

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

## **DEPARTMENT OF CHEMISTRY**

# Certificate Course in Analytical Techniques 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 Analytical Techniques**

### Report 2018-2019

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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.

**<u>Certification</u>**: 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: 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 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 two batches: The first batch in the August 2018 and the second batch in April 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

### **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	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		<ol> <li>For Acid -Base Titration – Succinic acid, benzoic acid by using NaOH.</li> <li>For Complexometric Titration – ZnSO<sub>4</sub> by using EDTA.</li> <li>For Redox Titration- Oxalic acid/Na-oxalate using KMnO<sub>4</sub>.</li> <li>Standardization of commercial sample of HCl by using Borax.</li> <li>Standardization of KMnO<sub>4</sub> by Na- oxalate/Oxalic acid.</li> </ol>	10 Hours	
7	Qualitative analysis		<ol> <li>Estimation of purity of given EDTA sample.</li> <li>Estimation of ZnO in Zinc-oxide cream by complexometrically.</li> </ol>	6 Hours	

	3. Assay of H <sub>3</sub> PO <sub>4</sub> by acid- base titration. Assay of salicylic acid.	
<b>Total Duration:</b>		32 hours

#### 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: 1<sup>st</sup> November, 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 Analytical Techniques of Batch - 1 will begin from 12<sup>th</sup> November, 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.

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Dr. Shirish Pitale Department of Chemistry - HOD

### **STUDENT ENROLMENT LIST – BATCH 1**

ROLL NO.	NAME OF THE STUDENT
1	BORSE HITESH UMESH
2	GUPTA POOJA OINESH
3	GHARAT PREKSHITA CHANDRAKANT
4	PAGDHARE JANHAVI DEVANAND
5	BARI SAKSHI MANOHAR
6	BARI ASHWITA SUBHASH
7	HUSSEN RABINAKHATUN ZAKIR
8	PAWADE SEJAL HARISHCHANDRA
9	BARI DIPTI BHALCHANDRA
10	PAGDHARE SWARANGI SUBHASH
11	ANGANE MINAL MANGESH
12	PINGALE TEJASHREE GANESH
13	KALE MADHOJ GANESH
14	WANGA TEJASWI GANESH
15	PAVIL AMISHA MOHAN
16	PATIL ADITI DATTATREY
17	PATIL MAYURI KISAN
18	PATIL TEJASVI ANANT
19	TARE RUTUJA BHUPESH
20	NAIK ADITI ANANT
21	JADHAV MANSI SURESH
22	SONA AARATI DAYARAM
23	CHHEDA ARPIT MANISH
24	SHERE AKASH GAJANAN
25	PAWAR SWAP NIL SATYAWAN
26	SAVANT ANIKET TLIKARAM
27	PANIGRAHY SWATI SANTANU
28	MORE BABITA VIJAY
29	THAKUR CHHAYA SUBODH
30	SHARAMA MOHINI DHARMENDRA



ROLL NO.	NAME OF THE STUDENT	
31	PACHANGE DHANASHREE UDDHAV	
32	ADSUL SHRUTIKA DHANANJI	
33	LOKHANDE JYOTSNA BHARAT	
34	KAJALE PRASHANT BHAURAO	1
35	PATIL DNYANESHVARI MILIND	
36	MEHER SHRUTI UMESH	
37	NAIK VRUSHALI NITIN	
38	GOUD KALPANA DILIP	1
39	PATIL ANJALI LAXMAN	
40	SAVE KRUSHIK SACHIN	5
41	PATIL JIDNESH PRADIP	
42	MORE ACHALA DEEPAK	
43	MASARE ANUJA POPAT	
44	SURYWANSHI RAGINI VIDHYADHAR	
45	VADE SANJEET UMESH	130
46	PATIL TANVI SNJAY	1
47	RAUT VAIDEHI NIRAJ	2
48	KHALIFA AYESHA NAJEEB	100
49	SHAIKH SHAfAQUE MUSARRAT	
50	MAHAJAN YOGESH VIJAY	
51	DHERE NISHA JALINDAR	
52	VINKAR SAPANA RAMESH	1
53	BORASE BHAVESH DILIP	Ī,
54	SHINDE ANKIT BABASAHEB	
55	MACHHI KAUSHAL BHAGWAN	1
56	VAZE SHUBHAM RAJESH	
57	THAKUR YADNYESH NARESH	
58	GAWAD ROHIT JAYESH	
59	PATIL ANIKET RAJENDRA	
60	BARAD SANJAY MAHADU	



