



**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**

**2019-20**

**Index**

**Total Students: 40**

**Class: M. Sc. II**

**Duration: 3 Months**

| <b>Sr. No.</b> | <b>Documents</b>        |
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| 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**

**2019-20**

**NOTICE**

Date: 17/11/2019

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 Mr K. A. Sutar, course Co-ordinator on or before 1<sup>st</sup> December 2019.



**Course Co-ordinator**



**Head**

**Department of Microbiology**



**YASHWANTRAO CHAVAV COLLEGE OF SCIENCE, KARAD**

**Department of Microbiology**

**Short Term Course**

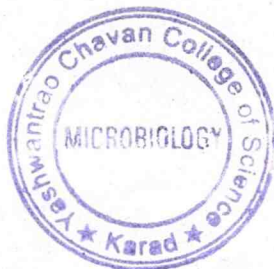
**“Industrial Quality Control Microbiology.”**

**Year 2019 - 2020**

**Name of the Enrolled Students**

| <b>Sr. No.</b> | <b>Name of Students</b>     | <b>Signature</b>    |
|----------------|-----------------------------|---------------------|
| 1              | BAMNE VINAYAK JAYSING       | <u>B.V.J.</u>       |
| 2              | BHEDASGONKAR SANKET SHIRISH | <u>B.S.S.</u>       |
| 3              | BHOLE DIPALI RAJARAM        | <u>Bhole</u>        |
| 4              | BHOSALE KAJAL LALA          | <u>K.L.Bhosale</u>  |
| 5              | BUVA PRIYANKA SHRIKANT      | <u>P.Priyanka</u>   |
| 6              | CHOUGULE MAYURI RAJENDRA    | <u>Mayuri</u>       |
| 7              | GADIWADAR SACHIN VILAS      | <u>Sachinwadar</u>  |
| 8              | HALADKAR SHAILESH SARJERAO  | <u>Shailesh</u>     |
| 9              | JADHAV ROHIT BALASO         | <u>Rohit</u>        |
| 10             | KAVAR AMOL VISHWAS          | <u>Amol</u>         |
| 11             | KUMBHAR POOJA SURESH        | <u>Pooja</u>        |
| 12             | MADGUNDI REVATI BALAJI      | <u>R.B.Madgundi</u> |
| 13             | MULLA AMIR DILAVAR          | <u>Amir</u>         |
| 14             | MULLA MUNNA KARIN           | <u>Mulla</u>        |
| 15             | NADAF SANOVER VAJIR         | <u>Nadaf</u>        |
| 16             | NARULE TANAVI MAHAVIR       | <u>Tanvi</u>        |
| 17             | OHAL SANGMITRA ARJUN        | <u>S.A.ohal</u>     |
| 18             | PATIL SAYALI DILIP          | <u>Sayali</u>       |
| 19             | PATIL SUPRIYA NAMDEO        | <u>Supriya</u>      |
| 20             | PUJARI VISHAL BALASO        | <u>V.Pujari</u>     |

Course Co-ordinator



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**Department of Microbiology**

**Short Term Course**

**“Industrial Quality Control Microbiology.”**

**Year 2019 - 2020**

**Name of the Enrolled Students**

| <b>Sr. No.</b> | <b>Name of Students</b>     | <b>Signature</b>   |
|----------------|-----------------------------|--------------------|
| 21             | SAPATE MAYURI MAHADEV       | <u>Sapate</u>      |
| 22             | SHAIKH MUSTAKEEN ILAHI      | <u>Shai</u>        |
| 23             | SUPANE SAGAR DIGAMBAR       | <u>S. Supane</u>   |
| 24             | UDAGIRI SARITA JAYANT       | <u>U. Jayant</u>   |
| 25             | CHOTHE SHRADHA RAJENDRA     | <u>Shradha</u>     |
| 26             | CHOUGULE BHAKTI SHITAL      | <u>C. B. S.</u>    |
| 27             | DANGE DIVYA DILIP           | <u>D. D.</u>       |
| 28             | DEVKAR ARCHANA VILAS        | <u>Devkar</u>      |
| 29             | JADHAV POOJA LALSING        | <u>Pooja</u>       |
| 30             | JADHAV PORNIMA PANDURANG    | <u>P. Jadhav</u>   |
| 31             | JADHAV SUJIT ASHOK          | <u>S. J.</u>       |
| 32             | JADHAV SURAJ MAHADEV        | <u>Suraj</u>       |
| 33             | KATKAR MAHENDRA SHASHIKANT  | <u>M. Katkar</u>   |
| 34             | KUMBHAR AMOL ANANDA         | <u>K. Amol</u>     |
| 35             | KUMBHAR GITANJALI PARSHURAM | <u>G. Itanjali</u> |
| 36             | KUMBHAR OMKAR ASHOK         | <u>K. Omkar</u>    |
| 37             | KUMBHAR PRIYANKA SHRIRANG   | <u>P. Priyanka</u> |
| 38             | LOKARE ARUNA PRAKASH        | <u>L. Arun</u>     |
| 39             | MULLA NAJNEEN SHAKIL        | <u>N. Shakin</u>   |
| 40             | MULLA SHAKIL MEHBOOB        | <u>Mulla</u>       |

  
Course Co-ordinator



  
**HEAD**  
DEPARTMENT OF MICROBIOLOGY

**YASHWANTRAO CHAVAN COLLEGE OF SCIENCE, KARAD**

**Department of Microbiology**

**Short Term Course**

**“Industrial Quality Control Microbiology”**

**Year 2019 - 2020**

**Theory Time Table**

**Dec. 2019 to Jan.2020**

| Lect. Time  | Friday | Saturday |
|-------------|--------|----------|
| 9.30- 10.20 | (KAS)  | (KAS)    |

**Feb. 2020**

**Practical Time Table**

| Lect. Time   | Saturday                                                        |
|--------------|-----------------------------------------------------------------|
| 8.00 - 8.50  | <b>Practical Lab no. 3</b><br><b>Department of Microbiology</b> |
| 8.50 - 9.40  |                                                                 |
| 9.40 - 10.30 |                                                                 |

**All concerned should note and follow.**



**Course Coordinator**



**Head**

**Department of Microbiology**

**DEPARTMENT OF MICROBIOLOGY**



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**Department of Microbiology**

**Short Term Course**

**“Industrial Quality Control Microbiology”**

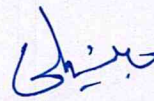
**Year 2019 - 2020**

**Date: 4/12/2019**

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 10<sup>th</sup> Dec. 2019. All concerned should note and follow.



