

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

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3	Timetable
4	QP Theory and Practical
5	Mark List
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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.

Course Co-ordinator

Head

Department of Microbiology

DEPARTMENT OF MICROBIOLO





II Be One with the downtrodden and the underprivileged II

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

Hon. Yashwantrao Chavansaheb Founder

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

8 02164 - 271356, 271357 e-mail : prinyccsk@gmail.com website: www.yccskarad.com UDISE Code - 27310207715 Index No. - J 21.02.002

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

Dr. Suryakant Bapu Kengar

Hon. P. D. Patilsaheb

President up to 17th September 2008

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, Yashwanrao Chavan College of Science, Karad	Internal Member
6	Miss. Yadav K.A.	Assistant Professor Department of Microbiology, Yashwanrao Chavan College of Science, Karad	Internal Member

o-ordinator, IQAC



Founder

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President up to 17th September 2008

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: 04/08/2022

Ref. 13 78/2022-23

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 IOAC 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,



Founde

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Dr. Suryakant Bapu Kengar

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: 04/08/2022

Ref. 13 78/2022-23

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

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Dr. Survakant Bapu Kengar

Hon. Shamrao Alias Balasaheb Pandurang Patil

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

Principal

Hon. Altafhusen Nasiruddin Mulla

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

Date: 04/08/2022

Ref. 13 7B/2022-23

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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Founder

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Dr. Suryakant Bapu Kengar

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. No. 1378/2022-23

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 Shor	rt 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

o-ordinator, IOAC





Founder

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President up to 17th September 2008

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Dr. Suryakant Bapu Kengar

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. /2/2/2022-23

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.

Chavan College of Science

Yours Sincerely,



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

YASHWANTRAO CHAVAN COLLEGE OF SCIENCE, KARAD

Hon. Yashwantrao Chavansaheb Founder Vidyanagar, KARAD - 415 124 Dist. Satara (Maharashtra)

website: www.yccskarad.com

Hon. P. D. Patilsaheb President up to 17th September 200

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Dr. Suryakant Bapu Kengar

Principal

Hon. Shamrao Alias Balasaheb Pandurang Patil President. MLA

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

Ref. No. /2/2/2022-23

Hon. Altafhusen Nasiruddin Mulla

General Secretary,

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

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

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

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Dr. Suryakant Bapu Kengar

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. No. /2/2/2022-23

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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Kindly attend the meeting and do needful.

Thanking You.

Yours Sincerely,

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 where 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 where 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 where 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. 08 J. U. Puhl - Jan

2. Dr. P.P. Loni - PPloon

3. Dr. D. B. Jadhw - Stathan 4. Mr. S.B. Malarcade - Brownell

5. DOS. A. A. Recet (Rant)

6. Miss K. A. Yadar - Will



YASHWANTRAO CHAVAV COLLEGE OF SCIENCE, KARAD Department of Microbiology

Short Term Course

"Industrial Quality Control Microbiology."

Year 2022 - 2023

Name of the Enrolled Students

Date: 2/12/2022

Roll no.	Name of Students	Signature
5001	AYARE SHRUTIKA UMESH	Shutius
5002	BHISE SAVITA BABAN	SP
5003	BUDHAWALE PRASHANT NAVNATH	Bhuelhowale
5004	CHAVAN GAYATRI SHIVANAND	Geharan
5005	ETAM PRANJAL PRAKASH	James
5006	HASOLE PRASAD BAJARANG	thasole
5007	HAWARE POOJA SHASHIKANT	Posta
5008	INGALE DARSHAN DADASAHEB	Ingale D
5009	JADHAV BHARATI VASANT	JadhavB.V.
5010	KADAM PRATHMESH PRAKASH	Opkodam.
5011	KAMBALE MAYURI ANANDA	Mambale
5012	KAMBLE ARUNDHATI AVINASH	K.A.A
5013	KAVADE RADHIKA RAHUL	Ravade
5014	KHARAT SAMADHAN ANIL	* Karat
5015	MAGADUM PRATIKSHA MAHIPATI	Objector
5016	MALI PRAGATI BHIMRAO	Panali.
5017	MALI SWAPNALI MADHUKAR	Mahukat.
5018	MULANI AYESHA MUSA	Amulani
5019	NAGANE SHIVANI DILIP	@Nagono
5020	PATIL ABHAY BAJIRAO	BORNY_
5021	PATIL PRAGATI SANJAY	Partil
5022	PATIL PRIYANKA SHRIKANT	about -
5023	SATARMAKER TANJUM IBRAHIM	Hataemaleas
5024	SHINDE TEJASWINI SUBHASH Chavan Co	Flands