ROLL NO.	NAME OF THE STUDENT
61	BATRA YOGESH RAMU
62	PATIL MAYURESH MAHESH
63	CHURI BHAGYESH VIVIEK
64	SOGALE DAKSHATA SUNIL
65	TANDEL TANMAY VISHWAS
66	CHAUDHARI MAYUR RÄJENDRA
67	DAVANE SHIVANI NARESH
68	PATIL KAUSTUBH PRAKASH
69	KAILUKE NIMISHA KRUSHNA
70	JANWADKAR HARDIK SUHAS
71	PATIL PRAIWAL TUSHAR
72	PATKAR AKSHAY MADHUKAR
73	GADKAR POORNA SAINATH
74	PUNJARA ANKITA SURESH
75	AREKAR VIRAJ BHALCHANDRA
76	MOREASHOK
77	CHAMARE RIYA
78	WHER SRUSHTI NILESH
79	ADHIKARI SANTOSH
80	PATIL SALONI
81	BORSE NAMRATA MANOHAR
82	BHOIR LALITA SHIVRAM
83	MACHHI ASHWINI SUBHASH
84	PATIL SAKSHI RAJESH
85	BARI HARSHMI ARUN
86	THAKUR SNEMA VINOD
87	NAGAR ISHWAR SAUBHASHCHANDRA
88	SAROJ DEEPNARAYAN HAWALADAR
89	DABHADE ANKUSH TUKARAM
90	KOKATE PRIYANKA SHIVAJI

and the state



ROLL NO.	NAME OF THE STUDENT
91	SHINDE NIKHIL ANIL
92	PATHAK JYOTI MAHANAND
93	SHARMA KOMAL SUSHIL
94	YADAV ABHISHEK VIRENDRA
95	ANSARI SHABANA YUNUS
96	PATIL HRUSHIKESH RAMKRISHNA
97	WAGHMARE AKSHATA TANAJI
98	PATHAN SIDDHIKA DILAWAR
99	VISHWAKARMA ANJALI MUNNALAL
100	GHUDE KAUSTUBHSUNIL
101	DESHMUKH HARDIK TUKARAM
102	REDDY NEHA DEVENDRA
103	PAGI PRAVINA JAYAVANT
104	MORE SNEHA JAYWANT
105	BHOIR RAJASHRI RAMESH
106	TARE DAMINI KAMLAKAR
107	BHOIR SAMRUDDHI KIRAN
108	VAYADA NAMITA VASANT
109	PATIL VIDHI VILAS
110	GOWARI SANSKRUTI KISAN
111	WANI YASH DHANRAJ
112	CHAUHAN ANAND SARNATH
113	TARE MOHIT ANIL
114	ERANDE SANKET BABAN
115	MAHADIK NIRANJAN SHRIKRUSHNA
116	RAUT AAKANKSHA SUNIL
117	SANKHE BHAKTI SHYAM
118	DHANMEHER GAURI NARENDRA
119	DHANPAL SHUBHAM KRISHNA
120	PATIL SIDDHARTH DINESH



#### 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: 27th March, 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 Analytical Techniques of Batch - 2 will begin from 4<sup>th</sup> April, 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.

Jo.

