



**SONOPANT DANDEKAR ARTS, V.S. APTE  
COMMERCE AND M.H. MEHTA SCIENCE  
COLLEGE, PALGHAR**

**DEPARTMENT OF CHEMISTRY**

**Certificate Course in Quality Control and  
Instrumentation**

**Under the Aegis of  
Centre for Excellence and Innovation**

**Academic Year: 2018 - 2019**

**Prof. Mahesh Deshmukh  
CFEI – Chairman**

**Dr. Kiran Save  
Principal**

# Certificate Course in Quality Control and Instrumentation

## Report 2018-2019

### INDEX

<b>Sr. No.</b>	<b>Particular</b>	<b>Page No.</b>
1	Introduction and Title of Programme	2
2	Permission Letter	3
3	Syllabus	4
4	Notice – Batch 1	5
5	Enrollment List – Batch 1	6-7
6	Notice – Batch 2	8
7	Enrollment List – Batch 2	9-10
8	Attendance Report	11-14
9	Compliance Report	15
10	Feedback Form	16
11	Photo	17
12	Sample Certificates	18-20

# **Certificate course in Quality Control and Instrumentation**

**Duration:** 48 hours

## **Features of the course:**

- Specially designed to give hands on training of sophisticated instruments used in industries
- Delivered by experts from the industry and experience faculties.
- Covered various processes used in quality control lab of pharmaceutical industries.

## **Objective:**

- To learn various processes and terminology used in QC lab of pharmaceutical industries.
- To learn fundamental principle, theories of various sophisticated instruments.
- To develop skills of handling various analytical instruments.
- To understand the basic calculations required in instrumental operation and preparation of solutions.
- To explore proper record keeping in laboratory.

## **Eligibility:**

Pass B.Sc. Chemistry

## **Certification:**

Certificate will be provided on the basis of practical examination.

Mr. Deepesh Gharat – Manager, QA, Lupin Limited, Tarapur

## **Learning outcome:**

Students will

- Acquire detailed theoretical knowledge as well as practical experience for handling various instruments used in QC laboratory.
- Students will develop practical skills of handling and troubleshooting instruments.
- Students will be able to co-relate the concepts and apply in practical field.

Date: 31<sup>st</sup> July, 2018

To,

The Principal,

Sonopant Dandekar Arts, V.S. Apte Commerce and

M.H. Mehta Science College,

Palghar

**Subject: Approval for Certificate Course in Quality Control and Instrumentation (M.Sc.)**

Respected Sir,

For developing instrumental skills in students, we have designed certificate course for the class of M.Sc. The course is aimed at enhancing skills and knowledge of students in basic instrumental techniques. This course will benefit the students by providing them with an opportunity to develop their expertise in this area. Their instrument and apparatus handling skills will be improved by the Certificate Course in Quality Control and Instrumentation for M.Sc. course.

The Certificate Course will be offered in two batches: The first batch in the August 2018 and the second batch in March 2019.

The details are provided along with this letter. I request you to kindly grant the permission to start this course.

Thanking you.

Yours faithfully



Dr. Shirish Pitale  
Head, Department of Chemistry

Approved  


# SYLLABUS

## 1. Theoretical Part

Sr. No.	Content	Hours required
1	Good Laboratory Practices	2
2	Safety Precautions	2
3	Good Documentation Practices	2
4	Chemical Calculations	2
5	Introduction to pharmacopeia	2
	<b>Total</b>	<b>10</b>

## 2. Practical Part

### A. Instrumentation

Sr. No.	Content	Hours required
2	High Performance Chromatography	18
3	UV-Visible Spectroscopy	6
	<b>Total</b>	<b>24</b>

### B. Wet Chemistry

Sr. No.	Content	Hours required
1	Solubility	4
2	Preparation of Volumetric Solutions	6
4	Specific gravity	4
	<b>Total</b>	<b>14</b>