**Course Co-ordinator**



**HEAD  
DEPARTMENT OF MICROBIOLOGY**

Yashwantrao Chavan College of Science, Karad

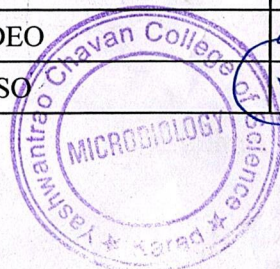
Department of Microbiology

2019-20

Certificate course in Industrial Quality Control and Management

Theory Attendance

| Sr No | Name of the Student         | 10/12       | 14/12       | 15/12     | 21/12       | 22/12       | 28/12       | 29/12      | 03/01       | 04/01       |
|-------|-----------------------------|-------------|-------------|-----------|-------------|-------------|-------------|------------|-------------|-------------|
| 1     | BAMNE VINAYAK JAYSING       | B.V.P       |             | B.V.P     | B.V.P       | B.V.P       | B.V.P       | B.V.P      |             | B.V.P       |
| 2     | BHEDASGONKAR SANKET SHIRISH | B.S.S       | B.S.S       | B.S.S     |             | B.S.S       |             | B.S.S      | B.S.S       | B.S.S       |
| 3     | BHOLE DIPALI RAJARAM        | Bhole       | Bhole       | Bhole     | Bhole       | Bhole       | Bhole       | Bhole      | Bhole       | Bhole       |
| 4     | BHOSALE KAJAL LALA          | K.L.Bhosale | K.L.Bhosale |           | K.L.Bhosale | K.L.Bhosale | K.L.Bhosale |            | K.L.Bhosale | K.L.Bhosale |
| 5     | BUVA PRIYANKA SHRIKANT      | B.Priyanka  | B.Priyanka  |           | B.Priyanka  | B.Priyanka  | B.Priyanka  | B.Priyanka |             | B.Priyanka  |
| 6     | CHOUGULE MAYURI RAJENDRA    | Mayuri      | Mayuri      | Mayuri    | Mayuri      | Mayuri      |             | Mayuri     | Mayuri      | Mayuri      |
| 7     | GADIWADAR SACHIN VILAS      | Sachin      | Sachin      |           | Sachin      | Sachin      | Sachin      | Sachin     | Sachin      | Sachin      |
| 8     | HALADKAR SHAILESH SARJERAO  | Shailesh    | Shailesh    | Shailesh  | Shailesh    |             | Shailesh    |            | Shailesh    |             |
| 9     | JADHAV ROHIT BALASO         | Jadhav      | Jadhav      | Jadhav    |             | Jadhav      |             | Jadhav     | Jadhav      | Jadhav      |
| 10    | KAVAR AMOL VISHWAS          | Kavar       | Kavar       | Kavar     | Kavar       | Kavar       | Kavar       | Kavar      | Kavar       | Kavar       |
| 11    | KUMBHAR POOJA SURESH        | Pooja       | Pooja       | Pooja     | Pooja       | Pooja       | Pooja       | Pooja      | Pooja       | Pooja       |
| 12    | MADGUNDI REVATI BALAJI      | Revati      | Revati      | Revati    | Revati      | Revati      | Revati      | Revati     | Revati      | Revati      |
| 13    | MULLA AMIR DILAVAR          | Amirmulla   | Amirmulla   | Amirmulla | Amirmulla   | Amirmulla   | Amirmulla   | Amirmulla  | Amirmulla   |             |
| 14    | MULLA MUNNA KARIN           | Mulla       | Mulla       | Mulla     | Mulla       | Mulla       | Mulla       | Mulla      |             | Mulla       |
| 15    | NADAF SANOVER VAJIR         | NadafSV     | NadafSV     | NadafSV   | NadafSV     | NadafSV     | NadafSV     |            | NadafSV     |             |
| 16    | NARULE TANAVI MAHAVIR       | Tanvi       | Tanvi       | Tanvi     | Tanvi       |             | Tanvi       | Tanvi      | Tanvi       | Tanvi       |
| 17    | OHAL SANGMITRA ARJUN        | S.A.ohal    | S.A.ohal    | S.A.ohal  | S.A.ohal    | S.A.ohal    |             | S.A.ohal   | S.A.ohal    | S.A.ohal    |
| 18    | PATIL SAYALI DILIP          | Psayali     | Psayali     | Psayali   | Psayali     | Psayali     | Psayali     | Psayali    | Psayali     | Psayali     |
| 19    | PATIL SUPRIYA NAMDEO        | Supriya     | Supriya     | Supriya   | Supriya     | Supriya     | Supriya     |            | Supriya     | Supriya     |
| 20    | PUJARI VISHAL BALASO        | Vishal      | Vishal      | Vishal    | Vishal      | Vishal      | Vishal      | Vishal     | Vishal      | Vishal      |



