Co-ordinator



HEAD
DEPARTMENT OF MICROBIOLOGY



YASHWANTRAO CHAVAV COLLEGE OF SCIENCE, KARAD

Department of Microbiology

Short Term Course

“Industrial Quality Control Microbiology”

Year 2022 - 2023

Date: 20 /11/2022

All the students who are enrolled their names for course of “**Industrial Quality Control Microbiology**” are hereby informed that their theory lecture is going to start from 4th Dec. 2022. All concerned should note and follow.

Course Co-ordinator

**HEAD
DEPARTMENT OF MICROBIOLOGY**

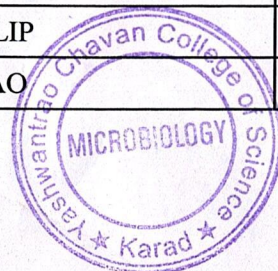


Yashwantrao Chavan College of Science, Karad
Department of Microbiology
2022-23

Certificate course in Industrial Quality Control and Management

Theory Attendance

Sr.No.	Name of the Student	04/12/22	06/12/22	10/12/22	11/12	12/12	02/01	03/01
1	AYARE SHRUTIKA UMESH	shrutika	shrutika	shrutika	shrutika	shrutika	shrutika	Ab
2	BHISE SAVITA BABAN	SB	SB	SB	SB	SB	Ab	SB
3	BUDHAWALE PRASHANT NAVNATH	Budhawale	Budhawale	Ab	Budhawale	Budhawale	Budhawale	Budhawale
4	CHAVAN GAYATRI SHIVANAND	Gehevan	Gehevan	Gehevan	Gehevan	Gehevan	Gehevan	Gehevan
5	ETAM PRANJAL PRAKASH	Pranjal	Pranjal	Pranjal	Ab	Pranjal	Pranjal	Ab
6	HASOLE PRASAD BAJARANG	Phasole	Phasole	Phasole	Phasole	Phasole	Phasole	Phasole
7	HAWARE POOJA SHASHIKANT	Pooja	Pooja	Pooja	Pooja	Pooja	Pooja	Pooja
8	INGALE DARSHAN DADASAHEB	INGale	INGale	INGale	INGale	INGale	INGale	Ab
9	JADHAV BHARATI VASANT	JadhavBV	JadhavBV	JadhavBV	JadhavBV	JadhavBV	JadhavBV	Ab
10	KADAM PRATHMESH PRAKASH	Ab	Pradham	Pradham	Pradham	Pradham	Ab	Pradham
11	KAMBALE MAYURI ANANDA	Mhantine	Mhantine	Mhantine	Mhantine	Mhantine	Mhantine	Mhantine
12	KAMBLE ARUNDHATI AVINASH	K.A.A	K.A.A	Ab	K.A.A	K.A.A	K.A.A	Ab
13	KAVADE RADHIKA RAHUL	Ab	Ravade	Ab	Ab	Ravade	Ab	Ravade
14	KHARAT SAMADHAN ANIL	Ashkar	Ab	Ashkar	Ashkar	Ashkar	Ashkar	Ashkar
15	MAGADUM PRATIKSHA MAHIPATI	Pragadum	Pragadum	Pragadum	Pragadum	Pragadum	Pragadum	Pragadum
16	MALI PRAGATI BHIMRAO	PBmali	PBmali	PBmali	PBmali	PBmali	PBmali	PBmali
17	MALI SWAPNALI MADHUKAR	Smadhkar	Ab	Smadhkar	Smadhkar	Smadhkar	Smadhkar	Smadhkar
18	MULANI AYESHA MUSA	Amulani	Amulani	Amulani	Amulani	Amulani	Amulani	Amulani
19	NAGANE SHIVANI DILIP	SNagane	SNagane	SNagane	SNagane	Ab	SNagane	SNagane
20	PATIL ABHAY BAJIRAO	APatil	APatil	APatil	APatil	APatil	APatil	



Yashwantrao Chavan College of Science, Karad

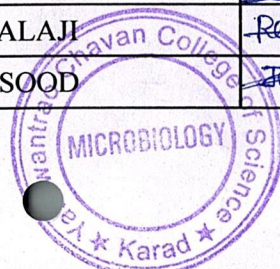
Department of Microbiology

2022-23

Certificate course in Industrial Quality Control and Management

Theory Attendance

Sr.No.	Name of the Student	04/12	06/12	10/12	11/12	12/12	2/01	03/01
21	PATIL PRAGATI SANJAY	Ppatil	Ab	Ppatil	Ppatil	Ppatil	Ppatil	Ppatil
22	PATIL PRIYANKA SHRIKANT	Ppatil	Ppatil	Ab	Ppatil	Ppatil	Ppatil	Ppatil
23	SATARMAKER TANJUM IBRAHIM	Starmaker	Starmaker	Starmaker	Ab	Starmaker	Starmaker	Starmaker
24	SHINDE TEJASWINI SUBHASH	Shinde	Ab	Shinde	Shinde	Shinde	Shinde	Shinde
25	SHINDE YUKTA YUVARAJ	Shinde	Shinde	Shinde	Shinde	Shinde	Shinde	Shinde
26	WATEGAONKAR SWAPNALI NIVRUTTI	Wategaonkar	Wategaonkar	Wategaonkar	Wategaonkar	Ab	Ab	Wategaonkar
27	ADSUL RUSHIKESH SANJAY	Rushi	Rushi	Rushi	Rushi	Rushi	Rushi	Rushi
28	AMBALE VAIBHAVI SAGAR	Amale	Amale	Amale	Amale	Amale	Amale	Amale
29	BELEKAR PRASAD VISHWANATH	Belekar	Belekar	Belekar	Belekar	Belekar	Belekar	Belekar
30	CHOUGALE OMKAR SHASHIKANT	Chougale	Chougale	Chougale	Chougale	Chougale	Chougale	Chougale
31	DESHKUMKH MANASI NARESH	Des	Des	Ab	Des	Des	Des	Des
32	GHOLAP MONALI ANIL	Mohale	Mohale	Mohale	Mohale	Mohale	Mohale	Ab
33	HAKE SHWETA NARENDRA	Hake	Hake	Hake	Hake	Hake	Hake	Hake
34	KAMBLE MRUNAL BABASO	Kamble	Kamble	Kamble	Kamble	Kamble	Kamble	Kamble
35	KAMBLE MRUNALI BABURAV	Kamble	Kamble	Kamble	Kamble	Kamble	Kamble	Kamble
36	KOLI GANESH RAJENDRA	Koli	Koli	Koli	Koli	Koli	Koli	Koli
37	KUMBHAR VIRESH VIJAY	Kumbhar	Kumbhar	Kumbhar	Kumbhar	Kumbhar	Kumbhar	Kumbhar
38	MUJAWAR AIMAN TANVEER	Aiman	Aiman	Aiman	Aiman	Aiman	Aiman	Aiman
39	MUNDE RAMESHWAR BALAJI	Rameshwar	Rameshwar	Rameshwar	Rameshwar	Rameshwar	Rameshwar	Rameshwar
40	NADDAF JEENAT MAKASOOD	Jeenath	Jeenath	Jeenath	Jeenath	Jeenath	Jeenath	Jeenath