*Sonopant Dandekar Shikshan Mandalis's*  
**Sonopant Dandekar Arts, V. S. Apte Commerce and M.H. Mehta Science  
College, Palghar, Dist: Palghar  
ACADEMIC YEAR 2018-19**

**Date: 6<sup>th</sup> August, 2018**

**DEPARTMENT OF CHEMISTRY IN COLLABORATION WITH  
CENTRE FOR EXCELLENCE AND INNOVATION**

**NOTICE**

All the F.Y.BSc. students are hereby informed that their **Certificate Course in Quality Control and Instrumentation of Batch - 1** will begin from **24<sup>th</sup> August, 2018**.

The detail scheduled will be available with the course coordinator.

Interested students can enroll by filling the application form which is available in the **staffroom, ground floor, Chemistry Building**.

After successful completion of the course, participants will be awarded with certificates from the college.



**Dr. Shirish Pitale**  
**Department of Chemistry - HOD**

## STUDENT ENROLMENT LIST – BATCH 1

### STUDENT ENROLMENT LIST - BATCH 1

ROLL NO.	NAME OF THE STUDENT
1	BHUSARA SONALI CHANDRAKANT
2	PATIL SONAL CHANDRAKANT
3	PATIL VINIT PRALHAD
4	BHANDIRGE RAHUL ANIL
5	GHARAT MEHANK RAMESH
6	GHARAT PRAJWAL PANDURANG
7	PATIL NIRBHAY VILAS
8	VARKHANDA POOJA PRAVIN
9	PATIL DHANASHREE PRATAPRAO
10	THAPA SONAM LALBHADUR
11	PALAV AMAR ANAND
12	DHARMADHIKARI DELESH HERAMB
13	PAL RANI THAKURPRASAD
14	LAHANGE DIVYA SHAILESH
15	JADHAV PALLAVI ARVIND
16	ROY TANVI ROBIN
17	THAKUR ANKITA BABLU
18	YADAV RANU RAMASARE
19	SAVE SHREYASI SHRIKANT
20	BARI MOHIT KISHOR
21	RAUT DHANASHREE SHANKAR
22	KADU YADNESH VASANT
23	KADU TARAL DATTATREY
24	CHAVAN HIRAN PARBHAT
25	SAVE PURVA SANJAY
26	MHATRE VIPRA VISHWAS
27	LADE JAI VILAS
28	PAVIL PRITI ANKUSH
29	SACHAN GARIMA ROHIT
30	YADAV NILESH KOMAI



ROLL NO.	NAME OF THE STUDENT
31	TANDEL ULHAS MOHAN
32	GAVHANE MONIKA SANDIPAN
33	KADAM APEKSHA MADHUKAR
34	TANDEL KAUSTUBH BALKRISHNA
35	BHOJANE DEEPAK VISHNU
36	MAHTO ANITA NANDKISHOR
37	MISHRA SUHASINI RADHESHYAM
38	MORE MEGHANA LAVKUSH
39	MORE HIMANI SANJAY
40	YADAV SAROJKUMARI TUFANI





*Sonopant Dandekar Shikshan Mandalis's*

**Sonopant Dandekar Arts, V. S. Apte Commerce and M.H. Mehta Science  
College, Palghar, Dist: Palghar**

**ACADEMIC YEAR 2018-19**

**Date: 26<sup>th</sup> February, 2019**

**DEPARTMENT OF CHEMISTRY IN COLLABORATION WITH  
CENTRE FOR EXCELLENCE AND INNOVATION**

**NOTICE**

All the F.Y.BSc. students are hereby informed that their **Certificate Course in Quality Control and Instrumentation of Batch - 2** will begin from **1<sup>st</sup> March, 2019**.

The detail scheduled will be available with the course coordinator.

Interested students can enroll by filling the application form which is available in the **staffroom, ground floor, Chemistry Building**.

After successful completion of the course, participants will be awarded with certificates from the college.



