



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

DEPARTMENT OF CHEMISTRY

Certificate Course Analytical Techniques

**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 Analytical Techniques

Report 2019-2020

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Certificate course in Analytical Techniques

Duration: 32 hours

Aim: To study basic analytical techniques required in industry. (Preliminary)

Features of the course:

- Basic concepts of analytical techniques.
- Customized for the industry.
- Delivered by faculty of department of chemistry as well as experts from the industry.

Objectives:

- To acquire knowledge about different analytical techniques.
- To acquire the skills required in industries.
- To understand basic laboratory techniques.

Eligibility:

Any science students having chemistry as a subject.

Mode of Examination:

Theory: Assignment will be provided.

Practical: Practical exam will be based on experiment performed during the course.

Certification: Certificate will be provided on the basis of practical examination.

Learning Outcome:

Students will acquire detail theoretical knowledge as well as practical experience about various laboratory techniques.

Date: 15th October, 2019

To,

The Principal,

Sonopant Dandekar Arts, V.S. Apte Commerce and

M.H. Mehta Science College,

Palghar

Subject: Approval for Certificate Course in Analytical Techniques (F.Y.B.Sc.)

Respected Sir,

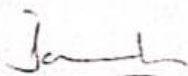
For developing instrumental skills in students, we have designed certificate course for the class of F.Y.B.Sc. The course is aimed at enhancing skills and knowledge of students in basic instrumental techniques. This course will benefit the students by providing them with an opportunity to develop their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

The Certificate Course will be offered in the month of November, 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

Permitted
K. D. Dandekar

SYLLABUS

	Content	Theoretical	Practical	Duration
1	General chemical calculation & representation of Graphs- I.	-Concept of Normality, Molarity, Formality, -Conversion of unit	Problem-solving based on the theoretical concepts.	4 Hours
2	Study of Laboratory techniques	-Importance of handling glassware apparatus. -Calibration of apparatus. -Accurate weighing of compounds.	Techniques to handle pipette, burette, standard volumetric flask, use of rubber bulb. Cleaning and maintenance of apparatus.	4 Hours
3	Practical learning on laboratory safety	-Good laboratory practices Laboratory upkeep	Practical learning on laboratory safety by demonstration and handling of instruments and apparatus.	4 Hours
4	Training on handling and safety of chemicals	-Laboratory health and safety -	Demonstration and handling of chemicals.	4 Hours
6	Preparation of Standard solution such as Primary standard and secondary standard		1. For Acid -Base Titration – Succinic acid, benzoic acid by using NaOH. For Complexometric Titration – ZnSO ₄ by using EDTA. For Redox Titration- Oxalic acid/Na-oxalate using KMnO ₄ . 2. Standardization of commercial sample of HCl by using Borax. 3. Standardization of KMnO ₄ by Na-oxalate/Oxalic acid.	10 Hours
7	Qualitative analysis		1.Estimation of purity of given EDTA sample.	6 Hours

			<p>2. Estimation of ZnO in Zinc-oxide cream by complexometrically.</p> <p>3. Assay of H₃PO₄ by acid-base titration.</p> <p>Assay of salicylic acid.</p>	
	Total Duration:			32 hours



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

Date : 5/10/2019

NOTICE

All the **F.Y.B.Sc.** students are hereby informed that their **Certificate Course in Analytical Techniques** will begin from 4th November, 2019. Batch details are shared along with this notice.

Dr. Suhas Janwadkar

Head ,Department of Chemistry

ENROLLMENT LIST

STUDENT ENROLMENT LIST

ROLLNO	NAME OF THE STUDENT
	FYBSC , 2019-20
1	PATIL SWATI JANARDAN
2	BHANDARI VINALKUMAR SANJAYBHAI
3	BHOSLE ARATI DEEPAK
4	CHURI KSHITIJA JAGDISH
5	SINGH ATUL RAJLSH
6	VISHWAKARMA OMSHIVAM SATYADEV
7	SINGH ADHISHEKH RAJENDRA
8	SINGH CHANDA KUMARI MANOJ
9	MANDEKAR MANSI SANJAY
10	SAROJ KHUSHBOO HAWALDAR
11	CHAVAN GAURAV RAMESH
12	BHALERAO SALONI SUBHASH
13	PATRA BASU BHAGYADHAR
14	YAMGAR RAHUL RAJARAM
15	SINGH VISHVAJEET OMPRAKASH
16	TRIPATHI SHIBANI JITENDRA
17	PATEL KUSHESH LALCHAND
18	GORKHANA KANCHAN RAJESH
19	PAWADE SALONI KUSMAKAR
20	YADAV ANJALI RAJESH
21	DAWANE VEDIKA JITENDRA
22	SRIVASTAVA RIYA MANOJ
23	BOHERE CHAITANYA RAJARAM
24	MISHRA DIVYA SANTOSH
25	DUBEY PRIYA PRADEEP
26	TAYADE RAHUL LAHU
27	JADHAV SAHIL SURESH
28	AHIRRAO DEWANG RAJENDRA
29	GAWAD DARVIKA NARESH
30	SHAIKH FIZA FAIROJ
31	JHA DEEPESH OMPRAKASH
32	SHREYA TUSHAR RAUT DWITIKRISHNA
33	PANIGRAHI SAMIR DWITIKRISHNA
34	SANKHE SANKARSHAN RAKESH
35	VALVI SOHAM RAKESH
36	MORE AMAN EKNA
37	KENI NACHIKET MILIND
38	FRANKLIN JOHNY
39	KAMBLE RADHIKA DAYANA
40	SANKHE PRANAY PANDHARINATH
41	SARAVALIWALA PRANAY PANDHARINATH