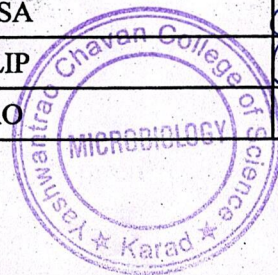


Yashwantrao Chavan College of Science, Karad
Department of Microbiology

2022-23

Certificate course in Industrial Quality Control and Management
Theory Attendance

Sr.No.	Name of the Student	07/01/23	09/01/23	10/01/23	14/01/23	16/01	17/01	21/01
1	AYARE SHRUTIKA UMESH	<u>Shrutika</u>	<u>Shrutika</u>	<u>Shrutika</u>	Ab	<u>Shrutika</u>	<u>Shrutika</u>	<u>Shrutika</u>
2	BHISE SAVITA BABAN	<u>SB</u>	<u>SB</u>	<u>SB</u>	<u>SB</u>	<u>SB</u>	<u>SB</u>	<u>SB</u>
3	BUDHAWALE PRASHANT NAVNATH	<u>Budhawale</u>	<u>Budhawale</u>	<u>Budhawale</u>	<u>Budhawale</u>	Ab	<u>Budhawale</u>	<u>Budhawale</u>
4	CHAVAN GAYATRI SHIVANAND	<u>Gayatri</u>	<u>Gayatri</u>	<u>Gayatri</u>	Ab	<u>Gayatri</u>	<u>Gayatri</u>	<u>Gayatri</u>
5	ETAM PRANJAL PRAKASH	<u>Pranj</u>	<u>Pranj</u>	<u>Pranj</u>	Ab	<u>Pranj</u>	<u>Pranj</u>	<u>Pranj</u>
6	HASOLE PRASAD BAJARANG	<u>Prasole</u>	<u>Prasole</u>	<u>Prasole</u>	<u>Prasole</u>	<u>Prasole</u>	<u>Prasole</u>	<u>Prasole</u>
7	HAWARE POOJA SHASHIKANT	<u>Pooja</u>	<u>Pooja</u>	<u>Pooja</u>	<u>Pooja</u>	<u>Pooja</u>	<u>Pooja</u>	Ab
8	INGALE DARSHAN DADASAHEB	<u>INGale</u>	<u>INGale</u>	<u>INGale</u>	<u>INGale</u>	Ab	<u>INGale</u>	<u>INGale</u>
9	JADHAV BHARATI VASANT	<u>Jadhav B.V.</u>	<u>Jadhav B.V.</u>	<u>Jadhav B.V.</u>	<u>Jadhav B.V.</u>	<u>Jadhav B.V.</u>	<u>Jadhav B.V.</u>	<u>Jadhav B.V.</u>
10	KADAM PRATHMESH PRAKASH	<u>Prathmesh</u>	<u>Prathmesh</u>	<u>Prathmesh</u>	Ab	Ab	<u>Prathmesh</u>	<u>Prathmesh</u>
11	KAMBALE MAYURI ANANDA	<u>Mhuratne</u>	<u>Mhuratne</u>	<u>Mhuratne</u>	<u>Mhuratne</u>	<u>Mhuratne</u>	<u>Mhuratne</u>	<u>Mhuratne</u>
12	KAMBLE ARUNDHATI AVINASH	<u>K.A.A.</u>	<u>K.A.A.</u>	<u>K.A.A.</u>	<u>K.A.A.</u>	<u>K.A.A.</u>	<u>K.A.A.</u>	<u>K.A.A.</u>
13	KAVADE RADHIKA RAHUL	<u>Kavade</u>	<u>Kavade</u>	<u>Kavade</u>	<u>Kavade</u>	<u>Kavade</u>	<u>Kavade</u>	<u>Kavade</u>
14	KHARAT SAMADHAN ANIL	<u>Askhonet</u>	<u>Askhonet</u>	<u>Askhonet</u>	<u>Askhonet</u>	<u>Askhonet</u>	<u>Askhonet</u>	<u>Askhonet</u>
15	MAGADUM PRATIKSHA MAHIPATI	<u>Pragadum</u>	<u>Pragadum</u>	<u>Pragadum</u>	<u>Pragadum</u>	<u>Pragadum</u>	<u>Pragadum</u>	<u>Pragadum</u>
16	MALI PRAGATI BHIMRAO	<u>PBmali</u>	<u>PBmali</u>	Ab	<u>PBmali</u>	<u>PBmali</u>	<u>PBmali</u>	<u>PBmali</u>
17	MALI SWAPNALI MADHUKAR	<u>Smadhukar</u>	<u>Smadhukar</u>	<u>Smadhukar</u>	Ab	<u>Smadhukar</u>	<u>Smadhukar</u>	<u>Smadhukar</u>
18	MULANI AYESHA MUSA	<u>Amulani</u>	<u>Amulani</u>	<u>Amulani</u>	Ab	<u>Amulani</u>	<u>Amulani</u>	<u>Amulani</u>
19	NAGANE SHIVANI DILIP	<u>SNagane</u>	<u>SNagane</u>	<u>SNagane</u>	<u>SNagane</u>	<u>SNagane</u>	<u>SNagane</u>	<u>SNagane</u>
20	PATIL ABHAY BAJIRAO	<u>Apatil</u>	<u>Apatil</u>	<u>Apatil</u>	<u>Apatil</u>	Ab	<u>Apatil</u>	<u>Apatil</u>