Dr. Shirish Pitale Department of Chemistry - HOD

### STUDENT ENROLMENT LIST

and the second	DENT ENROLMENT LIST - BATCH 2
ROLL NO.	NAME OF THE STUDENT
121	SINGH ROHIT KUMAR BASHISTH
122	YADAV MANISH VIJAY
123	CHAURASIYA RAJESH BIRENDRA
124	SHARMA SHRADHA SHIVSHANKAR
125	DOKE PRITI PANDURANG
126	KATKAR SHWETA SANDESH
127	GANJAVE PRIYANKA VALIBA
128	NAIK UNNATI ANIL
129	PATIL AOITI KONDYA
130	SAGANE VIRAJ SHANKAR
131	BHURKUD SAGAR SHANKAR
132	PAWAR SUMIT RAMAKANT
133	RAUT MAYUR KAMALAKAR
134	PATIL YADNESH MANIK
135	PATIL HARSHALI BALWANT
136	ANKUSH SUKARYA
137	PATIL ADITYA VAKESH
138	JADHAV SUDARSHAN MAHATMA
139	CHAUHAN POOJA SHIVBRAT
140	YADAV POOJA RAMAKANT
141	KUSHWAHA SUNILKUMAR BHULAN
142	KHAN ASIF MUNAWWAR
143	PATIL MANESH SURESH
144	VISHWAKARMA RINKU HEERARAM
145	GUPTA ABHINANDAN VINODKUMAR
146	BHONE SAKSHI JAGDISH
147	MACHHI CHANCHAL BHANUDAS
148	YADAV POOJA SHIVDHANI
149	PATIL MAYUR DNYANESHWAR
150	MANDAL SACHIN SARWAN



ROLL NO.	NAME OF THE STUDENT	_
151	MALI YOGESH SUNIL	
152	VACHAKAL NIKITA SHIVAJI	
153	THAKARE PRATHAMESH UDAY	
154	SINGH SONAKUMAR PREM	
155	CHAUDHARI VISHAL DILIP	
156	MAHAJAN AK5HAY SAN01P	1
157	GAIKWAD RUTUJA MAHADEV	
158	DHAPSHI AWDHESH SAOANANO	1
159	SANKHE SWAPNIL PRALHAD	1
160	NAIK NIKITA SUBHASH	
161	PATIL RAJSHREE VIJAY	
162	GHARAT PRATIK VINOD	1
163	SHIVGAN SAHILI SUDHAKAR	
164	PATIL SHWETA NAMDEV	ł
165	PATEL RUCHITA PRAKASH	
166	MERE JITESH VUAY	1
167	MORE SAKSHI VINOD	
168	MEHER UDDHAV RADHESHYAM	
169	PALKAR TEJAL CHANDRAPRAKASH	1
170	SANKHE PRATHAMESH SURESH	1
171	SAHANI GUDIYA GULABCHAND	
172	JHA ABHISHEK SHASHIKANT	Ċ
173	CHAUHAN POONAM OURGAPRASAO	
174	MAURYA SONAMKUMARI RAMLAKHAN	
175	CHAUHAN POOJA DURGAPRASAD	
176	PAIL RHUTUJA VINOD	
177	ADHIKARI VEDIKA BABAN	
178	RAVATE AAKASH TUKARAM	
179	YADAV KHUSHBU SANTLAL	
180	SHAIKH SHAHID MUSTAKIM	12



ROLL NO.	NAME OF THE STUDENT
181	SOGALE BHAVESH SANTOSH
182	YEOLE YASH YOGIRAJ
183	JHA ROSHAN ARUNKANT
184	MOHE RAKSHAK RAKESH
185	SHAIKH AAMIR ASIF
186	PIMPLE SUCHI SANTOSH
187	MAHARA NARU PADAMBHADUR
188	MANE SHUBHANGI APPASAHEB
189	TAWADE NEHA SANTOSH
190	BEHERA AKASH PADMACHARAN
191	THAKUR ROSHANI SHAILESH
192	PATIL CHINMAY DEVANNAD
193	PAT'[ RUTIK RNENORA
194	CHAKABORTI NIKHIL RAVINDRA
195	HARDAS PRATIKSHA GULAB
196	ADHIKARI RIYA SUBHASH
197	YADAV ABHISHEK INDRADEO
198	DHANU SRUSHTI RAJESH
199	GUPTA JYOTI SUBHASH
200	PATIL OMKAR SUBASH
201	MANE SULBHA DATTARAY
202	KHETAL SUDHAKAR. BALARAM
203	YADAV SACHIN BADHU
204	DAS HIRAN GAJENDRA
205	BHOSALE VICKY VISHWANATH
206	PATIL HIMANSHU MAHESH
207	GHARAT NAMIT ASHOK
208	PRAJAPATI KOMAL SANTOSHKUMAH
209	YADAV KANCHAN AVDHESH
210	BANGAR NEHA SATISH