42	GUPTA AMISHA RAMPRAVESH
43	RAJPUT CHANDA MOTISINGH
44	BORUDE BHAKTI SANJAY
45	MADHAVI RUPESH
46	GOVARI UMESH LAXMAN
47	RAUT BHAGYASHRI PIRAMOD
48	VISHWAKARMA NIRAJ ANUPKUMAR
49	TAMBADI ANKUSH VISHNU
50	GUPTA NEHA BALKISHAN
51	SANKHE VIRAJ VIJAY
52	SINGH NEHA KUMARI PANKAJ KUMAR
53	SANKHE MANAS MANOHAR
54	SINGH SHREYA ASHOKKUMAR
55	SINGH SHREYA ASHOKK
56	SREE LAKSHMI BABY
57	JAGTAP HARSHALI SANTOSH
58	PATIL ISHA VIL
59	MULLA SALMAN JAKIRHUSEN
60	MARDE ISHA KIRAN
61	THAKARE PRANJAL PARESH
62	MANGE DEVIKA MALLINATH
63	SHEJWAL RUSHIKESH SANJAY
64	DAVANE NACHIKET MANOJ
65	THAKUR JEET PRASHANT
66	GHARAT SHARVARI MANOJ
67	THAKUR PRATHAMESH BUDDHANSINGH
68	YADAV VIVEK SABHARAJ
69	ACHARYA YADNESH HARIHAR
70	TAMORE RIYA DATTATREY
71	GHARAT POOJA BALWANT
72	PATIL SEJAL JAYESH
73	PATIL VAISHNAVI VIVEK
74	PATIL KSHITIJA PRAKASH
75	RAUT SHREY MAHESH
76	BORKAR RUTUJA MANGESH
77	SOGALE SAMRUDHI ANIL
78	SHAIKH TABRAIZ ABDULRAZZAQUE
79	MOHITE MONIKA SANDEEP
80	PAINAIK SWAPNIL SATYAVAN
81	CHAUHAN KANCHAN SATYENDRA
82	MEHER SAKSHI DUSHYANT
83	PANDEY HIMANSHU SANJAY
84	MORE PURVA SUNIL
85	MORE SAMIKSHA SHRIKANT
86	MHATRE HARDIK ANIL
87	CHAVHAN RAMDAS SHANKAR
88	NARGOLKAR SAISH BHARAT



89	SINGH PARVATI ANILKUMAR
90	INGALE VAISHNAVI RAJENDRA
91	TARE RUTIK RAJENDRA
92	PANERE MANASVI PRABHAKAR
93	RATHOD HONEY MITHALAL
94	CHAUDHARY RAVISHANKAR KAILASHI
95	SASANE KANCHAN PARMESHWARI
96	HAMBIRE ASHITI RAMESH
97	PATIL MANSI CHANDRAKANT
98	BARI PACHANYA RAJENDRA
99	BARI KRUTIK MAHESH
100	NAYAK HRITHIK AYODHYAPRASAD
101	RAUT BHAVIK RANJAN
102	RAUT GAURAV KRISHNAKUMAR
103	VAZE KANAK NITIN
104	SINGH RANJEET RAJKISHOR
105	SINGH SATYAM UPENDRA
106	GAIKWAD ROHIT RAMAKANT
107	PATIL SAYALI RAJENDRA
108	GANGURDE DHANASHREE YASHWANT
109	YADAV SHRADDHA AMARJEET
110	SHEJOLE RUTIK VILAS
111	RAUT BHUMIKA SADANAND
112	PATIL KIRTI JITENDRA
113	BARI PRATIK DINESH
114	TAWAR DIPTI MOHANSINGH
115	GAVANDHA DEEPALI SITARAM
116	JADHAV MANALI RAJENDRA
117	YADAV ANNU UDAYBHAN
118	SINGH PRIYA JAYPRAKASH
119	VARMA ROSHNI HARIOM
120	SINGH VISHAL ASHOK
121	YADAV ABHISHEK SURENDRA
122	DASARI SANDHYA RAMCHANDRA
123	PATRO ABINASH SIMANCHAL
124	RAUT SHRINIK GAJANAN
125	GAVHALE NIKHIL DILIP
126	RAUT JAYESH SHARAD
127	MANE SHUBHAM MAHENDRA
128	GOVARI ASHWINI ANANTA
129	GHATAL RAVINA RAMAL
130	BARI MEHEK HIRAJI
131	DIGHE AKANKSHA GOPAL
132	THAKUR TANNU SUBODH
133	SONI SHUBHANSHU SHYAMJI
134	RANE RIHATAI GIRADHAREE
135	PATIL PAYAL ANIL