**Yashwantrao Chavan College of Science, Karad**

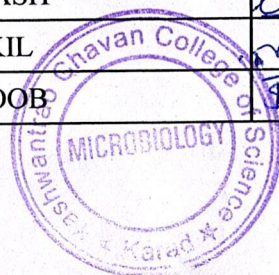
**Department of Microbiology**

**2019-20**

**Certificate course in Industrial Quality Control and Management**

**Theory Attendance**

| Sr No | Name of the Student         | 10/12/19          | 14/12/19          | 15/12/19          | 21/12             | 22/12             | 28/12            | 29/12            | 03/01             | 04/01             |
|-------|-----------------------------|-------------------|-------------------|-------------------|-------------------|-------------------|------------------|------------------|-------------------|-------------------|
| 21    | SAPATE MAYURI MAHADEV       | <u>Mate</u>       | <u>Mate</u>       |                   | <u>Mate</u>       | <u>Mate</u>       | <u>Mate</u>      | <u>Mate</u>      | <u>Mate</u>       | <u>Mate</u>       |
| 22    | SHAIKH MUSTAKEEN ILAHI      | <u>Sul</u>        | <u>Sul</u>        | <u>Sul</u>        | <u>seul</u>       | <u>Sul</u>        | <u>Sul</u>       | <u>Sul</u>       | <u>seul</u>       | <u>Sul</u>        |
| 23    | SUPANE SAGAR DIGAMBAR       | <u>S.D.Sagar</u>  | <u>S.D.Sagar</u>  | <u>S.D.Sagar</u>  | <u>S.D.Sagar</u>  | <u>S.D.Sagar</u>  | <u>S.D.Sagar</u> | <u>S.D.Sagar</u> | <u>S.D.Sagar</u>  | <u>S.D.Sagar</u>  |
| 24    | UDAGIRI SARITA JAYANT       | <u>Udayant</u>    | <u>Udayant</u>    | <u>Udayant</u>    |                   | <u>Udayant</u>    | <u>Udayant</u>   | <u>Udayant</u>   | <u>Udayant</u>    | <u>Udayant</u>    |
| 25    | CHOTHE SHRADHA RAJENDRA     | <u>Chotke</u>     | <u>Chotke</u>     | <u>Chotke</u>     | <u>Chotke</u>     | <u>Chotke</u>     | <u>Chotke</u>    |                  | <u>Chotke</u>     | <u>Chotke</u>     |
| 26    | CHOUGULE BHAKTI SHITAL      | <u>C.B.S</u>      | <u>C.B.S</u>      | <u>C.B.S</u>      | <u>C.B.S</u>      | <u>C.B.S</u>      | <u>C.B.S</u>     | <u>C.B.S</u>     | <u>C.B.S</u>      | <u>C.B.S</u>      |
| 27    | DANGE DIVYA DILIP           | <u>DD</u>         | <u>DD</u>         | <u>DD</u>         | <u>DD</u>         |                   |                  | <u>DD</u>        | <u>DD</u>         |                   |
| 28    | DEVKAR ARCHANA VILAS        | <u>Archav</u>     | <u>Archav</u>     | <u>Archav</u>     |                   | <u>Archav</u>     | <u>Archav</u>    |                  | <u>Archav</u>     |                   |
| 29    | JADHAV POOJA LALSING        | <u>PJADhav</u>    | <u>PJADhav</u>    | <u>PJADhav</u>    | <u>PJADhav</u>    |                   | <u>PJADhav</u>   |                  | <u>PJADhav</u>    |                   |
| 30    | JADHAV PORNIMA PANDURANG    | <u>JP</u>         | <u>JP</u>         | <u>JP</u>         | <u>JP</u>         | <u>JP</u>         | <u>JP</u>        | <u>JP</u>        | <u>JP</u>         | <u>JP</u>         |
| 31    | JADHAV SUJIT ASHOK          | <u>Jadhav</u>     | <u>Jadhav</u>     | <u>Jadhav</u>     |                   | <u>Jadhav</u>     |                  | <u>Jadhav</u>    | <u>Jadhav</u>     | <u>Jadhav</u>     |
| 32    | JADHAV SURAJ MAHADEV        | <u>Sadthav</u>    | <u>Sadthav</u>    | <u>Sadthav</u>    |                   | <u>Sadthav</u>    | <u>Sadthav</u>   | <u>Sadthav</u>   | <u>Sadthav</u>    | <u>Sadthav</u>    |
| 33    | KATKAR MAHENDRA SHASHIKANT  | <u>Mkete</u>      | <u>Mkete</u>      | <u>Mkete</u>      | <u>Mkete</u>      | <u>Mkete</u>      | <u>Mkete</u>     | <u>Mkete</u>     | <u>Mkete</u>      | <u>Mkete</u>      |
| 34    | KUMBHAR AMOL ANANDA         | <u>Kamdh</u>      | <u>Kamdh</u>      |                   | <u>Kamdh</u>      |                   | <u>Kamdh</u>     | <u>Kamdh</u>     |                   | <u>Kamdh</u>      |
| 35    | KUMBHAR GITANJALI PARSHURAM | <u>Kaitanjali</u> | <u>Kaitanjali</u> | <u>Kaitanjali</u> | <u>Kaitanjali</u> | <u>Kaitanjali</u> |                  |                  | <u>Kaitanjali</u> | <u>Kaitanjali</u> |
| 36    | KUMBHAR OMKAR ASHOK         | <u>Kumbhar</u>    | <u>Kumbhar</u>    |                   | <u>Kumbhar</u>    | <u>Kumbhar</u>    |                  | <u>Kumbhar</u>   | <u>Kumbhar</u>    | <u>Kumbhar</u>    |
| 37    | KUMBHAR PRIYANKA SHRIRANG   | <u>KPriyanka</u>  | <u>KPriyanka</u>  | <u>KPriyanka</u>  | <u>KPriyanka</u>  | <u>KPriyanka</u>  | <u>KPriyanka</u> | <u>KPriyanka</u> | <u>KPriyanka</u>  |                   |
| 38    | LOKARE ARUNA PRAKASH        | <u>LArun</u>      | <u>LArun</u>      | <u>LArun</u>      | <u>LArun</u>      |                   | <u>LArun</u>     | <u>LArun</u>     |                   | <u>LArun</u>      |
| 39    | MULLA NAJNEEN SHAKIL        | <u>Mnajeeen</u>   | <u>Mnajeeen</u>   | <u>Mnajeeen</u>   | <u>Mnajeeen</u>   | <u>Mnajeeen</u>   | <u>Mnajeeen</u>  | <u>Mnajeeen</u>  | <u>Mnajeeen</u>   | <u>Mnajeeen</u>   |
| 40    | MULLA SHAKIL MEHBOOB        | <u>Mulla</u>      | <u>Mulla</u>      | <u>Mulla</u>      | <u>Mulla</u>      |                   | <u>Mulla</u>     | <u>Mulla</u>     | <u>Mulla</u>      | <u>Mulla</u>      |



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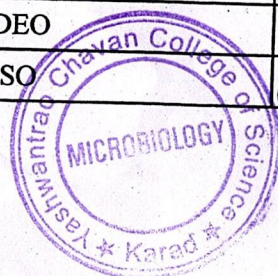
**Department of Microbiology**