**Dr. Shirish Pitale**

**Department of Chemistry - HOD**

## STUDENT ENROLMENT LIST – BATCH 2

### STUDENT ENROLMENT LIST - BATCH 2

ROLL NO.	NAME OF THE STUDENT
41	MORE UTKARSHA SHIVAJI
42	YADAV ANUPKUMAR SHIVSHANKAR
43	SATVI POOJA PUNDALIK
44	SHARMA POOJAKUMARU LAVKUMAR
45	WARKE KIRTI BHUSHAN
46	NAIR SREELAKSHMI RAJASHEKHARAN g
47	LOKHANDE RIYA KAMALAKAR
48	DODKA NEHA RAJESH
49	GAVIT PRAJAKTA MAHADEV
50	PITHOLE DARSHANA YASHAWANT
51	WANGAD NITIN TRYMBAK
52	SHAIKH AASMA GULAM DASTAGIR
53	PATIL KRANTIKUMAR KISHOR
54	GURJAR NARENDRA SOHANLAL
55	PATEL MAYANK SUBODH
56	GHATAL GANGARAM PANGLYA
57	NIMBOIKAR ASHWINI
58	KHARDIKAR DIPTI NARESH
59	SARITA ASHWIN
60	MAYOR SURESH
61	MACHHI HARSHA VASU
62	SHANWAR MONIKA BABU
63	KAVATE DARSHANA RAMESH
64	TAIHA NILESH RADAKA
65	KOLI SANJAY DEVDATTA
66	TUMBAOA VISHAWANATH RAJU
67	PAGI DIPAK JANYA
68	MACHHI KARAN VISHWANATH
69	SIRSIKAR MAHESH MADHUKAR
70	DABAKE ABHISHEK KISAN



ROLL NO.	NAME OF THE STUDENT
71	PATIL SAMIKSHA SUNIL
72	HADAL PRACHITTA CHINTAMAN
73	RAWASMITA DASHARATH
74	THAKUR HARSHAD NARESH
75	JADHAV SAREEKA MADANKUMAR
76	PATIL SANIK PRASHANT
77	BHAOANGE TUKARAM HARM
78	SAWANT SHRADDHA ARUN
79	MASMAR NITIN SHIVRAM
80	YADAV SAISHYAM SALAL