Yashwantrao Chavan College of Science, Karad

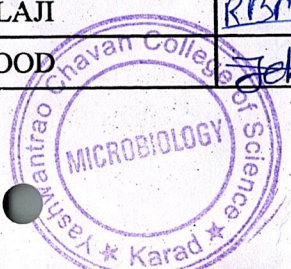
Department of Microbiology

2022-23

Certificate course in Industrial Quality Control and Management

Theory Attendance

Sr.No.	Name of the Student	07/01	09/01	10/01	14/01	16/01	17/01	21/01
21	PATIL PRAGATI SANJAY	Ppatil	Ppatil	Ab	Ppatil	Ppatil	Ppatil	Ppatil
22	PATIL PRIYANKA SHRIKANT	Pati	Pati	Pati	Pati	Ab	Pati	Pati
23	SATARMAKER TANJUM IBRAHIM	Starmaker	Starmaker	Ab	Starmaker	Starmaker	Starmaker	Starmaker
24	SHINDE TEJASWINI SUBHASH	Shinde	Shinde	Shinde	Shinde	Ab	Shinde	Shinde
25	SHINDE YUKTA YUVARAJ	Shinde	Shinde	Shinde	Ab	Shinde	Shinde	Shinde
26	WATEGAONKAR SWAPNALI NIVRUTTI	Wategaonkar	Wategaonkar	Ab	Wategaonkar	Wategaonkar	Wategaonkar	Ab
27	ADSUL RUSHIKESH SANJAY	Rushi	Rushi	Rushi	Rushi	Rushi	Rushi	Rushi
28	AMBALE VAIBHAVI SAGAR	Amble	Amble	Amble	Amble	Amble	Ab	Amble
29	BELEKAR PRASAD VISHWANATH	Vbelekar	Vbelekar	Vbelekar	Vbelekar	Vbelekar	Vbelekar	Vbelekar
30	CHOUGALE OMKAR SHASHIKANT	Chougale	Chougale	Chougale	Chougale	Chougale	Ab	Ab
31	DESHKUMKH MANASI NARESH	Deskhumkar	Deskhumkar	Deskhumkar	Deskhumkar	Ab	Deskhumkar	Deskhumkar
32	GHOLAP MONALI ANIL	Mahale	Mahale	Mahale	Mahale	Mahale	Mahale	Mahale
33	HAKE SHWETA NARENDRA	Hake	Hake	Hake	Hake	Hake	Hake	Hake
34	KAMBLE MRUNAL BABASO	Kamble	Kamble	Kamble	Kamble	Kamble	Ab	Ab
35	KAMBLE MRUNALI BABURAV	Kamble	Kamble	Kamble	Ab	Kamble	Kamble	Kamble
36	KOLI GANESH RAJENDRA	Koli	Koli	Koli	Koli	Koli	Koli	Koli
37	KUMBHAR VIRESH VIJAY	Kumbhar	Kumbhar	Kumbhar	Kumbhar	Kumbhar	Kumbhar	Kumbhar
38	MUJAWAR AIMAN TANVEER	Aiman	Aiman	Aiman	Aiman	Aiman	Aiman	Ab
39	MUNDE RAMESHWAR BALAJI	RBMunde	RBMunde	RBMunde	Ab	RBMunde	RBMunde	RBMunde
40	NADDAF JEENAT MAKASOOD	Jechol	Jechol	Jechol	Jechol	Jechol	Jechol	Jechol