MICROBIOLOG

Roll no.	Name of Students	Signature
5025	SHINDE YUKTA YUVARAJ	Huinde
5026	WATEGAONKAR SWAPNALI NIVRUTTI	Gustegsonkoe
5027	ADSUL RUSHIKESH SANJAY	Rishi
5028	AMBALE VAIBHAVI SAGAR	Hadduffyles.
5029	BELEKAR PRASAD VISHWANATH	Wholaker.
5030	CHOUGALE OMKAR SHASHIKANT	Ochougule
8031	DESHKUMKH MANASI NARESH	MDeshmulch
5032	GHOLAP MONALI ANIL	Daylolop
5033	HAKE SHWETA NARENDRA	1 went
5034	KAMBLE MRUNAL BABASO	Washatee :
5035	KAMBLE MRUNALI BABURAV	G H burlole
5036	KOLI GANESH RAJENDRA	CALOR
5037	KUMBHAR VIRESH VIJAY	Kumbhen
5038	MUJAWAR AIMAN TANVEER	ANTANIAWYE
5039	MUNDE RAMESHWAR BALAJI	PRMunle .
5040	NADDAF JEENAT MAKASOOD	Anna

Course Co-ordinator

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 4 th Dec. 2022. All concerned should note and follow.

Course Co-ordinator

HEAD
DEPARTMENT OF MICROBIOLOGY



(1)

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	shus tik	show tike	Shoutika	shoutike	shoutike	Shoutika	THE PARTY OF THE P
2	BHISE SAVITA BABAN	\$	SB	38_	B	38	A6	8B_
3	BUDHAWALE PRASHANT NAVNATH	Bhushawale	Budhawal	Ab	Budhawal	Budhawale	Budhawal	e Budhawa
4	CHAVAN GAYATRI SHIVANAND	Ofehaven	Eletaur	Eschen	Geschen	Glehen	Behen	Golehen
5	ETAM PRANJAL PRAKASH	Francial	Franko	Parja	ile Ab	Payal	Donal	Alo
6	HASOLE PRASAD BAJARANG	Phasole	Phasole	-Phasole		Phosole	Phasole	Phasok
7	HAWARE POOJA SHASHIKANT	Pooja	Pocia	Pooja	Proje	Pooja	Pooja	900ja
8	INGALE DARSHAN DADASAHEB	Ingole	Ingole.	mgele	Ingele	INgok	INGOR	Ab
9	JADHAV BHARATI VASANT	JadhavBil	Jadhavay	JadhavB.V	Jaghares	Janav BY	TadhavBV	Ab
10	KADAM PRATHMESH PRAKASH	Ab	Podam	Dokaden	De roden	Dobadan	Ab	Apkedan
11	KAMBALE MAYURI ANANDA	Montine	Monutiber	Mountine	Mouine	Mhynie	Mhumir	Munine
12	KAMBLE ARUNDHATI AVINASH	KAA	MAA	Ab	KAA	MAA	K.A.A	Ab
13	KAVADE RADHIKA RAHUL	Ab	Donal	- Ab	Ab	Rowada	- Ab	Rared
14	KHARAT SAMADHAN ANIL	Asknow	Ab	Asnu	ABRIGHT	Askun	Asknow -	ASMEN
15	MAGADUM PRATIKSHA MAHIPATI	Broghun	Moradha	Projection		Photogodhum	Bulgadhan	Prografium
16	MALI PRAGATI BHIMRAO	Proli-	Permi	Promi	Pamali	(PBmali	PBreli	Panult
17	MALI SWAPNALI MADHUKAR	@smadmens	Ab	Burkanco	- Osnahus	ashore @		Banch
18	MULANI AYESHA MUSA	Omi Coni	Anular	Brulan?		Omeon	Amlaso	Qualant.
19	NAGANE SHIVANI DILIP	SNaghe	Stuge :	Orthorne	GNayene	STATE OF THE PARTY	Chane	Obgre.
20	PATIL ABHAY BAJIRAO	BPOHi 1	(Brati)	@patil	(Apatil	(Apati)	Boati 1	