2019-20

**Certificate course in Industrial Quality Control and Management**

**Theory Attendance**

| Sr No | Name of the Student         | 10/01       | 11/01       | 11/01       | 17/01       | 17/01       | 18/01      | 24/01       | 25/01       | 31/01       |
|-------|-----------------------------|-------------|-------------|-------------|-------------|-------------|------------|-------------|-------------|-------------|
| 1     | BAMNE VINAYAK JAYSING       | B.V.J       | B.V.J       | B.V.J       | B.V.J       | B.V.J       | B.V.J      | B.V.J       | B.V.J       |             |
| 2     | BHEDASGONKAR SANKET SHIRISH | B.S.S       | B.S.S       | B.S.S       |             | B.S.S       |            | B.S.S       | B.S.S       | B.S.S       |
| 3     | BHOLE DIPALI RAJARAM        | Bhole       | Bhole       | Bhole       | Bhole       | Bhole       |            | Bhole       | Bhole       | Bhole       |
| 4     | BHOSALE KAJAL LALA          | K.L.Bhosale |             | K.L.Bhosale | K.L.Bhosale | K.L.Bhosale |            | K.L.Bhosale | K.L.Bhosale | K.L.Bhosale |
| 5     | BUVA PRIYANKA SHRIKANT      | B.Priyanka  | B.Priyanka  |             | B.Priyanka  | B.Priyanka  | B.Priyanka | B.Priyanka  | B.Priyanka  | B.Priyanka  |
| 6     | CHOUGULE MAYURI RAJENDRA    | M.Yuri      | M.Yuri      |             | M.Yuri      | M.Yuri      | M.Yuri     | M.Yuri      | M.Yuri      | M.Yuri      |
| 7     | GADIWADAR SACHIN VILAS      | S.Gadiwadar | S.Gadiwadar | S.Gadiwadar | S.Gadiwadar | S.Gadiwadar |            | S.Gadiwadar | S.Gadiwadar | S.Gadiwadar |
| 8     | HALADKAR SHAILESH SARJERAO  | Shailesh    | Shailesh    | Shailesh    | Shailesh    |             | Shailesh   | Shailesh    | Shailesh    | Shailesh    |
| 9     | JADHAV ROHIT BALASO         | Jadhave     | Jadhave     | Jadhave     | Jadhave     |             | Jadhave    | Jadhave     | Jadhave     | Jadhave     |
| 10    | KAVAR AMOL VISHWAS          | Kavar       | Kavar       | Kavar       | Kavar       |             | Kavar      | Kavar       | Kavar       | Kavar       |
| 11    | KUMBHAR POOJA SURESH        | Kumbhar     | Kumbhar     | Kumbhar     | Kumbhar     | Kumbhar     | Kumbhar    | Kumbhar     | Kumbhar     | Kumbhar     |
| 12    | MADGUNDI REVATI BALAJI      | Revati      | Revati      | Revati      | Revati      | Revati      | Revati     | Revati      | Revati      | Revati      |
| 13    | MULLA AMIR DILAVAR          | Mulla       | Mulla       | Mulla       |             | Mulla       | Mulla      | Mulla       | Mulla       | Mulla       |
| 14    | MULLA MUNNA KARIN           | Mulla       | Mulla       | Mulla       |             | Mulla       | Mulla      | Mulla       | Mulla       | Mulla       |
| 15    | NADAF SANOVER VAJIR         | Nadaf       | Nadaf       | Nadaf       | Nadaf       |             | Nadaf      | Nadaf       | Nadaf       | Nadaf       |
| 16    | NARULE TANAVI MAHAVIR       | Tarvi       |             | Tarvi       | Tarvi       | Tarvi       | Tarvi      | Tarvi       | Tarvi       | Tarvi       |
| 17    | OHAL SANGMITRA ARJUN        | S.Achal     | S.Achal     | S.Achal     | S.Achal     |             | S.Achal    | S.Achal     | S.Achal     | S.Achal     |
| 18    | PATIL SAYALI DILIP          | Patil       | Patil       | Patil       | Patil       | Patil       | Patil      | Patil       | Patil       | Patil       |
| 19    | PATIL SUPRIYA NAMDEO        | Supriya     | Supriya     | Supriya     | Supriya     |             | Supriya    | Supriya     | Supriya     | Supriya     |
| 20    | PUJARI VISHAL BALASO        | V.Pujari    | V.Pujari    | V.Pujari    | V.Pujari    | V.Pujari    | V.Pujari   | V.Pujari    | V.Pujari    | V.Pujari    |



## Yashwantrao Chavan College of Science, Karad

Department of Microbiology

2019-20

Certificate course in Industrial Quality Control and Management

Theory Attendance

| Sr No | Name of the Student         | 10/01            | 11/01/20         | 11/01/20         | 17/01            | 17/01           | 18/01            | 24/01           | 25/01            | 31/01            |
|-------|-----------------------------|------------------|------------------|------------------|------------------|-----------------|------------------|-----------------|------------------|------------------|
| 21    | SAPATE MAYURI MAHADEV       | <u>MPate</u>     | <u>MPate</u>     | <u>MPate</u>     | <u>MPate</u>     | <u>MPate</u>    | <u>MPate</u>     | <u>MPate</u>    | <u>MPate</u>     | <u>MPate</u>     |
| 22    | SHAIKH MUSTAKEEN ILAHI      | <u>Seul</u>      |                  | <u>Seul</u>      | <u>Seul</u>      | <u>Seul</u>     | <u>Seul</u>      | <u>Seul</u>     | <u>Seul</u>      | <u>Seul</u>      |
| 23    | SUPANE SAGAR DIGAMBAR       | <u>SDSagar</u>   | <u>SDSagar</u>   | <u>SDSagar</u>   | <u>SDSagar</u>   | <u>SDSagar</u>  | <u>SDSagar</u>   | <u>SDSagar</u>  | <u>SDSagar</u>   | <u>SDSagar</u>   |
| 24    | UDAGIRI SARITA JAYANT       | <u>UJayant</u>   | <u>UJayant</u>   | <u>UJayant</u>   | <u>UJayant</u>   |                 | <u>UJayant</u>   | <u>UJayant</u>  | <u>UJayant</u>   | <u>UJayant</u>   |
| 25    | CHOTHE SHRADHA RAJENDRA     | <u>SRChote</u>   | <u>SRChote</u>   | <u>SRChote</u>   |                  | <u>SRChote</u>  | <u>SRChote</u>   | <u>SRChote</u>  | <u>SRChote</u>   | <u>SRChote</u>   |
| 26    | CHOUGULE BHAKTI SHITAL      | <u>C.B.S</u>     | <u>C.B.S</u>     | <u>C.B.S</u>     | <u>C.B.S</u>     | <u>C.B.S</u>    |                  | <u>C.B.S</u>    | <u>C.B.S</u>     | <u>C.B.S</u>     |
| 27    | DANGE DIVYA DILIP           | <u>DD</u>        |                  | <u>DD</u>        |                  | <u>DD</u>       | <u>DD</u>        |                 | <u>DD</u>        |                  |
| 28    | DEVKAR ARCHANA VILAS        | <u>DArchana</u>  | <u>DArchana</u>  | <u>DArchana</u>  | <u>DArchana</u>  |                 | <u>DArchana</u>  |                 | <u>DArchana</u>  |                  |
| 29    | JADHAV POOJA LALSING        | <u>VPJadhav</u>  | <u>VPJadhav</u>  | <u>VPJadhav</u>  | <u>VPJadhav</u>  | <u>VPJadhav</u> | <u>VPJadhav</u>  |                 |                  | <u>VPJadhav</u>  |
| 30    | JADHAV PORNIMA PANDURANG    | <u>JP</u>        | <u>JP</u>        | <u>JP</u>        | <u>JP</u>        | <u>JP</u>       | <u>JP</u>        | <u>JP</u>       | <u>JP</u>        | <u>JP</u>        |
| 31    | JADHAV SUJIT ASHOK          | <u>JS</u>        | <u>JS</u>        | <u>JS</u>        | <u>JS</u>        | <u>JS</u>       |                  | <u>JS</u>       | <u>JS</u>        | <u>JS</u>        |
| 32    | JADHAV SURAJ MAHADEV        | <u>SJadhav</u>   | <u>SJadhav</u>   | <u>SJadhav</u>   | <u>SJadhav</u>   | <u>SJadhav</u>  |                  | <u>SJadhav</u>  | <u>SJadhav</u>   | <u>SJadhav</u>   |
| 33    | KATKAR MAHENDRA SHASHIKANT  | <u>MKatar</u>    | <u>MKatar</u>    | <u>MKatar</u>    | <u>MKatar</u>    |                 | <u>MKatar</u>    | <u>MKatar</u>   | <u>MKatar</u>    | <u>MKatar</u>    |
| 34    | KUMBHAR AMOL ANANDA         | <u>KAmol</u>     | <u>KAmol</u>     | <u>KAmol</u>     |                  | <u>KAmol</u>    |                  | <u>KAmol</u>    | <u>KAmol</u>     | <u>KAmol</u>     |
| 35    | KUMBHAR GITANJALI PARSHURAM | <u>GPanjali</u>  | <u>GPanjali</u>  | <u>GPanjali</u>  | <u>GPanjali</u>  |                 | <u>GPanjali</u>  |                 | <u>GPanjali</u>  |                  |
| 36    | KUMBHAR OMKAR ASHOK         | <u>AKumbhar</u>  | <u>AKumbhar</u>  | <u>AKumbhar</u>  | <u>AKumbhar</u>  | <u>AKumbhar</u> | <u>AKumbhar</u>  | <u>AKumbhar</u> | <u>AKumbhar</u>  | <u>AKumbhar</u>  |
| 37    | KUMBHAR PRIYANKA SHRIRANG   | <u>PKBiyanka</u> | <u>PKBiyanka</u> | <u>PKBiyanka</u> | <u>PKBiyanka</u> |                 | <u>PKBiyanka</u> |                 | <u>PKBiyanka</u> | <u>PKBiyanka</u> |
| 38    | LOKARE ARUNA PRAKASH        | <u>LArun</u>     | <u>LArun</u>     |                  |                  | <u>LArun</u>    | <u>LArun</u>     | <u>LArun</u>    | <u>LArun</u>     | <u>LArun</u>     |
| 39    | MULLA NAJNEEN SHAKIL        | <u>Mnajeen</u>   | <u>Mnajeen</u>   | <u>Mnajeen</u>   | <u>Mnajeen</u>   | <u>Mnajeen</u>  | <u>Mnajeen</u>   | <u>Mnajeen</u>  | <u>Mnajeen</u>   | <u>Mnajeen</u>   |
| 40    | MULLA SHAKIL MEHBOOB        | <u>SMulla</u>    | <u>SMulla</u>    | <u>SMulla</u>    | <u>SMulla</u>    |                 | <u>SMulla</u>    | <u>SMulla</u>   | <u>SMulla</u>    | <u>SMulla</u>    |