Yashwantrao Chavan College of Science, Karad

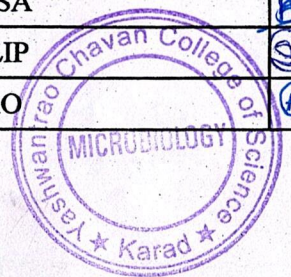
Department of Microbiology

2022-23

Certificate course in Industrial Quality Control and Management

Theory Attendance

Sr.No.	Name of the Student	27/01	28/01	29/01	30/01	31/01	04/02	06/02
1	AYARE SHRUTIKA UMESH	<u>shrutika</u>	<u>shrutika</u>	<u>shrutika</u>	<u>shrutika</u>	<u>shrutika</u>	<u>shrutika</u>	<u>shrutika</u>
2	BHISE SAVITA BABAN	<u>SB</u>	<u>SB</u>	<u>SB</u>	<u>SB</u>	<u>SB</u>	<u>SB</u>	<u>SB</u>
3	BUDHAWALE PRASHANT NAVNATH	<u>Budhawal</u>	<u>Budhawal</u>	<u>Budhawal</u>	<u>Budhawal</u>	<u>Budhawal</u>	<u>Budhawal</u>	<u>Budhawal</u>
4	CHAVAN GAYATRI SHIVANAND	<u>Geesham</u>	<u>Geesham</u>	<u>Geesham</u>	<u>Geesham</u>	<u>Geesham</u>	<u>Geesham</u>	<u>Geesham</u>
5	ETAM PRANJAL PRAKASH	<u>Pranj</u>	<u>Pranj</u>	Ab	<u>Pranj</u>	<u>Pranj</u>	<u>Pranj</u>	Ab
6	HASOLE PRASAD BAJARANG	<u>Prasole</u>	<u>Prasole</u>	<u>Prasole</u>	Ab	<u>Prasole</u>	<u>Prasole</u>	<u>Prasole</u>
7	HAWARE POOJA SHASHIKANT	<u>Pooja</u>	<u>Pooja</u>	<u>Pooja</u>	Ab	<u>Pooja</u>	<u>Pooja</u>	<u>Pooja</u>
8	INGALE DARSHAN DADASAHEB	<u>INGale</u>	<u>INGale</u>	<u>INGale</u>	<u>INGale</u>	Ab	<u>INGale</u>	<u>INGale</u>
9	JADHAV BHARATI VASANT	<u>Jadhav.B.V</u>	<u>Jadhav.B.V</u>	Ab	<u>Jadhav.B.V</u>	<u>Jadhav.B.V</u>	<u>Jadhav.B.V</u>	<u>Jadhav.B.V</u>
10	KADAM PRATHMESH PRAKASH	<u>Pratham</u>	Ab	<u>Pratham</u>	<u>Pratham</u>	<u>Pratham</u>	<u>Pratham</u>	Ab
11	KAMBALE MAYURI ANANDA	<u>Mkambl</u>	<u>Mkambl</u>	Ab	<u>Mkambl</u>	<u>Mkambl</u>	<u>Mkambl</u>	Ab
12	KAMBLE ARUNDHATI AVINASH	<u>K.A.A.</u>	<u>K.A.A.</u>	<u>K.A.A.</u>	<u>K.A.A.</u>	<u>K.A.A.</u>	<u>K.A.A.</u>	<u>K.A.A.</u>
13	KAVADE RADHIKA RAHUL	<u>Ravde</u>	<u>Ravde</u>	Ab	Ab	<u>Ravde</u>	Ab	<u>Ravde</u>
14	KHARAT SAMADHAN ANIL	<u>Askhant</u>	<u>Askhant</u>	<u>Askhant</u>	<u>Askhant</u>	<u>Askhant</u>	<u>Askhant</u>	<u>Askhant</u>
15	MAGADUM PRATIKSHA MAHIPATI	<u>Pragadum</u>	<u>Pragadum</u>	<u>Pragadum</u>	<u>Pragadum</u>	Ab	<u>Pragadum</u>	<u>Pragadum</u>
16	MALI PRAGATI BHIMRAO	<u>PBmali</u>	<u>PBmali</u>	<u>PBmali</u>	<u>PBmali</u>	<u>PBmali</u>	Ab	<u>PBmali</u>
17	MALI SWAPNALI MADHUKAR	<u>Smadhkar</u>	<u>Smadhkar</u>	<u>Smadhkar</u>	Ab	<u>Smadhkar</u>	<u>Smadhkar</u>	<u>Smadhkar</u>
18	MULANI AYESHA MUSA	<u>Bmullani</u>	<u>Bmullani</u>	<u>Bmullani</u>	<u>Bmullani</u>	<u>Bmullani</u>	<u>Bmullani</u>	<u>Bmullani</u>
19	NAGANE SHIVANI DILIP	<u>Shivane</u>	<u>Shivane</u>	<u>Shivane</u>	Ab	<u>Shivane</u>	<u>Shivane</u>	<u>Shivane</u>
20	PATIL ABHAY BAJRAO	<u>Apatil</u>	<u>Apatil</u>	<u>Apatil</u>	Ab	<u>Apatil</u>	<u>Apatil</u>	<u>Apatil</u>



Yashwantrao Chavan College of Science, Karad
Department of Microbiology
2022-23

Certificate course in Industrial Quality Control and Management
Theory Attendance

Sr.No.	Name of the Student	27/01	28/01	28/01	30/01	31/01	04/02	06/02/23
21	PATIL PRAGATI SANJAY	Patil	Patil	Patil	Patil	Patil	Patil	Patil
22	PATIL PRIYANKA SHRIKANT	Patil	Patil	Patil	Patil	Patil	Patil	Patil
23	SATARMAKER TANJUM IBRAHIM	Starmaker	Starmaker	Starmaker	Starmaker	Starmaker	Starmaker	Ab
24	SHINDE TEJASWINI SUBHASH	Shinde	Shinde	Shinde	Shinde	Shinde	Ab	Shinde.
25	SHINDE YUKTA YUVARAJ	Shinde	Shinde	Shinde	Shinde	Shinde	Shinde	Shinde
26	WATEGAONKAR SWAPNALI NIVRUTTI	Cernal	Cernal	Cernal	Ab	Cernal	Cernal	Ab
27	ADSUL RUSHIKESH SANJAY	Rushi	Rushi	Rushi	Rushi	Rushi	Rushi	Rushi.
28	AMBALE VAIBHAVI SAGAR	Camble	Camble	Camble	Camble	Ab	Camble	Camble
29	BELEKAR PRASAD VISHWANATH	Vbelekara	Vbelekara	Vbelekara	Vbelekara	Vbelekara	Vbelekara	Vbelekara
30	CHOUGALE OMKAR SHASHIKANT	Chougale	Ab	Chougale	Chougale	Ab	Chougale	Chougale
31	DESHKUMKH MANASI NARESH	Mashok	Mashok	Ab	Mashok	Mashok	Ab	Mashok
32	GHOLAP MONALI ANIL	Mashok	Mashok	Mashok	Ab	Mashok	Mashok	Mashok
33	HAKHARE SHWETA NARENDRA	Hakshare	Hakshare	Hakshare	Hakshare	Ab	Hakshare	Hakshare
34	KAMBLE MRUNAL BABASO	Mkamble	Mkamble	Mkamble	Mkamble	Mkamble	Ab	Mkamble
35	KAMBLE MRUNALI BABURAV	Mkamble	Mkamble	Mkamble	Mkamble	Mkamble	Mkamble	Mkamble
36	KOLI GANESH RAJENDRA	Kumbhar	Kumbhar	Kumbhar	Kumbhar	Kumbhar	Kumbhar	Kumbhar
37	KUMBHAR VIRESH VIJAY	Kumbhar	Kumbhar	Kumbhar	Kumbhar	Kumbhar	Kumbhar	Kumbhar
38	MUJAWAR AIMAN TANVEER	Aimam	Aimam	Ab	Aimam	Aimam	Ab	Aimam
39	MUNDE RAMESHWAR BALAJI	RBmunde	RBmunde	Ab	RBmunde	RBmunde	RBmunde	RBmunde
40	NADDAF JEENAT MAKASOOD	Zoshke	Zoshke	Zoshke	Zoshke	Zoshke	Ab	Zoshke