MICROBIOLOGY SOL

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	PSpeulil	Ab	Papeltil	Papalil	Populil	Papeutil	Papatil
22	PATIL PRIYANKA SHRIKANT	pputil	Sputi (Ab	PRUHIL	PRUHI	Provide	Pault
23	SATARMAKER TANJUM IBRAHIM	Stormarken	Stormerke	Starterte	Ab	Stormarbar	Stomertran	Stormerles
24	SHINDE TEJASWINI SUBHASH	Coup	Ab	Cost .	Conf	Coul	ay	GH.
25	SHINDE YUKTA YUVARAJ	Shinde	Thind	Shinde	Shinde	Phinde	Thinds	Thinde
26	WATEGAONKAR SWAPNALI NIVRUTTI	Sovel	Com	and	Carros	Ab	Ab	Gray
27	ADSUL RUSHIKESH SANJAY	Rulli.	Rushi	Rush.	RUSAF	Rush	Rusha	Prich.
28	AMBALE VAIBHAVI SAGAR	(my	Com	las	Cont	Com	Lemb	Land
29	BELEKAR PRASAD VISHWANATH	Mochealan	Molekan	Moderner	Meleckon		- 1-1 1/	Vibeleakor
30	CHOUGALE OMKAR SHASHIKANT	Ochongul	Saugulus	Qchangul	Canagale	Schugul	Genezuler	. Colugale
31	DESHKUMKH MANASI NARESH	Be	alul	Ab	Bul	ar	Our	Bu
32	GHOLAP MONALI ANIL	mothele	ngether	mayhol	modele	maha	may had	Ab,
33	HAKE SHWETA NARENDRA (THAT	Pal	(Pole)	(Fall	Con	(F)	(Ble)
34	KAMBLE MRUNAL BABASO	1000	-000	Sugar		Money	THE STATE OF THE S	
35	KAMBLE MRUNALI BABURAV	Dans	meel	mell	men	mall	Mell	men
36	KOLI GANESH RAJENDRA	(time	Perl	(local)	aroso	Ciel	Cook	Col
37	KUMBHAR VIRESH VIJAY	Kansar	Mumber	Kumbaro	Kamphon	Kneppos	Rawpoor	1 Krun Brown
38	MUJAWAR AIMAN TANVEER	Aiman	Aman	Aiman	Aman	Aman .	Alman	Alman
39	MUNDE RAMESHWAR BALAJI	Rameshus	Romesta	Reamshows	Randshae	Roushwa	Control of the state of the state of	Ranshew
40	NADDAF JEENAT MAKASOOD	Joennes	Joeher	Feehor	Frency	Jenasi	Teenath	Tenenetto

MICROBIOLOGY * Karad

Certificate course in Industrial Quality Control and Management

Theory		

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	Struct 100	Sidika	Soutika	Ab	sufika	Sout tha	South res
2	BHISE SAVITA BABAN	5B	SB-	B	B	<u>GB</u>	SB	SB
3	BUDHAWALE PRASHANT NAVNATH	Budianala	Budhawale	Budhawale	Budhavale	Ab	Budhawale	Budhawak
4	CHAVAN GAYATRI SHIVANAND	Evel.	girl	fry	egen)	aus	(Quy	(100
5	ETAM PRANJAL PRAKASH	Trayer	Payal	Treyor	Ab	Trajal	Pranjal	Prayal
6	HASOLE PRASAD BAJARANG	Phasole	Phasole	Brasole	Phasole.	Phasole	Phasore	Presole
7	HAWARE POOJA SHASHIKANT	Pooja	Pooja	Podja	Poojo	Podo	Pooja	Ab
8	INGALE DARSHAN DADASAHEB	Ingole	Ingole	ingole	INgole	A6.	INgole	INgok
9	JADHAV BHARATI VASANT	Jadhav BN	Jadhan Br.	-Jaolhav By	JadhavBr	* adhave v.	Jadrov B.V.	Jadhan B.V
10	KADAM PRATHMESH PRAKASH	Dolardam	Do hadm	Apladin	Ab	Ab	Popladam	- Opplant
11	KAMBALE MAYURI ANANDA	more	Mhadhe	Mitatine	Mhutine	Moutine	Modine	Modine
12	KAMBLE ARUNDHATI AVINASH	K.A.A	K-A-A	K.A.A.	K.A.A.	KIA.A	K.A.A.	K.A.A.
13	KAVADE RADHIKA RAHUL	Kubade	Kapade	Kavade	Kavade	Kaoade	Bassede	- Kavado
14	KHARAT SAMADHAN ANIL	Askhonell	ASK honet	ASknowly	Askbara	A8M0M	A8khoma4	ASKHONI.
15	MAGADUM PRATIKSHA MAHIPATI	Magadu	busagas	Rogadem	Magadin	Magadin	Maradin	Prosalm
16	MALI PRAGATI BHIMRAO	Panali	(BMali)	- Alo	Demali	@small	Pamali	(P) B Mal
17	MALI SWAPNALI MADHUKAR	Monadhule	amoranas	Bushaker	Ab	Brodher	Knokulex	Benakhu
18	MULANI AYESHA MUSA	(Amilan?	Amlan?	(Andon?	Alo.	Andan?	Amulani	Prulari
19	NAGANE SHIVANI DILIP	Shagane	@Nagure	DNOGAR	Smagang	S Nagare	Enlagain	3 Norgan
20	PATIL ABHAY BAJIRAO	Aposti 1	Opoti 1	(Apochi)	Apati1	Ab	(Apashi)	Apati 1