ROLL NO.	NAME OF THE STUDENT
211	VAYEDA AJAY BACHCHU
212	PATIL SURAJ KIRAN
213	MANDAL SHIVANI VIBHASH
214	PAL SHAILESH GHANSHYAM
215	BORE RINKAL NARESH
216	CHAUGULE KUMAR BAYAJI
217	DARADE SHITAL SAMPAT
218	SISODIA DURGAKUNVAR KALYANSINGH



#### ATTENDANCE REPORT

#### **Roll No. 1 – 30**

Rol 1 2 3 4 5 .6 7 7 8 9	NAME OF THE STUDENT     BORSE HITESH UMESH     GUPTA POOJA DINESH     GHARAT PREKSHITA CHANDRAKANT     PAGDHARE JANHAVI DEVANAND     BARI SAKSHI MANOHAR     BARI ASHWITA SUBHASH	Dar Dar Dar Dar Dar Dar Dar Dar Dar Dar	Corps-	te Buyde	151111	e (Base	tal'	12/11/19	2011	211.	261,	29/12/18	28/12/18	-	-
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9	PAWADE SEJAL HARISHCHANDRA	Apoura		1	Apacont			Loterse	Rhanin		1 Minus.		RHUSSUN	phusser	- RHI
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13	KALE MADHU GANESH	MIKAU						pinok	pingk		PRW	k prok		pinsk	pi
14	WANGA TEJASWI GANESH	11 JiFrin	Coleann		Cal anon	E W. KALE		19. KALZ		M-FALE	-	M·KALE		MIKAE	
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16	PATIL ADITI DATTATREY	AP	AP-	A	4-0000-		alite		acutik		ratio		Redite	Recti	le.
17.	PATIL MAYURI KISAN	Doute		e Deuhy	AP	(Beastre	AP-	AP	-AF	Q,	AP	AP	AP.	AP-	AP
18	PATIL TEJASVI ANANT	apenia	Cattr	4 Oleusty		ALL'R		pulse		Cellule	-	Aure	Gene		
19	TARE RUTUJA BHUPESH	187	RBT	40000				életire		Alte	18th	elone	Alma	Che	ek.
20		ANaike			RB	RIST	R131	RIBI		RIBT	RBT	1.0000	RBT	12131	R
21	JADHAV MANSI SURESH	PDSon			Anara	Apricite	and the	(A) turke		Amaike		Ancite	(Marke	-	
22	SONA AARATI DAYARAM	ADJUND		Light		BIDSONG	ADSONA	Syanta	Blam		Bir	Syn	Sycan		-
23	CHHEDA ARPIT MANISH	Chheda	ADSODAD Chheder		£ 18 0-		ADJODA		ADSONA	-	ADSIDE		Annun	ADSON	A
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25	PAWAR SWAPNIL SATYAWAN				Short		( allor			(JoH exe	Gottere		asteres	cier l	
26	SAVANT ANIKET TUKARAM	Bar	680	88P		98P			98P		SSP	488	488	SSP	922
27	PANIGRAHY SWATI SANTANU		passuant	Aswen	-	queent		Bauxant		Award		Rewart	Alwant	Jen	