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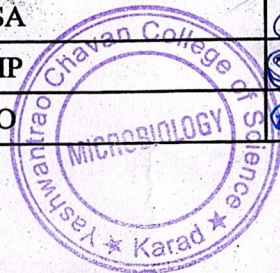
Department of Microbiology

2022-23

Certificate course in Industrial Quality Control and Management

Theory Attendance

Sr.No.	Name of the Student	7/02	8/02	09/02	10/02	99/02	12/02	18/02
1	AYARE SHRUTIKA UMESH	shrutika	shrutika	shrutika	Ab	shrutika	shrutika	shrutika
2	BHISE SAVITA BABAN	SB	SB	SB	SB	SB	SB	SB
3	BUDHAWALE PRASHANT NAVNATH	Budhawale	Budhawale	Budhawale	Budhawale	Budhawale	Ab	Budhawale
4	CHAVAN GAYATRI SHIVANAND	Gehavn	Gehavn	Gehavn	Gehavn	Gehavn	Gehavn	Ab
5	ETAM PRANJAL PRAKASH	Prayal	Prayal	Ab	Prayal	Prayal	Prayal	Ab
6	HASOLE PRASAD BAJARANG	Phasole	Phasole	Phasole	Phasole	Ab	Phasole	Phasole
7	HAWARE POOJA SHASHIKANT	Pooja	Pooja	Pooja	Pooja	Pooja	Pooja	Pooja
8	INGALE DARSHAN DADASAHEB	ingale	ingale	ingale	Ab	ingale	ingale	ingale
9	JADHAV BHARATI VASANT	JadhavBV	JadhavBV	JadhavBV	JadhavBV	Ab	JadhavBV	JadhavBV
10	KADAM PRATHMESH PRAKASH	Prkadam	Prkadam	Prkadam	Prkadam	Prkadam	Prkadam	Prkadam
11	KAMBALE MAYURI ANANDA	Mhathne	Mhathne	Mhathne	Mhathne	Mhathne	Mhathne	Ab
12	KAMBLE ARUNDHATI AVINASH	KAA	KAA	Ab	KAA	KAA	KAA	KAA
13	KAVADE RADHIKA RAHUL	Ab	Radhika	Ab	Ab	Radhika	Ab	Ab
14	KHARAT SAMADHAN ANIL	Askhant	Askhant	Askhant	Askhant	Askhant	Ab	Askhant
15	MAGADUM PRATIKSHA MAHIPATI	Prmagadum	Ab	Prmagadum	Prmagadum	Ab	Prmagadum	Prmagadum
16	MALI PRAGATI BHIMRAO	Prmali	Prmali	Prmali	Prmali	Ab	Prmali	Prmali
17	MALI SWAPNALI MADHUKAR	Prmadhukar	Ab	Prmadhukar	Prmadhukar	Prmadhukar	Prmadhukar	Prmadhukar
18	MULANI AYESHA MUSA	Prmulani	Prmulani	Ab	Prmulani	Prmulani	Prmulani	Prmulani
19	NAGANE SHIVANI DILIP	PrNagane	Ab	PrNagane	PrNagane	PrNagane	PrNagane	PrNagane
20	PATIL ABHAY BAJRAO	Prpatil	Prpatil	Prpatil	Prpatil	Prpatil	Ab	Prpatil



Yashwantrao Chavan College of Science, Karad

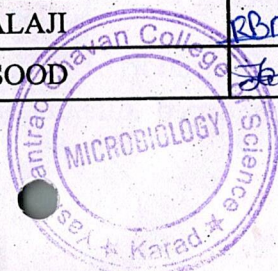
Department of Microbiology

2022-23

Certificate course in Industrial Quality Control and Management

Theory Attendance

Sr.No.	Name of the Student	07/02	08/02	09/02	10/02	11/02	12/02	18/02
21	PATIL PRAGATI SANJAY	Ppatil	Ppatil	Ab	Ppatil	Ppatil	Ppatil	Ppatil
22	PATIL PRIYANKA SHRIKANT	Ppatil	Ab	Ppatil	Ppatil	Ppatil	Ppatil	Ppatil
23	SATARMAKER TANJUM IBRAHIM	Starmarker	Starmarker	Starmarker	Starmarker	Starmarker	Starmarker	Ab
24	SHINDE TEJASWINI SUBHASH	Shinde	Shinde	Ab	Shinde	Shinde	Shinde	Shinde
25	SHINDE YUKTA YUVARAJ	Shinde	Shinde	Ab	Shinde	Shinde	Shinde	Shinde
26	WATEGAONKAR SWAPNALI NIVRUTTI	Swat	Swat	Ab	Swat	Swat	Swat	Ab
27	ADSUL RUSHIKESH SANJAY	Rushi	Rushi	Rushi	Rushi	Rushi	Rushi	Rushi
28	AMBALE VAIBHAVI SAGAR	Ambale	Ambale	Ambale	Ab	Ambale	Ambale	Ambale
29	BELEKAR PRASAD VISHWANATH	Belekar	Belekar	Belekar	Belekar	Belekar	Belekar	Belekar
30	CHOUGALE OMKAR SHASHIKANT	Chougale	Chougale	Chougale	Chougale	Chougale	Chougale	Ab
31	DESHKUMKH MANASI NARESH	Deshkumkh	Deshkumkh	Deshkumkh	Deshkumkh	Deshkumkh	Deshkumkh	Deshkumkh
32	GHOLAP MONALI ANIL	Mahale	Mahale	Mahale	Mahale	Ab	Mahale	Mahale
33	HAKE SHWETA NARENDRA	Hake	Hake	Hake	Hake	Hake	Hake	Hake
34	KAMBLE MRUNAL BABASO	Kamble	Kamble	Kamble	Kamble	Ab	Kamble	Kamble
35	KAMBLE MRUNALI BABURAV	Kamble	Kamble	Kamble	Kamble	Ab	Kamble	Kamble
36	KOLI GANESH RAJENDRA	Koli	Koli	Koli	Koli	Koli	Koli	Koli
37	KUMBHAR VIRESH VIJAY	Kumbhar	Kumbhar	Kumbhar	Kumbhar	Kumbhar	Kumbhar	Kumbhar
38	MUJAWAR AIMAN TANVEER	Aiman	Aiman	Aiman	Ab	Aiman	Aiman	Ab
39	MUNDE RAMESHWAR BALAJI	RMunde	RMunde	RMunde	Ab	RMunde	RMunde	RMunde
40	NADDAF JEENAT MAKASOOD	Jadav	Jadav	Jadav	Jadav	Ab	Jadav	Jadav