## Yashwantrao Chavan College of Science, Karad

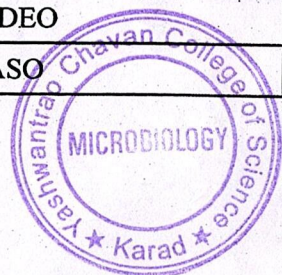
## Department of Microbiology

2019-20

## Certificate course in Industrial Quality Control and Management

## Theory Attendance

| Sr No | Name of the Student         | 01/02/20   | 04/02/20    | 07/02       | 08/02      | 08/02       | 14/02      | 15/02       | 21/02       | 24/02       |
|-------|-----------------------------|------------|-------------|-------------|------------|-------------|------------|-------------|-------------|-------------|
| 1     | BAMNE VINAYAK JAYSING       | B.V.J      | B.V.J       | B.V.J       | B.V.J      | B.V.J       |            | B.V.J       | B.V.J       |             |
| 2     | BHEDASGONKAR SANKET SHIRISH |            | B.S.S       | B.S.S       |            | B.S.S       | B.S.S      |             | B.S.S       | B.S.S       |
| 3     | BHOLE DIPALI RAJARAM        | Bhole      | Bhole       |             | Bhole      | Bhole       | Bhole      | Bhole       |             | Bhole       |
| 4     | BHOSALE KAJAL LALA          |            | K.L.Bhosale | K.L.Bhosale |            | K.L.Bhosale |            | K.L.Bhosale | K.L.Bhosale | K.L.Bhosale |
| 5     | BUVA PRIYANKA SHRIKANT      | B.Priyanka | B.Priyanka  | B.Priyanka  | B.Priyanka | B.Priyanka  | B.Priyanka | B.Priyanka  |             | B.Priyanka  |
| 6     | CHOUGULE MAYURI RAJENDRA    | M.Yuri     | M.Yuri      | M.Yuri      | M.Yuri     | M.Yuri      |            | M.Yuri      | M.Yuri      | M.Yuri      |
| 7     | GADIWADAR SACHIN VILAS      | S.Gadwade  | S.Gadwade   | S.Gadwade   | S.Gadwade  | S.Gadwade   |            | S.Gadwade   | S.Gadwade   | S.Gadwade   |
| 8     | HALADKAR SHAILESH SARJERAO  | Shailesh   | Shailesh    | Shailesh    |            | Shailesh    |            | Shailesh    | Shailesh    | Shailesh    |
| 9     | JADHAV ROHIT BALASO         | Jadhav     | Jadhav      | Jadhav      | Jadhav     | Jadhav      | Jadhav     | Jadhav      | Jadhav      | Jadhav      |
| 10    | KAVAR AMOL VISHWAS          | Kavar      | Kavar       | Kavar       | Kavar      |             | Kavar      | Kavar       | Kavar       | Kavar       |
| 11    | KUMBHAR POOJA SURESH        | Kumbhar    | Kumbhar     | Kumbhar     | Kumbhar    | Kumbhar     | Kumbhar    | Kumbhar     | Kumbhar     | Kumbhar     |
| 12    | MADGUNDI REVATI BALAJI      | M.R.       | M.R.        | M.R.        | M.R.       | M.R.        | M.R.       | M.R.        | M.R.        | M.R.        |
| 13    | MULLA AMIR DILAVAR          | A.Mulla    | A.Mulla     | A.Mulla     | A.Mulla    | A.Mulla     |            | A.Mulla     |             | A.Mulla     |
| 14    | MULLA MUNNA KARIN           | Mulla      |             | Mulla       | Mulla      | Mulla       |            | Mulla       | Mulla       | Mulla       |
| 15    | NADAF SANOVER VAJIR         | N.N.       | N.N.        | N.N.        | N.N.       | N.N.        |            | N.N.        | N.N.        |             |
| 16    | NARULE TANAVI MAHAVIR       | T.N.       | T.N.        |             | T.N.       | T.N.        | T.N.       | T.N.        | T.N.        |             |
| 17    | OHAL SANGMITRA ARJUN        | S.A.Ohal   | S.A.Ohal    | S.A.Ohal    | S.A.Ohal   | S.A.Ohal    | S.A.Ohal   |             | S.A.Ohal    |             |
| 18    | PATIL SAYALI DILIP          | Pati       | Pati        | Pati        |            | Pati        | Pati       | Pati        | Pati        | Pati        |
| 19    | PATIL SUPRIYA NAMDEO        | S.P.       | S.P.        | S.P.        | S.P.       | S.P.        |            | S.P.        | S.P.        |             |
| 20    | PUJARI VISHAL BALASO        | V.P.       | V.P.        | V.P.        | V.P.       | V.P.        | V.P.       | V.P.        | V.P.        | V.P.        |