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H		MEHER SHRUTI UMESH	D-M.P Sinches	O.M.P Somehoz	Stehez	D.M.P	DM.P	D.M.P.	-Stehes		D-M.P	Sonehes	
-		NAIK VRUSHALI NITIN	Ander				m1. 11		-OTENey	Wik	abilities		
-	37	GOUD KALPANA DILIP	keepeene	Maik	Kalplen	Marik Koelband	Maik			Kcelpano		Maik	
-	38				Acupad			Kelpuro	PPatt	r ceyoung	Provil	PRAHL	kalke
-	39	PATIL ANJALI LAXMAN	Gatil	@Pat 1	Shachin	APRHIL	Apatil	BRati L					0
-	40	SAVE KRUSHIK SACHIN	shachin			J.P. Patil	shanin	J. P. Ratil	Chachin	J.P.Patil	achnin	J.P.Patil	J.P.Parl
-	41	PATIL JIDNESH PRADIP	JPPati	J.P. Patil	J.P.Patil	Sipraula			114 -	JITHAN			Sinan
-	42	MORE ACHALA DEEPAK	Amore	More.			AMore.	AMORE	More		AMOR	More.	
H	43	MASARE ANUJA POPAT	Amasa	Omasa	( Brow as		Bmosar		Anan		Romanse		Prose
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-	45	VADE SANJEET UMESH	Sanjeaf		santet		scinter		sun Jeat		Sanleef	scindeel	1945 14
-	46	PATIL TANVI SNJAY	BRaHI	18Patil	BPatil	TSPAHL	1 01	Efabil	TSPAHL			Frahil	
	47	RAUT VAIDEHI NIRAJ	Want	Went		WRaub	Want	VRud	Wand		Want	Raub	
	48	KHALIFA AYESHA NAJEEB	Ayesher	-	Ay eshe		Ayesher		Ayener	Ayeshe	Ayesha	Nesher	
	49	SHAIKH SHAFAQUE MUSARRAT	Sharog	Sharted		shafe		cheeted		sheele	shares		
	50	MAHAJAN YOGESH VIJAY	mangian		mentellup		mattak		Malajoon		mathala	MaHara	
L	51	DHERE NISHA JALINDAR	Scher	Misha	Nisha		nicher		nicha		Nisha	Nicher.	
	52	VINKAR SAPANA RAMESH	Supara		spana		Scipcina	- D.Man	Sapana	scepana		Scepaner	
	53	BORASE BHAVESH DILIP	BiBD		8.1.D		B.B.D		B-3.D		B: B.D	B.B.T	B.B.D
	54	SHINDE ANKIT BABASAHEB		ABSHINDE	1000	ABSHINDE		ABSHINDE	ABSHINDE		ABSHINDE		
	55	MACHHI KAUSHAL BHAGWAN	keelisha		kalisha		kushed		kellisher		kusheel		SVAZE
	56	VAZE SHUBHAM RAJESH	SUAZE	SVAZE	SVAZE	SVAZE	SVAZE	SVAZE	SVIRE	SVAZE	SVAZE	SAUSS	SVAZE :
	57	THAKUR YADNYESH NARESH		Thuke		phase		that		ythat		Mhar.	
Γ	58	GAWAD ROHIT JAYESH	REciawad	RJupiwad	RTrawad		7.011	RICrawad		RIGawad	RJGawood	RTaward	
Г	59	PATIL ANIKET RAJENDRA	A niket	Self-	Aniket	States Your	Anikef		Anitet		Anikat		
F	60	BARAD SANJAY MAHADU	Spanad.	Blazed		Marad	sparad	Balad	Barad	Barad	Basad	Barad	Barad.

