

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

# **DEPARTMENT OF CHEMISTRY**

# Certificate Course Quality Control and Instrumentation

# Under the Aegis of

# **Centre for Excellence and Innovation**

# Academic Year: 2019-2020

Prof. Mahesh Deshmukh CFEI - Chairman Dr. Kiran Save Principal

## Certificate Course in Quality Control and Instrumentation

## Report 2019-2020

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

#### **Duration:** 53 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

**<u>Certification</u>**: 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: 20<sup>th</sup> July, 2019 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 the month of August, 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. Suhas Janwadkar Head, Department of Chemistry

Allowed

#### 1. Theoretical Part

Sr. No.	Content	Hours required
1	Good Laboratory Practices	1
2	Safety Precautions	1
3	Good Documentation Practices	1
4	Chemical Calculations	2
5	Introduction to pharmacopeia	1
	Total	6

#### 2. Practical Part

#### A. Instrumentation

Sr. No.	Content	Hours required
1	Gas Chromatography	21
2	High Performance Chromatography	18
3	UV-Visible Spectroscopy	3
		42
	Total	

#### B. <u>Wet Chemistry</u>

Sr. No.	Content	Hours required
1	Solubility	1
2	Preparation of Volumetric Solutions	2
4	Specific gravity	2
		5
	Total	



Sonopant Dandekar Shikshan Mandali's Sonopant Dandekar Arts, V. S. Apte Commerce & M. H. Mehta Science College, Palghar, Dist: Palghar <u>ACADEMIC YEAR 2019-20</u>

Date: 01/08/2019

# NOTICE

All the M.Sc. students are hereby informed that their Certificate Course in Quality Control and Instrumentation will begin from 16<sup>th</sup> August, 2019. Batch details are shared along with this notice.

Dr. Suhas Janwadkar

Head ,Department of Chemistry

## STUDENT ENROLMENT LIST

OLL NO.	NAME OF THE STUDENT					
1	PATIL KIMAYA SOPAN					
2	BANDEKAR POOJA SUNILDUTT					
3	RAUT KRUTIK SAINATH					
4	DHIKAR NAMRATA RATAN					
5	MISHRA PRIYA RAJESH					
6	MISTRY JYOTI KISTURCHANND					
7	WANKHEDED VISHAKHA ASHOK					
8	MISTRY HIRAL KIRAN					
9	SHEJWAL SHRADDHA SANJAY					
10	SINGH SONU KEDARNATH					
11	CHAVHAN LAKHAN SANTOSH					
12	RAUT ABHIDNYA ASHOK					
13	INGALE KAJAL PRAVIN					
14	MOKASHI JYOTIKA SURESH					
15	PAWADE SAKSHI JAGDISH					
16	GHARAT JANMESH SADASHIV					
17	RAUT AKANKSHA DINESH					
18	DARJI HIRALBEN JASVANTBHAI					
19	KADU VIBHASHA JAYWANT					
20	YADAV SOHAN DEVENDRA					
21	WAYKOLE PRIYANKA UMESH					
22	GHARAT DISHA SHRIKANT					
23	BARAD RASULA KASHINATH					
24	KATHYA PRITI SURESH					
25	PATIL KIMAYA RAMCHANDRA					
26	SANKHE TANVI VINOD					
27	TAMORE MANASI VINAYAK					
28	BHOYE KANCHAN SURESH					
29	PATIL APEKSHA DATTATREY					
30	PATIL SONALI VASANT					



ROLL NO.	NAME OF THE STUDENT	
31	YADAV PRIYANKA JAYKISHAN	
32	PORLEKAR ROHIT KERABA	

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#### ATTENDANCE REPORT

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#### SUMMARY 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.

Course Commencement: 16/08/2019 Course Completion: 14/10/2019 Number of students enrolled for the course: 32 Number of students completed the course: 32 Duration of the course: 53 hours

Dr. Suhas Janwakar 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: Retel Kimaya Sopan 30.08.19 Class: MSC

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.	te ( his				
3	The teacher communicated clearly and effectively					
4	The teacher encouraged feedback, class participation and interaction					
5	The course started and ended on schedule	Bly C:				
6	Course objectives were clearly presented					
7	Course material was well prepared	17:-				
8	The course developed my understanding of concepts and principles	<u>, , ; ; ; ; ; ; ; ; ; ; ; ; ; ; ; ; ; ;</u>				

Kimpus Signature of student

#### **ACTION PHOTOGRAPHS**



ASST.PROF. KAUSHIK MESTRY EXPLAINING TITRATION TECHNIQUES

#### 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. SANKHE TANVI V.

for successfully completed

Certificate course Quality Control and Instrumentation

Danne

Head Department of Chemistry

Mohmukh CFEI - Chairman DATE: 12/02/2020

PRINCIPAL Financial Sosopant Dandekar Arts Gold W.S. Apte Commerce College M.H. Mehas Science College PALGHAR (W.R.) Dist. Palghar, Pin-481404

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



THIS CERTIFICATE IS PROUDLY PRESENTED TO

# Ms. PATIL KIMYA SOPAN

for successfully completed

Certificate course Quality Control and Instrumentation

Head

Department of Chemistry



PRINCIPA TIM Ciple Solopant Dandexir Arts Ciple V.S. Apte Commerce College & M.H. Mehta Science College PALGHAR (W.R.) Dist. Palghar, Pin-461404

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



THIS CERTIFICATE IS PROUDLY PRESENTED TO

# Mr. SINGH SONU K.

for successfully completed

Certificate course Quality Control and Instrumentation

Head

Department of Chemistry



PRINCIPATIONS UNDER Schopant Dandekar Arts Guide V.S. Apte Commerce College A.H. Mehas Science College PALGHAR (W.R.) Dist. Palghar, Pin-401404