136	PATIL ESHWAR LAKHICHAND
137	GHORKHANA CHETAN JAYRAM
138	MAHALE AJAY BHIMRAO
139	GAVALI MAYURI LAXMAN
140	EPILLI GANESH BULLU
141	BARI KARAN RAMAKANT
142	SHAIKH AALIYA ABDUL LATIF
143	DESALE PRAYUKTI BHAGWAN
144	KANOJIYA NISHA BRIJLAL
145	KHAN MARIYAM NASEEM
146	SALUNKHE TUSHAR NANDU
147	GHRAT PRATHAMESH PANDURANG
148	VARMA DIPESH VINOD
149	KUSHWAHA SUMIT GOVIND
150	SHAIKH NAMIRA AMIN



ATTENDANCE REPORT

F.Y.Bsc 19-20		Date											
ROLL NO	NAME OF THE STUDENT	04/11/19	05/11/19	06/11/19	07/11/19	08/11/19	09/11/19	10/11/19	13/11/19	26/11/19	27/11/19	28/11/19	30/11/19
1	PATIL SWATI JANARDAN	Swati	Swati	Swati	Swati	Swati	Swati	Swati	Swati	Swati	Swati	Swati	Swati
2	BHANDARI VINALKUMAR SANJAYBHAI	Bhandari	Bhandari	Bhandari	Bhandari	Bhandari	Bhandari	Bhandari	Bhandari	Bhandari	Bhandari	Bhandari	Bhandari
3	BHOSLE ARATI DEEPAK	Arati	Arati	Arati	Arati	Arati	Arati	Arati	Arati	Arati	Arati	Arati	Arati
4	CHURI KSHITIJ JA GDISH	Kshiti	Kshiti	Kshiti	Kshiti	Kshiti	Kshiti	Kshiti	Kshiti	Kshiti	Kshiti	Kshiti	Kshiti
5	SINGH ATUL RAJESH	Asingh	Asingh	Asingh	Asingh	Asingh	Asingh	Asingh	Asingh	Asingh	Asingh	Asingh	Asingh
6	VISHWAKARMA OMSHIVAM SATYADEV	Vishw	Vishw	Vishw	Vishw	Vishw	Vishw	Vishw	Vishw	Vishw	Vishw	Vishw	Vishw
7	SINGH ABHISHEKH RAJENDRA	Singh	Singh	Singh	Singh	Singh	Singh	Singh	Singh	Singh	Singh	Singh	Singh
8	SINGH CHANDA KUMARI MANOJ	Manoj	Manoj	Manoj	Manoj	Manoj	Manoj	Manoj	Manoj	Manoj	Manoj	Manoj	Manoj
9	MANDEKAR MANSI SANJAY	M.M.S	M.M.S	M.M.S	M.M.S	M.M.S	M.M.S	M.M.S	M.M.S	M.M.S	M.M.S	M.M.S	M.M.S
10	SAROJ KHUSHBOO HAWALDAR	Khushbo	Khushbo	Khushbo	Khushbo	Khushbo	Khushbo	Khushbo	Khushbo	Khushbo	Khushbo	Khushbo	Khushbo
11	CHAVAN GAURAV RAMESH	Gaurav	Gaurav	Gaurav	Gaurav	Gaurav	Gaurav	Gaurav	Gaurav	Gaurav	Gaurav	Gaurav	Gaurav
12	BHALERAO SALONI SUBHASH	Saloni	Saloni	Saloni	Saloni	Saloni	Saloni	Saloni	Saloni	Saloni	Saloni	Saloni	Saloni
13	PATRA BASU BHAGYADHAR	Bhagya	Bhagya	Bhagya	Bhagya	Bhagya	Bhagya	Bhagya	Bhagya	Bhagya	Bhagya	Bhagya	Bhagya
14	YAMGAR RAHUL RAJARAM	R.R.V	R.R.V	R.R.V	R.R.V	R.R.V	R.R.V	R.R.V	R.R.V	R.R.V	R.R.V	R.R.V	R.R.V
15	SINGH VISHVAJEET OMPRAKASH	Singh	Singh	Singh	Singh	Singh	Singh	Singh	Singh	Singh	Singh	Singh	Singh
16	TRIPATHI SHIBANI JITENDRA	Shiba	Shiba	Shiba	Shiba	Shiba	Shiba	Shiba	Shiba	Shiba	Shiba	Shiba	Shiba
17	PATEL KUSHESH LALCHAND	Lealit	Lealit	Lealit	Lealit	Lealit	Lealit	Lealit	Lealit	Lealit	Lealit	Lealit	Lealit
18	GORKHANA KANCHAN RAJESH	R.K.G	R.K.G	R.K.G	R.K.G	R.K.G	R.K.G	R.K.G	R.K.G	R.K.G	R.K.G	R.K.G	R.K.G
19	PAWADE SALONI KUSMAKAR	Saloni	Saloni	Saloni	Saloni	Saloni	Saloni	Saloni	Saloni	Saloni	Saloni	Saloni	Saloni
20	YADAV ANJALI RAJESH	R.A.V	R.A.V	R.A.V	R.A.V	R.A.V	R.A.V	R.A.V	R.A.V	R.A.V	R.A.V	R.A.V	R.A.V
21	DAWANE VEDIKA JITENDRA	Vedika	Vedika	Vedika	Vedika	Vedika	Vedika	Vedika	Vedika	Vedika	Vedika	Vedika	Vedika
22	SRIVASTAVA RIYA MANOJ	R.M.S	R.M.S	R.M.S	R.M.S	R.M.S	R.M.S	R.M.S	R.M.S	R.M.S	R.M.S	R.M.S	R.M.S
23	BOHERE CHAITANYA RAJARAM	Chaita	Chaita	Chaita	Chaita	Chaita	Chaita	Chaita	Chaita	Chaita	Chaita	Chaita	Chaita
24	MISHRA DIVYA SANTOSH	Divya	Divya	Divya	Divya	Divya	Divya	Divya	Divya	Divya	Divya	Divya	Divya
25	DUBEY PRIYA PRADEEP	Priya	Priya	Priya	Priya	Priya	Priya	Priya	Priya	Priya	Priya	Priya	Priya
26	TAYADE RAHUL LAHU	R.T	R.T	R.T	R.T	R.T	R.T	R.T	R.T	R.T	R.T	R.T	R.T
27	JADHAV SAHIL SURESH	Sahil	Sahil	Sahil	Sahil	Sahil	Sahil	Sahil	Sahil	Sahil	Sahil	Sahil	Sahil
28	AHIRRAO DEWANG RAJENDRA	Rajendra	Rajendra	Rajendra	Rajendra	Rajendra	Rajendra	Rajendra	Rajendra	Rajendra	Rajendra	Rajendra	Rajendra
29	GAWAD DARVIKA NARESH	Darvik	Darvik	Darvik	Darvik	Darvik	Darvik	Darvik	Darvik	Darvik	Darvik	Darvik	Darvik
30	SHAIKH FIZA FAIROJ	Fairoj	Fairoj	Fairoj	Fairoj	Fairoj	Fairoj	Fairoj	Fairoj	Fairoj	Fairoj	Fairoj	Fairoj