**Yashwantrao Chavan College of Science, Karad**

**Department of Microbiology**

**2019-20**

**Certificate course in Industrial Quality Control and Management**

**Theory Attendance**

| Sr No | Name of the Student         | 01/02             | 01/02             | 07/02             | 08/02             | 08/02             | 14/02            | 15/02             | 21/02             | 24/02            |
|-------|-----------------------------|-------------------|-------------------|-------------------|-------------------|-------------------|------------------|-------------------|-------------------|------------------|
| 21    | SAPATE MAYURI MAHADEV       | <u>Mate</u>       | <u>Mate</u>       | <u>Mate</u>       | <u>Mate</u>       | <u>Mate</u>       | <u>Mate</u>      |                   | <u>Mate</u>       | <u>Mate</u>      |
| 22    | SHAIKH MUSTAKEEN ILAHI      | <u>Sul</u>        | <u>Sul</u>        | <u>Sul</u>        | <u>Sul</u>        | <u>Sul</u>        | <u>Sul</u>       | <u>Sul</u>        | <u>Sul</u>        | <u>Sul</u>       |
| 23    | SUPANE SAGAR DIGAMBAR       | <u>SDigambar</u>  | <u>SDigambar</u>  | <u>SDigambar</u>  | <u>SDigambar</u>  | <u>SDigambar</u>  | <u>SDigambar</u> | <u>SDigambar</u>  | <u>SDigambar</u>  | <u>SDigambar</u> |
| 24    | UDAGIRI SARITA JAYANT       | <u>Jayant</u>     |                   | <u>Jayant</u>     | <u>Jayant</u>     | <u>Jayant</u>     | <u>Jayant</u>    | <u>Jayant</u>     |                   | <u>Jayant</u>    |
| 25    | CHOTHE SHRADHA RAJENDRA     | <u>Rchotke</u>    | <u>Rchotke</u>    |                   | <u>Rchotke</u>    | <u>Rchotke</u>    | <u>Rchotke</u>   | <u>Rchotke</u>    | <u>Rchotke</u>    | <u>Rchotke</u>   |
| 26    | CHOUGULE BHAKTI SHITAL      | <u>C.B.S</u>      | <u>C.B.S</u>      | <u>C.B.S</u>      | <u>C.B.S</u>      | <u>C.B.S</u>      |                  | <u>C.B.S</u>      | <u>C.B.S</u>      | <u>C.B.S</u>     |
| 27    | DANGE DIVYA DILIP           | <u>DD</u>         | <u>DD</u>         |                   | <u>DD</u>         |                   |                  | <u>DD</u>         |                   | <u>DD</u>        |
| 28    | DEVKAR ARCHANA VILAS        | <u>Devkar</u>     | <u>Devkar</u>     | <u>Devkar</u>     | <u>Devkar</u>     | <u>Devkar</u>     | <u>Devkar</u>    | <u>Devkar</u>     | <u>Devkar</u>     | <u>Devkar</u>    |
| 29    | JADHAV POOJA LALSING        | <u>PJadhav</u>    | <u>PJadhav</u>    | <u>PJadhav</u>    | <u>PJadhav</u>    | <u>PJadhav</u>    | <u>PJadhav</u>   | <u>PJadhav</u>    | <u>PJadhav</u>    | <u>PJadhav</u>   |
| 30    | JADHAV PORNIMA PANDURANG    | <u>JPandur</u>    | <u>JPandur</u>    | <u>JPandur</u>    | <u>JPandur</u>    | <u>JPandur</u>    | <u>JPandur</u>   | <u>JPandur</u>    | <u>JPandur</u>    | <u>JPandur</u>   |
| 31    | JADHAV SUJIT ASHOK          | <u>Jadhav</u>     | <u>Jadhav</u>     | <u>Jadhav</u>     | <u>Jadhav</u>     | <u>Jadhav</u>     | <u>Jadhav</u>    |                   | <u>Jadhav</u>     | <u>Jadhav</u>    |
| 32    | JADHAV SURAJ MAHADEV        | <u>SJadhav</u>    | <u>SJadhav</u>    | <u>SJadhav</u>    |                   | <u>SJadhav</u>    | <u>SJadhav</u>   | <u>SJadhav</u>    | <u>SJadhav</u>    | <u>SJadhav</u>   |
| 33    | KATKAR MAHENDRA SHASHIKANT  | <u>Mkatkar</u>    | <u>Mkatkar</u>    | <u>Mkatkar</u>    | <u>Mkatkar</u>    |                   | <u>Mkatkar</u>   | <u>Mkatkar</u>    | <u>Mkatkar</u>    | <u>Mkatkar</u>   |
| 34    | KUMBHAR AMOL ANANDA         |                   | <u>Kamola</u>     | <u>Kamola</u>     | <u>Kamola</u>     | <u>Kamola</u>     |                  | <u>Kamola</u>     |                   | <u>Kamola</u>    |
| 35    | KUMBHAR GITANJALI PARSHURAM | <u>Rgitanjali</u> | <u>Rgitanjali</u> | <u>Rgitanjali</u> | <u>Rgitanjali</u> | <u>Rgitanjali</u> |                  | <u>Rgitanjali</u> | <u>Rgitanjali</u> |                  |
| 36    | KUMBHAR OMKAR ASHOK         | <u>Okumbhar</u>   | <u>Okumbhar</u>   | <u>Okumbhar</u>   | <u>Okumbhar</u>   | <u>Okumbhar</u>   | <u>Okumbhar</u>  | <u>Okumbhar</u>   | <u>Okumbhar</u>   | <u>Okumbhar</u>  |
| 37    | KUMBHAR PRIYANKA SHRIRANG   | <u>KPriyanka</u>  | <u>KPriyanka</u>  | <u>KPriyanka</u>  |                   | <u>KPriyanka</u>  | <u>KPriyanka</u> |                   | <u>KPriyanka</u>  | <u>KPriyanka</u> |
| 38    | LOKARE ARUNA PRAKASH        | <u>LArun</u>      | <u>LArun</u>      | <u>LArun</u>      | <u>LArun</u>      | <u>LArun</u>      | <u>LArun</u>     | <u>LArun</u>      | <u>LArun</u>      | <u>LArun</u>     |
| 39    | MULLA NAJNEEN SHAKIL        | <u>MNajneen</u>   | <u>MNajneen</u>   | <u>MNajneen</u>   | <u>MNajneen</u>   | <u>MNajneen</u>   | <u>MNajneen</u>  | <u>MNajneen</u>   | <u>MNajneen</u>   | <u>MNajneen</u>  |
| 40    | MULLA SHAKIL MEHBOOB        | <u>Mulla</u>      | <u>Mulla</u>      | <u>Mulla</u>      |                   | <u>Mulla</u>      | <u>Mulla</u>     |                   | <u>Mulla</u>      | <u>Mulla</u>     |