Certificate course in Industrial Quality Control and Management Theory Attendance

Sr.No.	Name of the Student	07/61	09/01	10/61	14/01	16/0/11	17/01	21/01
21	PATIL PRAGATI SANJAY	Depatel	perputil		Papalil	Brutil	Papetil	Papatil
22	PATIL PRIYANKA SHRIKANT	Rafil	- patil	- Patil	- grati)	- Ab	padil a	pati
23	SATARMAKER TANJUM IBRAHIM	Starteles	Someter	Ab	Sturmater	8 comoles	THE RESERVE TO BE SHOWN THE PROPERTY.	8 Tambs
24	SHINDE TEJASWINI SUBHASH	Thinde	Thinde	Thinde i	Shinde	Alo	Shinde	Sincle
25	SHINDE YUKTA YUVARAJ	Conf	Gay	Carl	Ab	Cul	(ii)	(al
26	WATEGAONKAR SWAPNALI NIVRUTTI	Cons	3000	Ab	(gus	and .	and .	Ab
27	ADSUL RUSHIKESH SANJAY	Ruch;	Rushi	Ruchi	Rush	RUSH.	Pushi-	Rushi
28	AMBALE VAIBHAVI SAGAR	Comble	Comble	Comble	Omble	Carok	. Ab	Camble
29	BELEKAR PRASAD VISHWANATH	Melekar	Melekas	Mpsjekou			Molekan.	
30	CHOUGALE OMKAR SHASHIKANT	Ochusuf	Ochuzuk	Ochugidu	Ochugule	Schugul	· Ab	Ab
31	DESHKUMKH MANASI NARESH	an	The	an	ay	Ab	All	mohale
32	GHOLAP MONALI ANIL	moshed	maple	wayor	mahe	maybele	mother	
33	HAKE SHWETA NARENDRA	Frank	(Jorda)	Del	(failer	(Josef	(Mark)	(Cool)
34	KAMBLE MRUNAL BABASO	mathely	- Total	Martino	minal	AMO	Ab	Ab
35	KAMBLE MRUNALI BABURAV	Men	mell	male	dh	mell	mele	meu
36	KOLI GANESH RAJENDRA	(Dal	(Huel)	(Honds	(40 B)	(PSG)	and	Dego
37	KUMBHAR VIRESH VIJAY	Mambhan	Kumbhan	Kumbha	1 Kumbhar	hembhous	skundnar	Kunshan
38	MUJAWAR AIMAN TANVEER	Amans	Dansin	Bonas	Diman	Dimak	Amou	1A6
39	MUNDE RAMESHWAR BALAJI	RBMund	Remund	PBMunDe	A6	PBMunite:	RBMunDe	RBMunDe
40	NADDAF JEENAT MAKASOOD	Jehos"	Jecho	Julies	Jehs.	Jech	Jehor	de cha

Certificate course in Industrial Quality Control and Management
Theory Attendance