# ATTENDANCE REPORT

MSc I 2018-2019

Sr. No.	Student Name	29/08	25/08	01/09	07/09	8/09	14/09	15/09	21/09	22/09
1	BHUSARA SONALI CHANDRAKANT	Sonal	Sonal	Sonal	Sonal	Sonal	Sonal	Sonal		Sonal
2	PATIL SONAL CHANDRAKANT	Sonal	Sonal	Sonal	Sonal	Sonal	Sonal	Sonal		Sonal
3	PATIL VINIT PRALHAD	Patil	Patil	Patil	Patil	Patil	Patil	Patil		Patil
4	BHANDIRGE RAHUL ANIL	Rahul	Rahul	Rahul	Rahul	Rahul	Rahul	Rahul	Rahul	Rahul
5	GHARAT MEHANK RAMESH	Gharat	Gharat	Gharat	Gharat	Gharat	Gharat	Gharat	Gharat	Gharat
6	GHARAT PRAJWAL PANDURANG	Gharat	Gharat	Gharat	Gharat	Gharat	Gharat	Gharat	Gharat	Gharat
7	PATIL NIRBHAY VILAS	Patil	Patil	Patil	Patil	Patil	Patil	Patil	Patil	Patil
8	VARKHANDA POOJA PRAVIN	P	P	P	P	P	P	P	P	P
9	PATIL DHANASHREE PRATAPRAO	Patil	Patil	Patil	Patil	Patil	Patil	Patil	Patil	Patil
10	THAPA SONAM LALBHADUR	Sonam	Sonam	Sonam		Sonam	Sonam	Sonam		Sonam
11	PALAV AMAR ANAND	Palav	Palav	Palav		Palav	Palav	Palav		Palav
12	DHARMADHIKARI DELESH HERAMB	D	D	D		D	D	D		D
13	PAL RANI THAKURPRASAD	Pal	Pal	Pal	Pal	Pal		Pal	Pal	Pal
14	LAHANGE DIVYA SHAILESH	Divya	Divya	Divya	Divya		Divya	Divya		Divya
15	JADHAV PALLAVI ARVIND	P	P	P	P		P	P	P	P
16	ROY TANVI ROBIN	Roy		Roy	Roy	Roy	Roy	Roy	Roy	Roy
17	THAKUR ANKITA BABLU	Thakur	Thakur	Thakur	Thakur	Thakur	Thakur	Thakur	Thakur	Thakur
18	YADAV RANU RAMASARE									
19	SAVE SHREYASI SHRIKANT	Save	Save	Save	Save	Save	Save	Save		Save
20	BARI MOHIT KISHOR	Bari	Bari	Bari	Bari	Bari	Bari	Bari		Bari
21	RAUT DHANASHREE SHANKAR	Raut	Raut	Raut	Raut	Raut	Raut	Raut	Raut	Raut
22	KADU YADNESH VASANT									
23	KADU TARAL DATTATREY	Kadu	Kadu	Kadu	Kadu	Kadu		Kadu	Kadu	Kadu
24	CHAVAN HIRAN PARBHAT	Chavan	Chavan	Chavan	Chavan	Chavan	Chavan	Chavan	Chavan	Chavan
25	SAVE PURVA SANJAY	Purva	Purva	Purva	Purva	Purva	Purva	Purva	Purva	Purva
26	MHATRE VIPRA VISHWAS	Mhatre	Mhatre	Mhatre	Mhatre	Mhatre	Mhatre	Mhatre	Mhatre	Mhatre
27	LADE JAI VILAS	Lade	Lade	Lade	Lade	Lade	Lade	Lade	Lade	Lade
28	PATIL PRITI ANKUSH	Patil	Patil	Patil	Patil	Patil	Patil	Patil	Patil	Patil
29	SACHAN GARIMA ROHIT	S	S	S	S	S	S	S	S	S
30	YADAV NILESH KOMAL	Y	Y	Y	Y	Y	Y	Y	Y	Y
31	TANDEL ULHAS MOHAN	Tandel	Tandel	Tandel		Tandel	Tandel		Tandel	Tandel
32	GAVHANE MONIKA SANDIPAN	Mon	Mon	Mon		Mon	Mon	Mon	Mon	Mon

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33	KADAM APEKSHA MADHUKAR	<del>AMK</del>	<del>AMK</del>	<del>AMK</del>	<del>AMK</del>	<del>AMK</del>	<del>AMK</del>	<del>AMK</del>	<del>AMK</del>	<del>AMK</del>
34	TANDEL KAUSTUBH BALKRISHNA	K.B.T	K.B.T		K.B.T	K.B.T	K.B.T		K.B.T	K.B.T
35	BHOJANE DEEPAK VISHNU	<del>AMK</del>	<del>AMK</del>	<del>AMK</del>	<del>AMK</del>	<del>AMK</del>	<del>AMK</del>	<del>AMK</del>	<del>AMK</del>	<del>AMK</del>
36	MAHTO ANITA NANDKISHOR	<del>AMK</del>	<del>AMK</del>	<del>AMK</del>	<del>AMK</del>	<del>AMK</del>	<del>AMK</del>	<del>AMK</del>	<del>AMK</del>	<del>AMK</del>
37	MISHRA SUHASINI RADHESHYAM	<del>AMK</del>	<del>AMK</del>	<del>AMK</del>	<del>AMK</del>	<del>AMK</del>	<del>AMK</del>	<del>AMK</del>	<del>AMK</del>	<del>AMK</del>
38	MORE MEGHANA LAVKUSH	<del>AMK</del>	M.M	<del>AMK</del>	<del>AMK</del>	<del>AMK</del>	<del>AMK</del>	<del>AMK</del>	<del>AMK</del>	<del>AMK</del>
39	MORE HIMANI SANJAY	<del>AMK</del>	<del>AMK</del>	<del>AMK</del>	<del>AMK</del>	<del>AMK</del>	<del>AMK</del>	<del>AMK</del>	<del>AMK</del>	<del>AMK</del>
40	YADAV SAROJKUMARI TUFANI	S	S	S	S	S	S	S	S	S