**YASHWANTRAO CHAVAN COLLEGE OF SCIENCE, KARAD****Department of Microbiology**

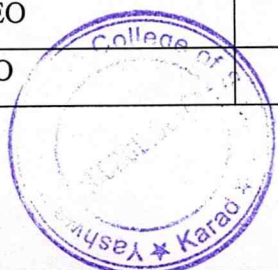
Short Term Course

**“Industrial Quality Control Microbiology”**

Year 2019- 2020

**Result**

| Sr No. | Name of Students            | Theory Marks Obtained out of 40 | Practical Marks Obtained of 60 | Percentage |
|--------|-----------------------------|---------------------------------|--------------------------------|------------|
| 1.     | BAMNE VINAYAK JAYSING       | 34                              | 56                             | 90         |
| 2.     | BHEDASGONKAR SANKET SHIRISH | 32                              | 54                             | 86         |
| 3.     | BHOLE DIPALI RAJARAM        | 28                              | 52                             | 80         |
| 4.     | BHOSALE KAJAL LALA          | 35                              | 54                             | 89         |
| 5.     | BUVA PRIYANKA SHRIKANT      | 30                              | 58                             | 88         |
| 6.     | CHOUGULE MAYURI RAJENDRA    | 31                              | 54                             | 85         |
| 7.     | GADIWADAR SACHIN VILAS      | 28                              | 52                             | 80         |
| 8.     | HALADKAR SHAILESH SARJERAO  | 32                              | 56                             | 88         |
| 9.     | JADHAV ROHIT BALASO         | 26                              | 53                             | 79         |
| 10.    | KAVAR AMOL VISHWAS          | 32                              | 52                             | 84         |
| 11.    | KUMBHAR POOJA SURESH        | 33                              | 55                             | 88         |
| 12.    | MADGUNDI REVATI BALAJI      | 34                              | 57                             | 91         |
| 13.    | MULLA AMIR DILAVAR          | 36                              | 53                             | 89         |
| 14.    | MULLA MUNNA KARIN           | 39                              | 51                             | 90         |
| 15.    | NADAF SANOVER VAJIR         | 34                              | 53                             | 87         |
| 16.    | NARULE TANAVI MAHAVIR       | 38                              | 52                             | 90         |
| 17.    | OHAL SANGMITRA ARJUN        | 34                              | 51                             | 85         |
| 18.    | PATIL SAYALI DILIP          | 38                              | 57                             | 95         |
| 19.    | PATIL SUPRIYA NAMDEO        | 36                              | 55                             | 91         |
| 20.    | PUJARI VISHAL BALASO        | 34                              | 56                             | 90         |



|     |                               |    |    |    |
|-----|-------------------------------|----|----|----|
| 21. | PATIL PRAGATI SANJAY          | 32 | 57 | 89 |
| 22. | PATIL PRIYANKA SHRIKANT       | 36 | 53 | 89 |
| 23. | SATARMAKER TANJUM IBRAHIM     | 30 | 58 | 88 |
| 24. | SHINDE TEJASWINI SUBHASH      | 32 | 59 | 91 |
| 25. | SHINDE YUKTA YUVARAJ          | 36 | 54 | 90 |
| 26. | WATEGAONKAR SWAPNALI NIVRUTTI | 34 | 53 | 87 |
| 27. | ADSUL RUSHIKESH SANJAY        | 32 | 51 | 83 |
| 28. | AMBALE VAIBHAVI SAGAR         | 34 | 52 | 86 |
| 29. | BELEKAR PRASAD VISHWANATH     | 32 | 59 | 91 |
| 30. | CHOUGALE OMKAR SHASHIKANT     | 28 | 55 | 83 |
| 31. | DESHKUMKH MANASI NARESH       | 32 | 57 | 89 |
| 32. | GHOLAP MONALI ANIL            | 36 | 56 | 92 |
| 33. | HAKE SHWETA NARENDRA          | 38 | 54 | 92 |
| 34. | KAMBLE MRUNAL BABASO          | 28 | 57 | 85 |
| 35. | KAMBLE MRUNALI BABURAV        | 24 | 53 | 77 |
| 36. | KOLI GANESH RAJENDRA          | 32 | 54 | 86 |
| 37. | KUMBHAR VIRESH VIJAY          | 34 | 53 | 87 |
| 38. | MUJAWAR AIMAN TANVEER         | 26 | 51 | 77 |
| 39. | MUNDE RAMESHWAR BALAJI        | 34 | 57 | 91 |
| 40. | NADDAF JEENAT MAKASOOD        | 34 | 53 | 87 |

  
Course Co-ordinator

  
HEAD  
DEPARTMENT OF MICROBIOLOGY



**Yashwantrao Chavan College of Science, Karad**

**Department of Microbiology**

**Short term Course –Industrial Quality Control in Microbiology 2019-20**

**CO Attainment**

| Average Attainment | Target Attainment level | Remark          |
|--------------------|-------------------------|-----------------|
| 3                  | Level 5                 | Target achieved |

| Course code | Course Title                                      | % of students above 60 % for practical examination | Level of attainment for practical examination | % of students above 80 % for theory examination | Level of attainment | Attainment of course(Theory & Practical) |
|-------------|---------------------------------------------------|----------------------------------------------------|-----------------------------------------------|-------------------------------------------------|---------------------|------------------------------------------|
| Short term  | <b>Industrial Quality Control in Microbiology</b> | 100.00                                             | 3                                             | 92.50                                           | 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 CHAVAV COLLEGE OF SCIENCE, KARAD**