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#### Roll No. 61 – 90

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61	BATRA YOGESH RAMU		22Bates	Batoa	I La La La La	4R. Baba	J	RBaba	1	Botog	1,	RBate	
62	PATIL MAYURESH MAHESH	MMRatil	M-MRatil	Paga	M.n. Rotil	MnBtil	MMRatil	n.n.Batil	MMRHI	aking		CKEdec	2
63	CHURI BHAGYESH VIVIEK	Benuti	Bhein	Behemi		Acheroi	Behen		Behuri		Mripatil	-	
64	SOGALE DAKSHATA SUNIL	SSD	SSD	072	azz	SSD	SSD	dis nerri	SD		Behem	-	
65	TANDEL TANMAY VISHWAS	TTV	TTV	1	UTT .	00-	TTV		STT		SSD	-	
66	CHAUDHARI MAYUR RAJENDRA	-	Reperson	Mchau	PRChercy	MRChay		MRchay	110	Mal	-	-	
67	DAVANE SHIVANI NARESH	SMdavin	S.N.davm	S. NCLUM	espidave	H INCINCY	[miclay		Sindame	MRChou	S Mchavy		T
68	PATIL KAUSTUBH PRAKASH	Doubril	Pate	Popate	Dorft, d	Prate	Pratil		2		> Maavy	4	
69.	KAILUKE NIMISHA KRUSHNA	EKNI	AKN.	K.KW.	K.K.N	K.KN	part	KKN	K.KN		KIKN	-	
70	JANWADKAR HARDIK SUHAS	Handik		Hondik	the second se	Hondik		Handik	V.V.G	Le 141.		Handik	
71	PATIL PRAJWAL TUSHAR	TPPatil	IPPatil	TPPatil	TPPair	TIPAti	TPRAFil	TPRATU		Harodik: TPPafu		Handi K	
72	PATKAR AKSHAY MADHUKAR	ARMUN	Azuli	ARalai	ABili	Anus	Apuli	ARMIN	ARIULI	FRAAU	TPPatu	-	
73	GADKAR POORNA SAINATH	Q. SGadke		PS-Gactives	1 Mai	P.SGalkee	produce	P. Sadker	Hand	P.SGadie	ARuhi		
74	PUNJARA ANKITA SURESH	Prijana		Pryana	Riciana	Reiasta	Prijaza	Prijana				-	
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77	CHAMARE RIYA YOGENDRA	Piya	Ruja	Riya	Buld	Riya	Riva	CA MILL	Billa	2 ATTOR	SArlone		
78	MEHER SRUSHTI NILESH	SNIMERRE	SNIMehee		SNmehre			SNimelee	SMmehre	al mala ca	Riya		
79	ADHIKARI PRATIKSHA SANTOSH	AB	HE .	AB	AB-	APP_	RC	AB	APS	Fle	shmehe	E	
80	PATIL SALONI SANTOSH	S&Patil	SERAHI	SEPALIL	38 Patil	S& Patil	SSPatil	SSPatil	SSPatil	SEParil	SSPafu		
81	BORSE NAMRATA MANOHAR	Mosera	Nonboese	Nonhoese		Nimborer	oorunc	Nonborse.	SELUTIC	Notere	saparu	8880	4
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84	PATIL SAKSHI RAJESH	S.R Patil		S. R. Patil	- to un a	S.RPatil	S.R. Parul	S.R. Patil	A smilli S.R. Paril	S. R. Patil	Asall'		
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86	THAKUR SNEHA VINOD	TSHOW		Trivino.		Tindo	STEDEL				HBart		
87	NAGAR ISHWAR SAUBHASHCHANDRA			DIK	NK	Ta	TH	NES	TSVinoc .	DVINCO_			
88	SAROJ DEEPNARAYAN HAWALADAR	SIDTA		SPA	SOH		SPM		Co. A	12	14	-	
89	DABHADE ANKUSH TUKARAM		A		Aublich	Autokuch	A		SDH		SDA	SDA	7
90	KOKATE PRIYANKA SHIVAJI	KPE	KES	KRS	Turning	hubicith	KPS	Andus	KRE		Ankuch		