Analytical

31	JHA DEEPESH OMPRAKASH												
32	RAUT SHREYA TUSHAR	Straut	Straut	Straut	Straut	Straut	Straut	Straut	Straut	Straut	Straut	Straut	Straut
33	PANIGRAHI SAMIR DWITIKRISHNA	Sambh	Sambh	Sambh	Sambh	Sambh	Sambh	Sambh	Sambh	Sambh	Sambh	Sambh	Sambh
34	SANKHE SANKARSHAN RAJENDRA	sankhe	sankhe	sankhe	sankhe	sankhe	sankhe	sankhe	sankhe	sankhe	sankhe	sankhe	sankhe
35	VALVI SOHAM RAKESH	valvi	valvi	valvi	valvi	valvi	valvi	valvi	valvi	valvi	valvi	valvi	valvi
36	MORE AMAN EKNATH	more	more	more	more	more	more	more	more	more	more	more	more
37	KENI NACHIKET MILIND	keni	keni	keni	keni	keni	keni	keni	keni	keni	keni	keni	keni
38	FRANKLIN JOHNY	Johny	Johny	Johny	Johny	Johny	Johny	Johny	Johny	Johny	Johny	Johny	Johny
39	KAMBLE RADHIKA DAYANAND	Radhi	Radhi	Radhi	Radhi	Radhi	Radhi	Radhi	Radhi	Radhi	Radhi	Radhi	Radhi
40	SANKHE NILAY UMESH	Nilay	Nilay	Nilay	Nilay	Nilay	Nilay	Nilay	Nilay	Nilay	Nilay	Nilay	Nilay
41	SARAVALIWALA PRANAY PANDHARINATH												
42	GUPTA AMISHA RAMPRAVESH	Rampr	Rampr	Rampr	Rampr	Rampr	Rampr	Rampr	Rampr	Rampr	Rampr	Rampr	Rampr
43	RAJPUT CHANDA MOTISINGH	Rajput	Rajput	Rajput	Rajput	Rajput	Rajput	Rajput	Rajput	Rajput	Rajput	Rajput	Rajput
44	BORUDE BHAKTI SANJAY		Vilas	Vilas	Vilas	Vilas	Vilas	Vilas	Vilas	Vilas	Vilas	Vilas	Vilas
45	MADHAVI RUPESH VILAS		Vilas	Vilas	Vilas	Vilas	Vilas	Vilas	Vilas	Vilas	Vilas	Vilas	Vilas
46	GOVARI UMESH LAXMAN	Umesh	Umesh	Umesh	Umesh	Umesh	Umesh	Umesh	Umesh	Umesh	Umesh	Umesh	Umesh
47	RAUT BHAGYASHRI PRAMOD	Raut	Raut	Raut	Raut	Raut	Raut	Raut	Raut	Raut	Raut	Raut	Raut
48	VISHWAKARMA NIRAJ ANUPKUMAR												
49	TAMBADI ANKUSH VISHNU												
50	GUPTA NEHA BALKISHAN	Neha	Neha	Neha	Neha	Neha	Neha	Neha	Neha	Neha	Neha	Neha	Neha
51	SANKHE VIRAJ VIJAY												
52	SINGH NEHA KUMARI PANKAJ KUMAR	Neha	Neha	Neha	Neha	Neha	Neha	Neha	Neha	Neha	Neha	Neha	Neha
53	SANKHE MANAS MANOHAR	Manas	Manas	Manas	Manas	Manas	Manas	Manas	Manas	Manas	Manas	Manas	Manas
54	SINGH SHREYA ASHOKKUMAR	Singh	Singh	Singh	Singh	Singh	Singh	Singh	Singh	Singh	Singh	Singh	Singh
55	BACHHAV SAHIL SANJAY		Sree	Sree	Sree	Sree	Sree	Sree	Sree	Sree	Sree	Sree	Sree
56	RAJAN SREE LAKSHMI BABY		Sree	Sree	Sree	Sree	Sree	Sree	Sree	Sree	Sree	Sree	Sree
57	JAGTAP HARSHALI SANTOSH	Santosh	Santosh	Santosh	Santosh	Santosh	Santosh	Santosh	Santosh	Santosh	Santosh	Santosh	Santosh