Seat No.:

Name of student:

Yashwantrao Chavan College of Science, Karad
Department of Microbiology
2022-23

Paper: Industrial Quality Control Microbiology

Day and Date – Monday 13/03/2023

Total marks- 40

Time 10:30 a.m. to 11:30 a.m.

1. Biosafety have strictest methods because dealing with agents that are most dangerous to human health

- (a) Level 1 labs (c) Level 2 labs
(b) Level 3 labs (d) Level 4 labs

2. Which of the following agents with potential for respiratory transmission may cause serious and potentially lethal infection May be studied at BSL-2 for diagnosis

- (a) Encephalitis virus (c) Hepatitis
(b) Bacillus (d) Staphylococcus

3. Autoclaving is NOT used for sterilization of

- (a) Culture media (c) Cotton
(b) Paraffin (d) Rubber gloves

4. Which one of the following hospital waste is collected in BLUE bag.

- (a) Human anatomical waste (c) Needles, syringes
(b) Animal waste (d) Food, fruits, vegetables

5. The most frequently acquired laboratory infections are

- (a) Hepatitis (c) None of the above
(b) Tuberculosis (d) Both of the above

6. Quality control surveillance schedule for incubator is monitored

- (a) Daily (c) Monthly
(b) Weekly (d) With each use

7. Efficiency of HEPA filters are against 0.3 μm particles.

- (a) 99.97% (c) 55%
(b) 77% (d) 90.6%

8. Which of the following is not a test for Testing for HEPA filters?

- (a) Bacteria Hot DOP test (efficiency testing)
(b) Cold DOP test (integrity testing)
(c) Air flow resistance test
(d) Ame's Test

9. Incubation in an atmosphere with 5-10% CO_2 can be done in

- (a) Air tight jar (c) Incubator
(b) Candle jar (d) None of the above



10. In Kirby Bauer method for antimicrobial susceptibility testing, plates are inoculated by

- (a) Pour plate method
- (b) Swab method
- (c) Both
- (d) None

11. Environmental monitoring is not performed by which of the following organizations

- (a) Food and Drug Administration (FDA)
- (b) European Union (EU)
- (c) International Standards Organization (ISO)
- (d) All of the above

12. Transportation of stool specimen for *Vibrio cholerae* may be done in

- (a) Pike's media
- (b) Alkaline peptone water
- (c) 10% formalin
- (d) Amies media

13. For diagnosis of tuberculosis number of sputum samples examined are

- (a) Morning
- (b) Spot
- (c) Morning, Spot
- (d) Spot, Morning, Spot

14. Mycobacterium leprae are stained by

- (a) Gram's stain
- (b) ZN stain
- (c) Modified ZN stain
- (d) Albert stain

15. A room or environment in which you move the air by way of supply and return locations to control the airborne particle levels and temperature and humidity is called as

- a) Clean rooms
- b) Single rooms
- c) filtered rooms
- d) makeup rooms

16. Personnel Monitoring has to be performed ----- in a six months .

- a) Twice
- b) Once
- c) Daily
- d) Weekly

17. is useful in detecting significant deviations in air cleanliness from qualified processing classifications

- a) Drain monitoring
- b) Compressed Air monitoring
- c) Particle Counting
- d) Personnel Monitoring

18. Air velocity at the four corners & centre of HEPA filter can be measured by using

- a) Anemometer
- b) Galvanometer
- c) Seismometer
- d) Speedometer

19. Incubation in an atmosphere with 5-10% CO₂ can be done in

- (a) Air tight jar
- (b) Candle jar
- (c) Incubator
- (d) None of the above

20. Sterilization hold time at 160° C for hot air oven is

- (a) 60 minutes
- (b) 40 minutes
- (c) 20 minutes
- (d) None



YASHWANTRAO CHAVAN COLLEGE OF SCIENCE, KARAD

Department of Microbiology

Short Term Course

“Industrial Quality Control Microbiology”