	Theory Attendance									
Sr.No.	Name of the Student	27/01	28/01	28/01	30/01	31/01	04/02	06/02		
1	AYARE SHRUTIKA UMESH	3miles	South	Smotito	Soulike	Swike	soutika	soutike.		
2	BHISE SAVITA BABAN	· SB	SD	SB	<u>88</u>	882	5B2	500		
3	BUDHAWALE PRASHANT NAVNATH	Bushacoole	Budhared	Budhaval	Budraule	Budhardle	Budhamal	Budhacal		
4	CHAVAN GAYATRI SHIVANAND	Geschom	German	Osheven	Cesehan	Georgher	Ceseria	agerse.		
5	ETAM PRANJAL PRAKASH	Traital	Stearyal	Ab	Topyal	Deved	apayal	Ab		
6	HASOLE PRASAD BAJARANG	Basole	Prosole.	Phosole	Ab	Phasole	Thosale.	Phaso10		
7	HAWARE POOJA SHASHIKANT	P0012	Pooja	Pooja	Ab	Pooja	Pooig	Pooja		
8	INGALE DARSHAN DADASAHEB	Ingole	INgol	Ingole	Ingar	- Ab	INgale	Ingole.		
9	JADHAV BHARATI VASANT	Jadhav B.V	Jackaver	Ab	Jadhov, B.V	Jadhov By	JadhanBy	Jadhav.B.		
10	KADAM PRATHMESH PRAKASH	Docarden	Alp	Drondon	Bploodin	Apladan.	Dobedan.	Ab		
11	KAMBALE MAYURI ANANDA	Pramble	Prounts	Ab	Akamble	moundy	Meanbly	· AD		
12	KAMBLĖ ARUNDHATI AVINASH	KAA	KAA	KA.A	KAA	KAA	X.A.A.	K.A.A		
13	KAVADE RADHIKA RAHUL	Rared	Raul	Ab.	Ab	Porcelos	AD	Ravers		
14	KHARAT SAMADHAN ANIL	ASAROM	ASKNOW	ASKhont	#8Khona	Askhont	ASMOORLE	ASKhort		
15	MAGADUM PRATIKSHA MAHIPATI	Magadun	phagodun	pragadin	pragadu	JAD	Ragaduy	pragadin		
16	MALI PRAGATI BHIMRAO	Demali	Premali'	Pamali	Pemali	Pemali	Ab	Pomak		
17	MALI SWAPNALI MADHUKAR	THE RESERVE AND ADDRESS OF THE PARTY OF THE	Bredhow	Braker	Ab_ (Benshing		Bondado		
18	MULANI AYESHA MUSA	Amullani	Braullan	Brillani)	&Mullant	Knullant	Myllani	Smulland		
19	NAGANE SHIVANI DILIP	Shagane	Suppans	BNagan	- Ab	3 magang	@Nagang	Entogan		
20	PATIL ABHAY BAJIRAO	Abatil	(Apahl	Apadi1	Ab	(Apodh')	Apahl	(Apati)		

Certificate course in Industrial Quality Control and Management Theory Attendance

Sr.No.	Name of the Student	27/01	200/ 28/01	28/01	30(01	31/01	04/02	0662/23
21	PATIL PRAGATI SANJAY	Reut	Perty	Patil	- Ruti	Jodil	- Perti	Pert 1
22	PATIL PRIYANKA SHRIKANT	Poul!	patil	Aberti'l	Paperti1	Poeti!	Poet!	Paperti'
23	SATARMAKER TANJUM IBRAHIM	Stormode	Stormerkes	Stermanle				Thinde.
24	SHINDE TEJASWINI SUBHASH	Shind	Thinde.	Shinck !	Shinac	Thing	Ab	Shrote.
25	SHINDE YUKTA YUVARAJ	and	Carl	Coul	(syl	Cas	(m)	Ab
26	WATEGAONKAR SWAPNALI NIVRUTTI	Ceral	Carrol	Conal	Ab	may 1	E WOLT	0 1
27	ADSUL RUSHIKESH SANJAY	Buchi	Rush!	RUSA!	Rughi	Rush.	Rush!	RUSAs.
28	AMBALE VAIBHAVI SAGAR	Cantole	Cample	Cemble	Comble	Ab	Comble	Cenalole
29	BELEKAR PRASAD VISHWANATH	Melekan		CONTRACTOR NOT THE PARTY OF	16 Poletras	Ubelekar	Deletar	Ochugul
30	CHOUGALE OMKAR SHASHIKANT	Celingul	- Ab	Ochumile	Ourney	1	3 0	1
31	DESHKUMKH MANASI NARESH	But	Oss	Ab	(A)	(A)	Ab made ab	markete
32	GHOLAP MONALI ANIL	mahalee	meghok	moshok	Ab	meghole	moshak	Heger
33	HAKE SHWETA NARENDRA	Hotehude	The second secon			Agent to Man	H8hide	Kum
34	KAMBLE MRUNAL BABASO	Mag	Aluna	THE STATE OF THE S	2001	mall	Ab	mele
35	KAMBLE MRUNALI BABURAV	mode	mell	men	mell	meu	mell Copy	(Clayer
36	KOLI GANESH RAJENDRA	Carpe	Quille	Ceuro	Cell	Och (X 11 1/2 /
37	KUMBHAR VIRESH VIJAY		THE RESERVE AND ADDRESS OF THE PARTY OF THE		a kumbha	Kumbho	a Kumphon	Alman
38	MUJAWAR AIMAN TANVEER	Amark		9	Almen	America	•	
39	MUNDE RAMESHWAR BALAJI	RBMunDe		200	PBMunDe			Zoshu
40	NADDAF JEENAT MAKASOOD	John	. Tought	Zore	Zouhard	Zone	Ab	100,00