QC

	11/03	21/03	31/03	9/03	15/03	16/03	22/03	23/03	29/03
41	MORE UTKARSHA SHIVAJI	Umore	Umore	Umore	Umore	Umore	Umore	Umore	Umore
42	YADAV ANUPKUMAR SHIVSHANKAR	Yadav	Yadav	Yadav	Yadav	Yadav	Yadav	Yadav	Yadav
43	SATVI POOJA PUNDALIK	Fatwi	Fatwi	Fatwi	Fatwi	Fatwi	Fatwi	Fatwi	Fatwi
44	SHARMA POOJAKUMARU LAVKUMAR	Sharma	Sharma	Sharma	Sharma	Sharma	Sharma	Sharma	Sharma
45	WARKE KIRTI BHUSHAN	Kirti	Kirti	Kirti	Kirti	Kirti	Kirti	Kirti	Kirti
46	NAIR SREELAKSHMI RAJASHEKHARAN	S.Nair	S.Nair	S.Nair	S.Nair	S.Nair	S.Nair	S.Nair	S.Nair
47	LOKHANDE RIYA KAMALAKAR	Riya	Riya	Riya	Riya	Riya	Riya	Riya	Riya
48	DODKA NEHA RAJESH	Neha	Neha	Neha	Neha	Neha	Neha	Neha	Neha
49	GAVIT PRAJAKTA MAHADEV	Prajakta	Prajakta	Prajakta	Prajakta	Prajakta	Prajakta	Prajakta	Prajakta
50	PITHOLE DARSHANA YASHAWANT	Darshana	Darshana	Darshana	Darshana	Darshana	Darshana	Darshana	Darshana
51	WANGAD NITIN TRYMBAK	Nitin	Nitin	Nitin	Nitin	Nitin	Nitin	Nitin	Nitin
52	SHAIKH AASMA GULAM DASTAGIR	Shaikh	Shaikh	Shaikh	Shaikh	Shaikh	Shaikh	Shaikh	Shaikh
53	PATIL KRANTIKUMAR KISHOR	Pratil	Pratil	Pratil	Pratil	Pratil	Pratil	Pratil	Pratil
54	GURJAR NARENDRA SOHANLAL	Gurjar	Gurjar	Gurjar	Gurjar	Gurjar	Gurjar	Gurjar	Gurjar
55	PATEL MAYANK SUBODH	M Patel	M Patel	M Patel	M Patel	M Patel	M Patel	M Patel	M Patel
56	GHATAL GANGARAM PANGLYA	G.Ram	G.Ram	G.Ram	G.Ram	G.Ram	G.Ram	G.Ram	G.Ram
57	NIMBOLKAR ASHWINI BHAGWAN	Ashwini	Ashwini	Ashwini	Ashwini	Ashwini	Ashwini	Ashwini	Ashwini
58	KHARDIKAR DIPTI NARESH	Dipti	Dipti	Dipti	Dipti	Dipti	Dipti	Dipti	Dipti
59	MACHHI SARITA ASHWIN	Sarita	Sarita	Sarita	Sarita	Sarita	Sarita	Sarita	Sarita
60	KADU MAYUR SURESH	Mayur	Mayur	Mayur	Mayur	Mayur	Mayur	Mayur	Mayur
61	MACHHI HARSHA VASU	Harsha	Harsha	Harsha	Harsha	Harsha	Harsha	Harsha	Harsha
62	SHANWAR MONIKA BABU	Monika	Monika	Monika	Monika	Monika	Monika	Monika	Monika
63	KAVATE DARSHANA RAMESH	Kavate	Kavate	Kavate	Kavate	Kavate	Kavate	Kavate	Kavate
64	TALHA NILESH RADAKA	Nilesh	Nilesh	Nilesh	Nilesh	Nilesh	Nilesh	Nilesh	Nilesh
65	KOLI SANJAY DEVDATTA	Koli	Koli	Koli	Koli	Koli	Koli	Koli	Koli
66	TUMBADA VISHWANATH RAJU	Vish	Vish	Vish	Vish	Vish	Vish	Vish	Vish
67	PAGI DIPAK JANAYA	D.Pagi	D.Pagi	D.Pagi	D.Pagi	D.Pagi	D.Pagi	D.Pagi	D.Pagi
68	MACHHI KARAN VISHWANATH	Karan	Karan	Karan	Karan	Karan	Karan	Karan	Karan
69	SIRSIKAR MAHESH MADHUKAR	M.Sirsikar	M.Sirsikar	M.Sirsikar	M.Sirsikar	M.Sirsikar	M.Sirsikar	M.Sirsikar	M.Sirsikar
70	DABAKE ABHISHEK KISAN	Abhi	Abhi	Abhi	Abhi	Abhi	Abhi	Abhi	Abhi
71	PATIL SAMIKSHA SUNIL	Patil	Patil	Patil	Patil	Patil	Patil	Patil	Patil
72	HADAL PRACHITTA CHINTAMAN	Prachi	Prachi	Prachi	Prachi	Prachi	Prachi	Prachi	Prachi
73	RAVTE ASMITA DASHARATH	Asmita	Asmita	Asmita	Asmita	Asmita	Asmita	Asmita	Asmita
74	THAKUR HARSHAD NARESH	Thakur	Thakur	Thakur	Thakur	Thakur	Thakur	Thakur	Thakur