58	PATIL ISHA VILAS	Isha	Isha	Isha	Isha	Isha	Isha	Isha	Isha	Isha	Isha	Isha	Isha
59	MULLA SALMAN JAKIRHUSEN												
60	MARDE ISHA KIRAN	Isha	Isha	Isha	Isha	Isha	Isha	Isha	Isha	Isha	Isha	Isha	Isha

Analytical

61	THAKARE PRANJAL PARESH	Thakare	Pranjali	Pareesh	Pranjali	Pareesh	Pranjali	Pareesh	Pranjali	Pareesh	Pranjali	Pareesh	Pranjali	Pareesh
62	MANGE DEVIKA MALLINATH	Mange		Mange	Mange		Mange	Mange		Mange	Mange		Mange	
63	SHEJWAL RUSHIKESH SANJAY													
64	DAVANE NACHIKET MANOJ	Manoj	Nachiket	Manoj		Manoj	Nachiket	Manoj		Manoj	Nachiket	Manoj	Nachiket	
65	THAKUR JEET PRASHANT													
66	GHARAT SHARVARI MANOJ													
67	THAKUR PRATHAMESH BUDDHANSINGH													
68	YADAV VIVEK SABHARAJ	Sabharaj		Sabharaj		Sabharaj		Sabharaj		Sabharaj		Sabharaj	Sabharaj	
69	ACHARYA YADNESH HARIHAR													
70	TAMORE RIYA DATTATREY	Rutik	Rutik	Rutik	Rutik	Rutik	Rutik	Rutik	Rutik	Rutik	Rutik	Rutik	Rutik	
71	GHARAT POOJA BALWANT													
72	PATIL SEJAL JAYESH	Patil	Sejal	Patil		Patil	Sejal	Patil		Patil	Sejal	Patil	Sejal	
73	PATIL VAISHNAVI VIVEK	Patil	Vaishnavi	Patil		Patil	Vaishnavi	Patil		Patil	Vaishnavi	Patil	Vaishnavi	
74	PATIL KSHITIJ PRAKASH	Patil	Kshitij	Patil		Patil	Kshitij	Patil		Patil	Kshitij	Patil	Kshitij	
75	RAUT SHREY MAHESH	SmRaut	Shrey	SmRaut		SmRaut	Shrey	SmRaut		SmRaut	Shrey	SmRaut	Shrey	
76	BORKAR RUTUJA MANGESH													
77	SOGALE SAMRUDHI ANIL	Sogale		Sogale	Sogale		Sogale	Sogale		Sogale	Sogale		Sogale	
78	SHAIKH TABRAIZ ABDULRAZZAQUE	Sandip		Sandip		Sandip		Sandip		Sandip		Sandip	Sandip	
79	MOHITE MONIKA SANDEEP	Sandip	Monika	Sandip		Sandip	Monika	Sandip		Sandip	Monika	Sandip	Monika	
80	PAINAIK SWAPNIL SATYAVAN													
81	CHAUHAN KANCHAN SATYENDRA													
82	MEHER SAKSHI DUSHYANT	Meher	Sakshi	Meher		Meher	Sakshi	Meher		Meher	Sakshi	Meher	Sakshi	
83	PANDEY HIMANSHU SANJAY													
84	MORE PURVA SUNIL	More	Purva	More		More	Purva	More		More	Purva	More	Purva	
85	MORE SAMIKSHA SHRIKANT													
86	MHATRE HARDIK ANIL	(H)		(H)		(H)		(H)		(H)		(H)	(H)	
87	CHAVHAN RAMDAS SHANKAR													
88	NARGOLKAR SAISH BHARAT													
89	SINGH PARVATI ANILKUMAR													
90	INGALE VAISHNAVI RAJENDRA	Vaishu	Vaishnavi	Vaishu		Vaishu	Vaishnavi	Vaishu		Vaishu	Vaishnavi	Vaishu	Vaishnavi	