MICROBIOLOGY

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

Certificate course in Industrial Quality Control and Management

Theory	Attendance	- Thurs	Ρ
			the state of the s

Sr.No.	Name of the Student	7/02	8/02	09/02	10/02	99/02	12/02	18/02
1	AYARE SHRUTIKA UMESH	shuotika:	Shurtikur	shoutils.	Ab	Shoutika	shoutiles	
2	BHISE SAVITA BABAN	5B	SE	\$	98	SB		98
3	BUDHAWALE PRASHANT NAVNATH	Budhawale	Budhawal	Budhawafe	Budhawale		1 0	Budhawala
4	CHAVAN GAYATRI SHIVANAND	Eschwen	Feham	Elehaen	Gerson		- A	
5	ETAM PRANJAL PRAKASH	Trappal	Toyof	Ab	They ar	John	Payal	Ab
6	HASOLE PRASAD BAJARANG	Phasole	Phasoles	Phasole,	Phosole	Ab	Phasole	- Phosol
7	HAWARE POOJA SHASHIKANT	P0019	Pooja	Pooja	Pooj 9	Pooja	Pooja	Pooja
8	INGALE DARSHAN DADASAHEB	mydle	ingale	Ingals	Ab	IN gols	INgolu	INGOL
9	JADHAV BHARATI VASANT	JadhavBV.		-		A 10	JadhavBry	
10	KADAM PRATHMESH PRAKASH	App radom	Pham	Pp lodern	Ap adoin	po bodom	Do Codor	Ap adum
1.1	KAMBALE MAYURI ANANDA	minutine	Mhatine	Minhine	Mottne	Mhotine	Motine	. Ab
12	KAMBLĖ ARUNDHATI AVINASH	KAA	K.A.A.	Ab	KAA	KAA	KAA	KAA.
13	KAVADE RADHIKA RAHUL	MAD	Durent	- Ab	AP	Borret	Ab	Ab
14	KHARAT SAMADHAN ANIL	A8/hon4	Asphoral	ASKHOOL	Askhonut	ASMOR	Ab	Aspe
15	MAGADUM PRATIKSHA MAHIPATI	Magadun	Ab	Ragades	Magadin	OA,	penagudin	
16	MALI PRAGATI BHIMRAO	Pomali	Pemali	Pomali	P. Bright	Ab	(Demali)	PBMall.
17	MALI SWAPNALI MADHUKAR	Mendre	Ab	Bradhan	Bouluker	OS. madhey	Braham	Brankus
18	MULANI AYESHA MUSA	(Amulan?	(Amilan?	Ab.	Amulan?	Pruon?	Anulan?	Prulan
19	NAGANE SHIVANI DILIP	SNagans	Ab	ENagan	ENGROP	@Nagan	Snagare	
20	PATIL ABHAY BAJIRAO	Opah!	Bpatil	Apad'1	A posti 1	A Posti 1	Ab	BPahi,