Year 2022- 2023

Result

Roll no.	Name of Students	Theory Marks Obtained out of 40	Practical Marks Obtained of 60	Percentage
5001	AYARE SHRUTIKA UMESH	30	56	86
5002	BHISE SAVITA BABAN	34	51	85
5003	BUDHAWALE PRASHANT NAVNATH	30	54	84
5004	CHAVAN GAYATRI SHIVANAND	30	55	85
5005	ETAM PRANJAL PRAKASH	36	56	92
5006	HASOLE PRASAD BAJARANG	32	54	86
5007	HAWARE POOJA SHASHIKANT	28	53	81
5008	INGALE DARSHAN DADASAHEB	32	53	85
5009	JADHAV BHARATI VASANT	26	58	84
5010	KADAM PRATHMESH PRAKASH	30	54	84
5011	KAMBALE MAYURI ANANDA	32	52	84
5012	KAMBLE ARUNDHATI AVINASH	32	54	86
5013	KAVADE RADHIKA RAHUL	30	52	82
5014	KHARAT SAMADHAN ANIL	38	47	85
5015	MAGADUM PRATIKSHA MAHIPATI	32	49	81
5016	MALI PRAGATI BHIMRAO	34	54	88
5017	MALI SWAPNALI MADHUKAR	32	53	85
5018	MULANI AYESHA MUSA	28	55	83
5019	NAGANE SHIVANI DILIP	30	54	84
5020	PATIL ABHAY BAJIRAO	32	53	85



5021	PATIL PRAGATI SANJAY	28	58	86
5022	PATIL PRIYANKA SHRIKANT	38	56	94
5023	SATARMAKER TANJUM IBRAHIM	36	54	90
5024	SHINDE TEJASWINI SUBHASH	38	52	90
5025	SHINDE YUKTA YUVARAJ	30	53	83
5026	WATEGAONKAR SWAPNALI NIVRUTTI	34	52	86
5027	ADSUL RUSHIKESH SANJAY	30	50	80
5028	AMBALE VAIBHAVI SAGAR	34	52	86
5029	BELEKAR PRASAD VISHWANATH	36	56	92
5030	CHOUGALE OMKAR SHASHIKANT	28	52	80
5031	DESHKUMKH MANASI NARESH	32	54	86
5032	GHOLAP MONALI ANIL	34	54	88
5033	HAKE SHWETA NARENDRA	36	51	87
5034	KAMBLE MRUNAL BABASO	32	53	85
5035	KAMBLE MRUNALI BABURAV	30	57	87
5036	KOLI GANESH RAJENDRA	34	51	85
5037	KUMBHAR VIRESH VIJAY	34	52	86
5038	MUJAWAR AIMAN TANVEER	34	57	91
5039	MUNDE RAMESHWAR BALAJI	36	57	93
5040	NADDAF JEENAT MAKASOOD	32	52	84

Pratik
Course Co-ordinator

[Signature]
HEAD
DEPARTMENT OF MICROBIOLOGY



CCE-22

YASHWANTRAO CHAVAV COLLEGE OF SCIENCE, KARAD

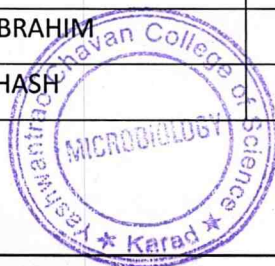
Department of Microbiology


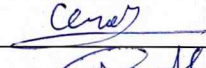
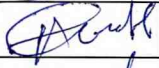

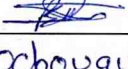
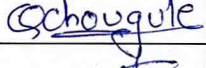

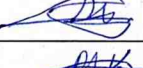

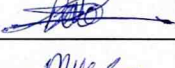


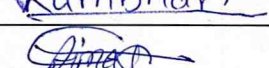
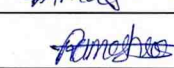
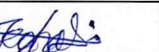

Short Term Course

“Industrial Quality Control Microbiology.”

Year 2022 - 2023

Roll no.	Name of Students	Signature (Certificate Received)
5001	AYARE SHRUTIKA UMESH	<u>Shrutika</u>
5002	BHISE SAVITA BABAN	<u>SB</u>
5003	BUDHAWALE PRASHANT NAVNATH	<u>Budhawale</u>
5004	CHAVAN GAYATRI SHIVANAND	<u>GSeharan</u>
5005	ETAM PRANJAL PRAKASH	<u>Pranjale</u>
5006	HASOLE PRASAD BAJARANG	<u>Prasole</u>
5007	HAWARE POOJA SHASHIKANT	<u>Pooja</u>
5008	INGALE DARSHAN DADASAHEB	<u>Jadhav</u> <u>INGALE</u>
5009	JADHAV BHARATI VASANT	<u>Jadhav B.V</u>
5010	KADAM PRATHMESH PRAKASH	<u>Prathmesh</u>
5011	KAMBALE MAYURI ANANDA	<u>Mumbale</u>
5012	KAMBLE ARUNDHATI AVINASH	<u>K.A.A</u>
5013	KAVADE RADHIKA RAHUL	<u>Ravade</u>
5014	KHARAT SAMADHAN ANIL	<u>Samant</u>
5015	MAGADUM PRATIKSHA MAHIPATI	<u>Pratiksha</u>
5016	MALI PRAGATI BHIMRAO	<u>Pragati</u>
5017	MALI SWAPNALI MADHUKAR	<u>Swapnali</u>
5018	MULANI AYESHA MUSA	<u>Amulani</u>
5019	NAGANE SHIVANI DILIP	<u>Nagane</u>
5020	PATIL ABHAY BAJIRAO	<u>Patil</u>
5021	PATIL PRAGATI SANJAY	<u>Patil</u>
5022	PATIL PRIYANKA SHRIKANT	<u>Patil</u>
5023	SATARMAKER TANJUM IBRAHIM	<u>Satarmaker</u>
5024	SHINDE TEJASWINI SUBHASH	<u>Shinde</u>



Roll no.	Name of Students	Signature (Certificate Received)
5025	SHINDE YUKTA YUVARAJ	
5026	WATEGAONKAR SWAPNALI NIVRUTTI	
5027	ADSUL RUSHIKESH SANJAY	
5028	AMBALE VAIBHAVI SAGAR	
5029	BELEKAR PRASAD VISHWANATH	
5030	CHOUGALE OMKAR SHASHIKANT	
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5040	NADDAF JEENAT MAKASOOD	