Analytical

91	TARE RUTIK RAJENDRA	Rutik	Rutik		Rutik		Rutik	Rutik	Rutik		Rutik	Rutik
92	PANERE MANASVI PRABHAKAR											
93	RATHOD HONEY MITHALAL											
94	CHAUDHARY RAVISHANKAR KAILASH											
95	SASANE KANCHAN PARMESHWAR	Ashti	Ashti		Ashti		Ashti	Ashti	Ashti		Ashti	Ashti
96	HAMBIRE ASHITI RAMESH	Ashti	Ashti	Ashti		Ashti	Ashti	Ashti	Ashti		Ashti	Ashti
97	PATIL MANSI CHANDRAKANT											
98	BARI PACHJANYA RAJENDRA											
99	BARI KRUTIK MAHESH											
100	NAYAK HRITHIK AYODHYAPRASAD											
101	RAUT BHAVIK RANJAN											
102	RAUT GAURAV KRISHNAKUMAR											
103	VAZE KANAK NITIN	-	kanak		kanak	kanak	kanak	kanak	kanak		kanak	kanak
104	SINGH RANJEET RAJKISHOR											
105	SINGH SATYAM UPENDRA											
106	GAIKWAD ROHIT RAMAKANT	Rohit	Rohit	Rohit	Rohit		Rohit	Rohit		Rohit	Rohit	Rohit
107	PATIL SAYALI RAJENDRA											
108	GANGURDE DHANASHREE YASHWANT											
109	YADAV SHRADDHA AMARJEET											
110	SHEJOLE RUTIK VILAS											
111	RAUT BHUMIKA SADANAND	bhumika	bhumika	bhumika	bhumika	bhumika	bhumika	bhumika	bhumika	bhumika	bhumika	bhumika
112	PATIL KIRTI JITENDRA	kirti		kirti		kirti		kirti		kirti		kirti
113	BARI PRATIK DINESH											
114	TAWAR DIPTI MOHANSINGH											
115	GAVANDHA DEEPALI SITARAM											
116	JADHAV MANALI RAJENDRA											
117	YADAV ANNU UDAYBHAN	Ann	Ann	Ann	Ann		Ann	Ann		Ann		Ann
118	SINGH PRIYA JAYPRAKASH	Priya	Priya	Priya	Priya		Priya	Priya	Priya		Priya	Priya
119	VARMA ROSHNI HARIOM											
120	SINGH VISHAL ASHOK											