Certificate course in Industrial Quality Control and Management

Theory Attendance

Sr.No.	Name of the Student	07/02	08 [62	09/02	10 02	11/02	12/62	18102
21	PATIL PRAGATI SANJAY	PSPOA!	Papertil	Ab	Perpet	Papertil	Percell	Perputil
22	PATIL PRIYANKA SHRIKANT	poetri	Ap	poutil	Power"	Pepett!	Posti	Protei
23	SATARMAKER TANJUM IBRAHIM	Storersmort	Stamarke		A Company of the Comp	's turnale		Shinds
24	SHINDE TEJASWINI SUBHASH	Shinde	Shinde	_ Ab 1	Shinde	Shinde	Thinde	
25	SHINDE YUKTA YUVARAJ	Cul	Coul	Ab	ALL IN	Cid	(Red	AI.
26	WATEGAONKAR SWAPNALI NIVRUTTI	End	(que)	Ab	awy 1	Can S	onut 1	Ab
27	ADSUL RUSHIKESH SANJAY	Rushi	BUSH!	Rush	Rught	push:	Rush	Rush
28	AMBALE VAIBHAVI SAGAR	Comble	Centel	omble	- Ab	Camble	Comble	@mble_
29	BELEKAR PRASAD VISHWANATH	belekan	Wholcoka	and the second of the second	Melekan	100 100 100	belekon.	L. C. L. C. L.
30	CHOUGALE OMKAR SHASHIKANT	Odnigule	- Ochnople	Odrigide		Ochuzul		AP
31	DESHKUMKH MANASI NARESH	an	(And	AL	an	(A)	(O)	Aus Dalaga
32	GHOLAP MONALI ANIL	malher	mahol	matele	Motole	Ab	mahose Propose	mahose
33	HAKE SHWETA NARENDRA	1 Server	(Dul	and	U	Fled		mina
34	KAMBLE MRUNAL BABASO	PAHA	Ama	Dura	fin	And Ol	Ab	male
35	KAMBLE MRUNALI BABURAV	mell	mell	mell	Mele	Ab	Tol	ROD
36	KOLI GANESH RAJENDRA	Weed (Re-le	Trop	(Del	Cal	0	
37	KUMBHAR VIRESH VIJAY	Kumbhan'	Kumbhan			Kumbhan	1 Skumbhan	
38	MUJAWAR AIMAN TANVEER	Minar	Aireal			Monar	Remunde	
39	MUNDE RAMESHWAR BALAJI	RBMunDe	RBMunD			PBM De		200 PR
40	NADDAF JEENAT MAKASOOD	Solow	Feeles	Jash	Latel	AP	Thors	- Liver

Seat No.:

Name of student:

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

	2022-23	.
Paper: Industrial Quality C Day and Date – Monday Time 10:30 a.m. to 11:30	y 13/03/2023	Total marks- 40
 Biosafety ha dangerous to human heal (a) Level 1 labs (b) Level 3 labs 	th (c) Level 2 labs (d) Level 4 labs	with agents that are most
	ing agents with potential for respirato thal infection May be studied at BSL-2 f (c) Hepatitis (d) Staphylococcus	
3. Autoclaving is NOT us(a) Culture media(b) Paraffin	sed for sterilization of (c) Cotton (d) Rubber gloves	
4. Which one of the follo (a) Human anatomical wa (b) Animal waste	wing hospital waste is collected in BLUI aste (c) Needles, syringes (d) Food, fruits, vegetables	E bag.
5.The most frequently ac(a) Hepatitis(b) Tuberculosis	quired laboratory infections are (c) None of the above (d) Both of the above	
6.Quality control surveill(a) Daily(b) Weekly	ance schedule for incubator is monitored (c) Monthly (d) With each use	i
7. Efficiency of HEPA fil (a) 99.97% (b) 77%	ters are against 0.3 µm particles. (c) 55% (d) 90.6%	
8. Which of the following (a) Bacteria Hot DOP test (b) Cold DOP test (integ) (c) Air flow resistance te	rity testing)	s?

- (d) Ame's Test
- 9. Incubation in an atmosphere with 5-10% CO₂ can be done in
- (a) Air tight jar

(c) Incubator

(b) Candle jar

(d) None of the above



10. In Kirby Bauer method for antimi inoculated by(a) Pour plate method(b) Swab method	icrobial susceptibility testing, plates are (c) Both (d) None
11.Environmental monitoring is not p (a) Food and Drug Administration (F) (c) International Standards Organizati (b) European Union (EU) (d) All of the above	
12. Transportation of stool specimen(a) Pike's media(b) Alkaline peptone water	for <i>Vibrio cholerae</i> may be done in (c) 10% formalin (d) Amies media
(a) Morning	nber of sputum samples examined are (c) Morning, Spot (d) Spot, Morning, Spot
14. Mycobacterium leprae are stained(a) Gram's stain(b) ZN stain	l by (c) Modified ZN stain (d) Albert stain
to control the airborne particle levels	you move the air by way of supply and return locations and temperature and humidity is called as c) filtered rooms d) makeup rooms
16. Personnel Monitoring has to be personnel Monitoring has to be personnel a) Twice b) Once c) Daily d) W	
processing classifications a) Drain monitoring b) C	ignificant deviations in air cleanliness from qualified Compressed Air monitoring Personnel Monitoring
18. Air velocity at the four corners &a) Anemometer b) Galvanometer	c centre of HEPA filter can be measured by using c) Seismometer d) Speedometer
19. Incubation in an atmosphere with(a) Air tight jar(b) Candle jar	5-10% CO2 can be done in (c) Incubator (d) None of the above
	for hot air oven is (c) 20 minutes (d) None

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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	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

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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