QC

75	JADHAV SAREEKA MADANKUMAR	<del>azeeba</del>	<del>azeeba</del>	<del>azeeba</del>	<del>azeeba</del>	<del>azeeba</del>	<del>azeeba</del>	<del>azeeba</del>	<del>azeeba</del>	
76	PATIL SANIK PRASHANT	s.patil	s.patil	s.patil	s.patil	s.patil	s.patil	s.patil	s.patil	s.patil
77	BHADANGE TUKARAM HARJI	Tukare		Tukare	Tukare			Tukare		Tukare
78	SAWANT SHRADDHA ARUN	Shrads	Shrads	Shrads	Shrads	Shrads	Shrads		Shrads	Shrads
79	MASMAR NITIN SHIVRAM	Asmas	Asmas	Asmas	Asmas	Asmas	Asmas		Asmas	Asmas
80	YADAV SAISHYAM SAILAL	Yadav	Yadav	Yadav	Yadav	Yadav	Yadav	Yadav	Yadav	Yadav

QC

## COMPLIANCE REPORT

Certificate Course in Quality Control and Instrumentation was conducted for the students of M.Sc. Students were trained for basic handling of apparatus, chemical calculations, preparation of standard solutions.

A certificate course in Quality Control and Instrumentation provides several benefits to learners. It enhances their skills and knowledge in the field of chemistry.

The course helps to develop a solid understanding of various analytical techniques and methods used in the laboratory and theoretical concepts. Learners gain hands-on experience in using instruments and correct way to handle apparatus.

A certificate in this course adds an advantage to learner's resume. Various sophisticated instruments are widely used in industries, acquiring skills in this area can makes the learner highly relevant and valuable in these sectors, as they can immensely contribute to various areas in the industry.