Analytical

121	YADAV ABHISHEK SURENDRA	Yadav	Yadav	Yadav	Yadav	Yadav	Yadav	Yadav	Yadav	Yadav	Yadav	Yadav
122	DASARI SANDHYA RAMCHANDRA	Dasari	Dasari	Dasari	Dasari	Dasari	Dasari	Dasari	Dasari	Dasari	Dasari	Dasari
123	PATRO ABINASH SIMANCHAL											
124	RAUT SHRINIK GAJANAN	Raut		Raut	Raut		Raut	Raut	Raut	Raut		Raut
125	GAVHALE NIKHIL DILIP	Gavde		Gavde	Gavde		Gavde	Gavde	Gavde	Gavde		Gavde
126	RAUT JAYESH SHARAD	Raut	Raut	Raut	Raut	Raut	Raut	Raut	Raut	Raut	Raut	Raut
127	MANE SHUBHAM MAHENDRA	Mane	Mane	Mane	Mane	Mane	Mane	Mane	Mane	Mane	Mane	Mane
128	GOVARI ASHWINI ANANTA	Govari	Govari	Govari	Govari	Govari	Govari	Govari	Govari	Govari	Govari	Govari
129	GHATAL RAVINA RAMAL											
130	BARI MEHEK HIRAJI	Mehek	Mehek	Mehek	Mehek	Mehek	Mehek	Mehek	Mehek	Mehek	Mehek	Mehek
131	DIGHE AKANKSHA GOPAL											
132	THAKUR TANNU SUBODH	Thakur	Thakur	Thakur	Thakur	Thakur	Thakur	Thakur	Thakur	Thakur	Thakur	Thakur
133	SONI SHUBHANSHU SHYAMJI	Soni	Soni	Soni	Soni	Soni	Soni	Soni	Soni	Soni	Soni	Soni
134	RANE RIHATAI GIRADHAREE											
135	PATIL PAYAL ANIL	Patil	Patil	Patil	Patil	Patil	Patil	Patil	Patil	Patil	Patil	Patil
136	PATIL ESHWAR LAKHICHAND											
137	GHORKHANA CHETAN JAYRAM											
138	MAHALE AJAY BHIMRAO	Ajay	Ajay	Ajay	Ajay	Ajay	Ajay	Ajay	Ajay	Ajay	Ajay	Ajay
139	GAVALI MAYURI LAXMAN											
140	EPELLI GANESH BULLU	Epelli	Epelli	Epelli	Epelli	Epelli	Epelli	Epelli	Epelli	Epelli	Epelli	Epelli
141	BARI KARAN RAMAKANT											
142	SHAIKH AALIYA ABDUL LATIF	Ali	Ali	Ali	Ali	Ali	Ali	Ali	Ali	Ali	Ali	Ali
143	DESALE PRAYUKTI BHAGWAN											
144	KANOJIYA NISHA BRULAL	Nisha	Nisha	Nisha	Nisha	Nisha	Nisha	Nisha	Nisha	Nisha	Nisha	Nisha
145	KHAN MARIYAM NASEEM	Khan	Khan	Khan	Khan	Khan	Khan	Khan	Khan	Khan	Khan	Khan
146	SALUNKHE TUSHAR NANDU											
147	GHARAT PRATHAMESH PANDURANG	Gharat	Gharat	Gharat	Gharat	Gharat	Gharat	Gharat	Gharat	Gharat	Gharat	Gharat
148	VARMA DIPESH VINOD	Varma	Varma	Varma	Varma	Varma	Varma	Varma	Varma	Varma	Varma	Varma
149	KUSHWAHA SUMIT GOVIND	Kushwa	Kushwa	Kushwa	Kushwa	Kushwa	Kushwa	Kushwa	Kushwa	Kushwa	Kushwa	Kushwa
150	SHAIKH NAMIRA AMIN	Shaikh	Shaikh	Shaikh	Shaikh	Shaikh	Shaikh	Shaikh	Shaikh	Shaikh	Shaikh	Shaikh