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

Roll	Name of Students	Signature
no.		(Certificate Received)
5001	AYARE SHRUTIKA UMESH	Souther.
5002	BHISE SAVITA BABAN	EB_
5003	BUDHAWALE PRASHANT NAVNATH	Budhawale
5004	CHAVAN GAYATRI SHIVANAND	GSehavan
5005	ETAM PRANJAL PRAKASH	haralalai
5006	HASOLE PRASAD BAJARANG	Phasole
5007	HAWARE POOJA SHASHIKANT	-p00)a
5008	INGALE DARSHAN DADASAHEB	Jadhavey Inga
5009	JADHAV BHARATI VASANT	Jadhay B.V
5010	KADAM PRATHMESH PRAKASH	Deaders.
5011	KAMBALE MAYURI ANANDA	Whenthe.
5012	KAMBLE ARUNDHATI AVINASH	KA.A
5013	KAVADE RADHIKA RAHUL	Ravode.
5014	KHARAT SAMADHAN ANIL	Quana.
5015	MAGADUM PRATIKSHA MAHIPATI	Brogethum.
5016	MALI PRAGATI BHIMRAO	Pamali
5017	MALI SWAPNALI MADHUKAR	(msmodhukar
5018	MULANI AYESHA MUSA	Amilani
5019	NAGANE SHIVANI DILIP	9 Nagane
5020	PATIL ABHAY BAJIRAO	(A)Patil
5021	PATIL PRAGATI SANJAY	Putid
5022	PATIL PRIYANKA SHRIKANT	PROBLE
5023	SATARMAKER TANJUM IBRAHIM an College	STarmolece
5024	SHINDE TEJASWINI SUBHASH	This was a second

Roll	Name of Students	Signature
no.		(Certificate Received)
5025	SHINDE YUKTA YUVARAJ	- Caul
5026	WATEGAONKAR SWAPNALI NIVRUTTI	Cenar
5027	ADSUL RUSHIKESH SANJAY	GARull
5028	AMBALE VAIBHAVI SAGAR	wul
5029	BELEKAR PRASAD VISHWANATH	
5030	CHOUGALE OMKAR SHASHIKANT	Ochouque
5031	DESHKUMKH MANASI NARESH	And .
5032	GHOLAP MONALI ANIL	
5033	HAKE SHWETA NARENDRA	A 16
5034	KAMBLE MRUNAL BABASO	
5035	KAMBLE MRUNALI BABURAV	Must.
5036	KOLI GANESH RAJENDRA	Det.
5037	KUMBHAR VIRESH VIJAY	Kumbhan
5038	MUJAWAR AIMAN TANVEER	Aine
5039	MUNDE RAMESHWAR BALAJI	Remostro.
5040	NADDAF JEENAT MAKASOOD	- Forbalis



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

CO Attainment

Target achieved

Level 5

3

Remark

Target Attainment level

Average Attainment

Course	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	

students in B For internal exam	students in B For internal exam
Level	Level Less than 60% of students scoring more than average
1	marks
Level	Level 60% - 80% of students scoring more than average
2	marks
Level	Level more than equal to 80% of students scoring more
3	than average marks



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

Course	Short Term (Course:	Industr	Course: Industrial Quality Control in Microbiology
Prepared by	Miss. K. A. Yadav		Date	2022-23
Target Gro	Target Group: M.Sc. II			
Pre-	• Basic (10+2) know	ledge of	science 1	Basic (10+2) knowledge of science faculty + good analytical skills.
requisites	Basic knowledge regarding food science.	egarding	food scie	ince.
Course Outcomes	utcomes			
At the end	At the end of the course the students should be able to	uld be ab	le to	
CO1	Understand some emerging concepts in Quality Control.	g concep	ts in Qua	lity Control.
C02	To grasp the fundamental of Industrial QC Departments	of Indust	rial QC I)epartments
CO3	Hazard Analysis and Critical Control Point standards	al Contr	ol Point	standards



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II Be one with the downtrodden and the underprivileged II

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

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

Microbiology during the academic year 2022-2023	Industrial Quality Control Microbiology conducted by the department of	of Class	This is to certify that Mr./Miss. Pranjal Prakaash Etam
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IQAC Co-ordinator



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	 Students will get overall knowledge about the Industrial Quality Control Department Hands on different instruments used in Industrial microbiology laboratory. Improve students skill for handling and teamwork skills This will create career opportunity for students in government laboratory as well as in private industries. 	

Course Coordinator

Course Co-ordinator

Michandron Agenda Agend

Head
Department of Microbiology
HEAD

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



HEAD DEPARTMENT OF MICROBIOLOGY