### **Batch I**

Course Commencement: 29/08/2018

Course Completion: 22/09/2018

Number of students enrolled for the course: 40

Number of students completed the course: 40

Duration of the course: 48 hours

### **Batch II**

Course Commencement: 01/03/2019

Course Completion: 29/03/2019

Number of students enrolled for the course: 40

Number of students completed the course: 40

Duration of the course: 48 hours



**Dr. Shirish Pitale**  
**HOD - Chemistry**



## FEEDBACK FORM

Sonopant Dandekar Arts, V.S. Apte Commerce and M.H.Mehta  
Science College, Palghar

Internal Quality Assurance Cell

Feedback Form on Certificate Course for Postgraduate in  
Chemistry

Name: Bombale Aniket L

Class: MSc-T

16/03/18

Roll No.: \_\_\_\_\_

Sr.No.	Parameters	Strongly Agree	Agree	Neutral	Disagree	Strongly Disagree
1	After completing this course, my knowledge in the topic has increased.	✓				
2	This course increased my interest in chemistry related topics.	✓				
3	The teacher communicated clearly and effectively	✓				
4	The teacher encouraged feedback, class participation and interaction	✓				
5	The course started and ended on schedule	✓				
6	Course objectives were clearly presented	✓				
7	Course material was well prepared	✓				
8	The course developed my understanding of concepts and principles	✓				

ALB  
Signature of student

## **ACTION PHOTOGRAPHS**



**ASST. PROF. SHRUTIKA RAUT EXPLAINING HPLC**

## SAMPLE CERTIFICATES



**SONOPANT DANDEKAR SHIKSHAN MANDALI'S**  
**Sonopant Dandekar Arts, V.S. Apte Commerce &**  
**M.H. Mehta Science College, Palghar**

# CERTIFICATE OF COMPLETION

THIS CERTIFICATE IS PROUDLY PRESENTED TO

**Ms. MHATRE MITRA V.**

for successfully completed

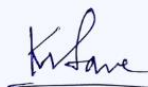
***Certificate course Quality Control and Instrumentation***

  
Head  
Department of Chemistry

  
CFEI - Chairman

DATE : 08-04-2019



  
Principal  
Sonopant Dandekar Arts College  
V.S. Apte Commerce College &  
M.H. Mehta Science College  
PALGHAR (W.R.)  
Dist. Palghar, Pin-401404



**SONOPANT DANDEKAR SHIKSHAN MANDALI'S**  
**Sonopant Dandekar Arts, V.S. Apte Commerce &**  
**M.H. Mehta Science College, Palghar**

# CERTIFICATE OF COMPLETION

THIS CERTIFICATE IS PROUDLY PRESENTED TO

**Mr. BARI MOHIT K.**

for successfully completed

***Certificate course Quality Control and Instrumentation***

*Dandekar*

Head  
Department of Chemistry



CFEI Chairman

DATE : 08-04-2019



*K. Sane*

Principal  
Sonopant Dandekar Arts College  
V.S. Apte Commerce College &  
M.H. Mehta Science College  
PALGHAR (W.R.)  
Dist. Palghar, Pin-401404



**SONOPANT DANDEKAR SHIKSHAN MANDALI'S**  
**Sonopant Dandekar Arts, V.S. Apte Commerce &**  
**M.H. Mehta Science College, Palghar**

# CERTIFICATE OF COMPLETION

THIS CERTIFICATE IS PROUDLY PRESENTED TO

**Mr. YADAV NILESH K.**

for successfully completed


***Certificate course Quality Control and Instrumentation***

  
Head  
Department of Chemistry

  
CFEI - Chairman

DATE : 08-04-2019



  
Principal  
Sonopant Dandekar Arts, V.S. Apte Commerce & M.H. Mehta Science College  
PALGHAR (W.R.)  
Dist. Palghar, Pin-401404