Analytical

121	YADAV ABHISHEK SURENDRA	Yadav	Yadav	Yadav	Yadav	Yadav	Yadav	Yadav	Yadav	Yadav	Yadav	Yadav	Yadav
122	DASARI SANDHYA RAMCHANDRA	Dasari	Dasari	Dasari	Dasari	Dasari	Dasari	Dasari	Dasari	Dasari	Dasari	Dasari	Dasari
123	PATRO ABINASH SIMANCHAL												
124	RAUT SHRINIK GAJANAN	Raut		Raut	Raut		Raut	Raut	Raut	Raut	Raut		Raut
125	GAVHALE NIKHIL DILIP	Gavde		Gavde	Gavde		Gavde	Gavde	Gavde	Gavde	Gavde		Gavde
126	RAUT JAYESH SHARAD	Raut	Raut	Raut	Raut	Raut	Raut	Raut	Raut	Raut	Raut	Raut	Raut
127	MANE SHUBHAM MAHENDRA	MANE	MANE	MANE	MANE	MANE	MANE	MANE	MANE	MANE	MANE	MANE	MANE
128	GOVARI ASHWINI ANANTA	Gov	Gov	Gov			Gov	Gov	Gov	Gov	Gov	Gov	Gov
129	GHATAL RAVINA RAMAL												
130	BARI MEHEK HIRAJI	Mehek	mehek	mehek	mehek	mehek	mehek	mehek	mehek	mehek	mehek	mehek	mehek
131	DIGHE AKANKSHA GOPAL	Dighe	Dighe	Dighe	Dighe	Dighe	Dighe	Dighe	Dighe	Dighe	Dighe	Dighe	Dighe
132	THAKUR TANNU SUBODH	Thakur	Thakur	Thakur	Thakur	Thakur	Thakur	Thakur	Thakur	Thakur	Thakur	Thakur	Thakur
133	SONI SHUBHANSHU SHYAMJI	Soni	Soni	Soni	Soni	Soni	Soni	Soni	Soni	Soni	Soni	Soni	Soni
134	RANE RIHATAI GIRADHAREE	Rane	Rane	Rane	Rane	Rane	Rane	Rane	Rane	Rane	Rane	Rane	Rane
135	PATIL PAYAL ANIL	Patil	Patil	Patil	Patil	Patil	Patil	Patil	Patil	Patil	Patil	Patil	Patil
136	PATIL ESHWAR LAKHICHAND												
137	GHORKHANA CHETAN JAYRAM												
138	MAHALE AJAY BHIMRAO	Ajay	Ajay	Ajay		Ajay	Ajay	Ajay		Ajay		Ajay	Ajay
139	GAVALI MAYURI LAXMAN												
140	EPELLI GANESH BULLU	Ganesh	Ganesh	Ganesh		Ganesh	Ganesh	Ganesh		Ganesh	Ganesh	Ganesh	Ganesh
141	BARI KARAN RAMAKANT												
142	SHAIKH AALIYA ABDUL LATIF	Ali	Ali	Ali	Ali	Ali	Ali	Ali	Ali	Ali	Ali	Ali	Ali
143	DESALE PRAYUKTI BHAGWAN												
144	KANOJIYA NISHA BRIJLAL	Nisha	Nisha	Nisha	Nisha		Nisha	Nisha	Nisha	Nisha	Nisha	Nisha	Nisha
145	KHAN MARIYAM NASEEM	Khan	Khan	Khan	Khan		Khan	Khan	Khan	Khan	Khan	Khan	Khan
146	SALUNKHE TUSHAR NANDU	Shant	Shant	Shant	Shant	Shant	Shant	Shant	Shant	Shant	Shant	Shant	Shant
147	GHRAT PRATHAMESH PANDURANG	Gharat	Gharat	Gharat	Gharat	Gharat	Gharat	Gharat	Gharat	Gharat	Gharat	Gharat	Gharat
148	VARMA DIPESH VINOD	Vinod	Vinod	Vinod	Vinod	Vinod		Vinod	Vinod	Vinod	Vinod	Vinod	Vinod
149	KUSHWAHA SUMIT GOVIND	Nash	Nash	Nash	Nash	Nash	Nash	Nash	Nash	Nash	Nash	Nash	Nash
150	SHAIKH NAMIRA AMIN	Nash	Nash	Nash	Nash	Nash	Nash	Nash	Nash	Nash	Nash	Nash	Nash

Analytical

COMPLIANCE REPORT

Certificate Course in Analytical Techniques was conducted for the students of F.Y.B.Sc. Students were trained for basic handling of apparatus, chemical calculations, preparation of standard solutions.

A certificate course in analytical techniques provide 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: 04/11/2019

Course Completion: 30/11/2019

Number of students enrolled for the course: 150

Number of students completed the course: 150

Duration of the course: 32 hours



Dr. Suhas Janwadkar

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 Undergraduate in
Chemistry

Name: Mandekar Mansi Sanjay

Class: FYBSC

30/11/19

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	✓				

M.M.S
Signature of student



ASST. PROF. ANISHKUMAR DUBEY EXPLAINING LABORATORY 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 is to certify that

Ms. **YADAV ANJALI R.** had successfully completed

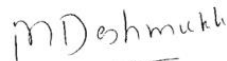
Certificate Course in Analytical Techniques



Dandekar

Head

Department of Chemistry



M. Deshmukh

CFEI - Chairman



K. Sane

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



DATE : 12/02/2020



SONOPANT DANDEKAR SHIKSHAN MANDALI'S

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

CERTIFICATE

OF COMPLETION

This is to certify that

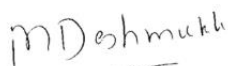
Mr. **SANKHE NILAY U.** had successfully completed

Certificate Course in Analytical Techniques



Dandekar

Head
Department of Chemistry



MDeshmukh

CFEI - Chairman



K. Sane

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



DATE : 12/02/2020



SONOPANT DANDEKAR SHIKSHAN MANDALI'S

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

CERTIFICATE

OF COMPLETION

This is to certify that

Ms. **PATIL ISHA VILAS** had successfully completed

Certificate Course in Analytical Techniques



Dandekar

Head

Department of Chemistry

M. Deshmukh

CFEI - Chairman

K. Sane

Principal
Sonopant Dandekar Arts College,
V.S. Apte Commerce College &
M.H. Mehta Science College
PALGHAR (W.R.)
Dist. Palghar, Pin-481404



DATE : 12/02/2020