**Department of Microbiology**

Short Term Course

**“Industrial Quality Control Microbiology.”**

Year 2019 - 2020

| Sr. No. | Name of Students            | Signature<br>(Certificate received) |
|---------|-----------------------------|-------------------------------------|
| 1       | BAMNE VINAYAK JAYSING       | <u>B.V.I.</u>                       |
| 2       | BHEDASGONKAR SANKET SHIRISH | <u>B.S.S.</u>                       |
| 3       | BHOLE DIPALI RAJARAM        | <u>Bhole</u>                        |
| 4       | BHOSALE KAJAL LALA          | <u>K.Bhosale</u>                    |
| 5       | BUVA PRIYANKA SHRIKANT      | <u>P.Priyanka</u>                   |
| 6       | CHOUGULE MAYURI RAJENDRA    | <u>Mayuri</u>                       |
| 7       | GADIWADAR SACHIN VILAS      | <u>Sachinwadar</u>                  |
| 8       | HALADKAR SHAILESH SARJERAO  | <u>Shailesh</u>                     |
| 9       | JADHAV ROHIT BALASO         | <u>Jadhav R.</u>                    |
| 10      | KAVAR AMOL VISHWAS          | <u>Amol</u>                         |
| 11      | KUMBHAR POOJA SURESH        | <u>Kumbhar P.</u>                   |
| 12      | MADGUNDI REVATI BALAJI      | <u>R.B.Madgundi</u>                 |
| 13      | MULLA AMIR DILAVAR          | <u>Amir Mulla</u>                   |
| 14      | MULLA MUNNA KARIN           | <u>Mulla</u>                        |
| 15      | NADAF SANOVER VAJIR         | <u>Nadaf S.V.</u>                   |
| 16      | NARULE TANAVI MAHAVIR       | <u>Tanvi</u>                        |
| 17      | OHAL SANGMITRA ARJUN        | <u>S.A.ohal</u>                     |
| 18      | PATIL SAYALI DILIP          | <u>S.Patil</u>                      |
| 19      | PATIL SUPRIYA NAMDEO        | <u>Supriya</u>                      |
| 20      | PUJARI VISHAL BALASO        | <u>V.Pujari</u>                     |

  
Course Co-ordinator



  
HEAD  
DEPARTMENT OF MICROBIOLOGY

# YASHWANTRAO CHAVAV COLLEGE OF SCIENCE, KARAD

## Department of Microbiology

### Short Term Course

### "Industrial Quality Control Microbiology."

Year 2019 - 2020

Name of the Enrolled Students

| Sr. No. | Name of Students            | Signature (Certificate received) |
|---------|-----------------------------|----------------------------------|
| 21      | SAPATE MAYURI MAHADEV       | <u>Sapate</u>                    |
| 22      | SHAIKH MUSTAKEEN ILAHI      | <u>guf</u>                       |
| 23      | SUPANE SAGAR DIGAMBAR       | <u>SDam</u>                      |
| 24      | UDAGIRI SARITA JAYANT       | <u>Sudwadi</u>                   |
| 25      | CHOTHE SHRADHA RAJENDRA     | <u>SDurthar.</u>                 |
| 26      | CHOUGULE BHAKTI SHITAL      | <u>C. B.S.</u>                   |
| 27      | DANGE DIVYA DILIP           | <u>Divya</u>                     |
| 28      | DEVKAR ARCHANA VILAS        | <u>Devkar Archana</u>            |
| 29      | JADHAV POOJA LALSING        | <u>Ribem</u>                     |
| 30      | JADHAV PORNIMA PANDURANG    | <u>Padhav</u>                    |
| 31      | JADHAV SUJIT ASHOK          | <u>S. Jadhav</u>                 |
| 32      | JADHAV SURAJ MAHADEV        | <u>Sadhar</u>                    |
| 33      | KATKAR MAHENDRA SHASHIKANT  | <u>Mkatkar</u>                   |
| 34      | KUMBHAR AMOL ANANDA         | <u>Kumbar</u>                    |
| 35      | KUMBHAR GITANJALI PARSHURAM | <u>Gitanjali</u>                 |
| 36      | KUMBHAR OMKAR ASHOK         | <u>Komkar</u>                    |
| 37      | KUMBHAR PRIYANKA SHRIRANG   | <u>kumbhar</u>                   |
| 38      | LOKARE ARUNA PRAKASH        | <u>L. Ary.</u>                   |
| 39      | MULLA NAJNEEN SHAKIL        | <u>Mhajneen.</u>                 |
| 40      | MULLA SHAKIL MEHBOOB        | <u>Mulla</u>                     |

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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. Haladkar Shailesh Sayjerao

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

Industrial Quality Control Microbiology conducted by the department of

during the academic year 2019 - 2020

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 in Microbiology (2019-20)**

| Course Code                                             | Short Term                                                                                                       | Course: | Industrial Quality Control in Microbiology |  |
|---------------------------------------------------------|------------------------------------------------------------------------------------------------------------------|---------|--------------------------------------------|--|
| Prepared by                                             | Mr. K. A. Sutar                                                                                                  | Date    | 2019-20                                    |  |
| Target Group: M.Sc. II                                  |                                                                                                                  |         |                                            |  |
| Pre-requisites                                          | • Basic (10+2) knowledge of science faculty + good analytical skills.<br>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..                                                           |         |                                            |  |
|                                                         |                                                                                                                  |         |                                            |  |



**YASHWANTRAO CHAVAN COLLEGE OF SCIENCE,  
KARAD**

**Department of Microbiology**

Short Term Course

**“Industrial Quality Control Microbiology”**

Year 2019- 2020

**REPORT**

|                                                   |                                                                                                                                                                                                                                                                                                                                                                                                                        |
|---------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Name of the Course                                | <b>“Industrial Quality Control Microbiology”</b>                                                                                                                                                                                                                                                                                                                                                                       |
| Class                                             | M.Sc.II                                                                                                                                                                                                                                                                                                                                                                                                                |
| Date                                              | 2019-20                                                                                                                                                                                                                                                                                                                                                                                                                |
| 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"><li>1. Students will get overall knowledge about the Industrial Quality Control Department</li><li>2. Hands on different instruments used in Industrial microbiology laboratory.</li><li>3. Improve students skill for handling and teamwork skills</li><li>4. This will create career opportunity for students in government laboratory as well as in private industries.</li></ol> |



**Course Coordinator**



**Head**

**Department of Microbiology**

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**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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