Yashwantrao Chavan College of Science, Karad

Department of Microbiology

Short term Course –Industrial Quality Control in Microbiology 2022-23

CO Attainment

Average Attainment	3	Target Attainment level	Level 5	Remark	Target achieved
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Course code	Course Title	% of students above 60 % for practical examination	Level of attainment for practical examination	% of students above 80 % of mid-course exam marks	Level of attainment	Attainment of course(Theory & Practical)
Short term	Industrial Quality Control in Microbiology	100.00	3	100.00	3	3

By using below attainment levels 1,2,3 for the Percent of students in B	
For internal exam	
Level 1	Less than 60% of students scoring more than average marks
Level 2	60% - 80% of students scoring more than average marks
Level 3	more than equal to 80% of students scoring more than average marks

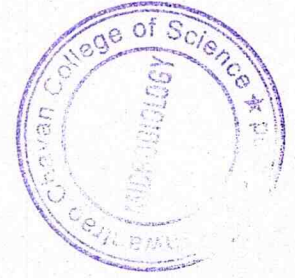


Yashwantrao Chavan College of Science, Karad

Department of Microbiology

Short term Course-Industrial Quality Control in Microbiology (2022-23)

Course Code	Short Term	Course:	Industrial Quality Control in Microbiology
Prepared by	Miss. K. A. Yadav	Date	2022-23
Target Group:	M.Sc. II		
Pre-requisites	<ul style="list-style-type: none">• Basic (10+2) knowledge of science faculty + good analytical skills.Basic knowledge regarding food science.		
Course Outcomes			
At the end of the course the students should be able to			
CO1	Understand some emerging concepts in Quality Control.		
CO2	To grasp the fundamental of Industrial QC Departments		
CO3	Hazard Analysis and Critical Control Point standards..		



Estd. :

1958

|| Be one with the downtrodden and the underprivileged ||

Shri Shivaji Education Society, Vidyanagar, Karad
Board for Higher Education's, Vidyanagar Karad's

Yashwantrao Chavan College of Science, Karad

- Vidyanagar, Karad - 415 124.
- Reaccredited B++ Level by NAAC, Bangalore.
- An ISO 9001 : 2015 Certified College



Short Term Course

Certificate of Completion

This is to certify that Mr./Miss. Pranjal Prakaash Etam

of Class M.Sc.-II has Completed Short Term Course (3 Months) in _____

Industrial Quality Control Microbiology conducted by the department of

Microbiology during the academic year 2022-2023

Course Co-ordinator

Head of the Department

IQAC Co-ordinator

Principal

**YASHWANTRAO CHAVAN COLLEGE OF SCIENCE,
KARAD**

Department of Microbiology

Short Term Course

“Industrial Quality Control Microbiology”

Year 2022- 2023

REPORT

Name of the Course	“Industrial Quality Control Microbiology”
Class	M.Sc.II
Date	2022-23
Name of the department:	Microbiology
Program type	Short Term Course
No. of Students Enrolled	40
No. of Students Successfully completed the course	40
Passing Percentage	100
Program outcomes	<ol style="list-style-type: none">1. Students will get overall knowledge about the Industrial Quality Control Department2. Hands on different instruments used in Industrial microbiology laboratory.3. Improve students skill for handling and teamwork skills4. This will create career opportunity for students in government laboratory as well as in private industries.


Course Coordinator

Course Co-ordinator




Head

Department of Microbiology
HEAD

DEPARTMENT OF MICROBIOLOGY

Yashwantrao Chavan College of Science, Karad

Department of Microbiology

Course Title: Industrial Quality Control Microbiology.

Course Duration: 12 weeks

Overview:

Industrial Quality Control, often called QC, is a systematic and structured process employed in manufacturing and production to ensure that products meet defined quality standards and specifications. Its primary purpose is to identify and rectify defects, non-conformities, or product or process variations, guaranteeing consistent quality and reliability. Key aspects of industrial quality control include setting and adhering to specific quality standards, rigorous inspection and testing of raw materials, components, and finished products, and implementing corrective actions when deviations from these standards are identified. It involves a dedicated team of professionals overseeing and executing quality control processes.

The major aim of the program is to provide hands-on training to the participants that could boost their confidence in exploring further higher research or analysis in the field of life sciences.

Objective:

1. To provide basic information regarding various Quality control measures parts of commonly used laboratory equipment used in laboratory.
2. To prepare the microbiology student with important techniques used in microbiology laboratory.
3. It highlights the basic laboratory techniques for processing clinical samples.

Unit I Bioburden determination and pyrogen testing

(3 weeks)

2.1 Total microbial count

2.2 Methods of Bioburden assessment

2.3 Pyrogenicity

2.4 Alternative test methods



Unit II Quality Management Systems in Pharmaceutical Manufacturing (3 weeks)

- 1.1 Pharmaceutical Quality System
- 1.2 Good Manufacturing procedures
 - 1.2.1 Specifications, Batch Manufacturing records
 - 1.2.2 Standard Operating Procedures
 - 1.2.3 Hazard Analysis and Critical Control Point
- 1.3. Validation - validation master plan, Qualifications and its types

Unit III Auditing the microbiology laboratory (3 Weeks)

- 3.1 Introduction
- 3.2 Record keeping – Batch Manufacturing Record
- 3.3 Quality audits; Auditors and the audit process
- 3.4 Auditing the microbiology laboratory

Unit IV Pharmaceutical Drug Regulatory Affairs & Cleanrooms (3 weeks)

- 1.1 United States Food and Drug Administration (USFDA)
- 1.2 International Conference on Harmonization of technical Requirement for registration of Pharmaceuticals for Human use (ICH)
- 1.3 Cleanroom contamination & testing

Practicals (3weeks)

- Study of Air Microflora
- Study of surface Microflora by Solid Impaction Method
- Microbiological analysis of raw material for various industries
- Cleanroom contamination & testing
- Demonstration of Bacterial Pyrogens Testing
- Auditing the microbiology laboratory




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DEPARTMENT OF MICROBIOLOGY