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#### Roll No. 91 – 120

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9.	4 YADAV ABHISHEK VIRENDRA	Phelan	Fladar		Alachar	Aladar	-	Aladar		Ethelers	Aradas			Aladard	ATO
9	5 ANSARI SHABANA YUNUS	8	8	8	8	8	-8	1	B	B	01-5-5	-8		The second	
9	6 PATIL HRUSHIKESH RAMKRISHNA	H.P.R	H.P.R	H.P.R	H.P.R	H.P.R	H.P.R	H.P.R.	H.P.R	H.P.R			H.P.R		
9	7 WAGHMARE AKSHATA TANAJI	Alexagher		Awaghan		Awaghan		Freecoher		Thereghen	•	Awagher		Aughore	Awa
9	8 PATHAN SIDDHIKA DILAWAR	SPP		SPD	SPD.		SPD	SPD	SPD	5	SP0	SPD		-390	Anje
9	9 VISHWAKARMA ANJALI MUNNALAL	Anjali	Aniali		Anjaili		Anjali.	Anjalli	Anjalo	1	Anjale	Anjali			Anjo
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10	2 REDDY NEHA DEVENDRA														
10	3 PAGI PRAVINA JAYAVANT	Bagi	Page	Pidai	Plage	Pagi		Ragi	Plag	Prage	Rage		Pangi		
10	4 MORE SNEHA JAYWANT			1		3-0-		3-0		2.9	2.0.				
10	5 BHOIR RAJASHRI RAMESH	Righnee	Bahre	P	Rashne		Riash	Rishnes		Rigghos	Plane	_	Rishnee		Res
10	6 TARE DAMINI KAMLAKAR			Dare	DIONE	19.00	Dase	Dare.	DTase	Tare	Diare	Dare	Diare.		-9
10	7 BHOIR SAMRUDDHI KIRAN		VILLA		0	10202	-							and the set	112
10	8 VAYADA NAMITA VASANT										The second second				11000
10	9 PATIL VIDHI VILAS	Patil	Patel	Palel		Patel	Blela		Reli	Patel	Patel	-	Patil		inter a
11	0 GOWARI SANSKRUTI KISAN								- n.					Property and	AL TO
11	1 WANI YASH DHANRAJ	Duri	Durani		Dwani		grooni	Deani	Dunni	1	Dwani	Dugni		Deveni	you
11	2 CHAUHAN ANAND SARNATH	-					Queres.		0-0-01		0	June			
11	3 TARE MOHIT ANIL	Marre	Flore	Plare	Store		Mare		Mare		atore			-1219	
11	4 ERANDE SANKET BABAN	Sunket	sanke	-	Sankel		Sentle		Sinkel		Enkel		Sankel	Sanket g	ant
11	5 MAHADIK NIRANJAN SHRIKRUSHNA	1						1 2014							1
11	6 RAUT AAKANKSHA SUNIL	Reaut		Brout		ARaut		Baut	•	Raut	about		ARaul-	Recet	AR
11	7 SANKHE BHAKTI SHYAM	- Contra	1.250.00	CA CINA	1	P.M. COM	-	10-suiza		-	CARLINES.	- Andrews	aprene v		
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#### Roll No. 121 – 150

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121	SINGH ROHIT KUMAR BASHISTH	Deliter	0.	Rehita	Sechile	Rehiter	5.3	Delita		Sichila	Sienditer	-
122	YADAV MANISH VIJAY	(UBadw	appelin	Weielns		agacho	yaan			- Volation	Stelly	F
123	CHAURASIYA RAJESH BIRENDRA	Delfesho	Radash	Betesh	Research	Ragosh		Recksh	Relash	Batesh	Relash	
124	SHARMA SHRADHA SHIVSHANKAR	Some	Sunny	Serma		Saran	20		Schort	(Sam-		-
125	DOKE PRITI PANDURANG	Aute	Bere		ADocke		Date		(Parke		Alerka	-
126	KATKAR SHWETA SANDESH	Steator	Scanteer	Storter		(S) of a		Skertee		(Speite	Slowter	21
127	GANJAVE PRIYANKA VALIBA	Privanko	properly	minkake,	Privenaka	privente	Privinka	priy nata	priynet	Privapta	priyanka	
128	NAIK UNNATI ANIL	Uneceli	unneafi	lenceti		unnal,				integet		
129	PATIL ADITI KONDYA	ADiti	ADTH		ADiti		1 Ditti	ADit)	A Diti		ADiti	0
130	SAGANE VIRAJ SHANKAR	viber	1	rival	VERCY	Throughtern	viscy		virel	Vircy	ring	
131	BHURKUD SAGAR SHANKAR	sayan		Sayus		Scegr	Sugar		Sugar	Sayers	Sas,	
132		Justi	Jalvi		Judiri	Auti	Julvi		palli	porti	Pool;	
133	RAUT MAYUR KAMALAKAR	Mayur	Mayuz	Contraction of	Mayuz	Mayuz	Mayuz		Mayuz	Mayuz	Mayuz	Ma
134	PATIL YADNESH MANIK	publ.	Juck	Rus	Contraction of the	mil	pull		Pull	Fuk	Ruk	P
135	PATIL HARSHALI BALWANT	Anatel	Aprile	Abriled	Abertal	Aprilel		Abati		Aprilil		A
136		Ankes	Ankes	Gran	Ankes	Anker		Ankes	Andres	Ankis	Anka	A
137	PATIL ADITYA VAKESH	Rulas	Ruly	Russ		mile		Puri	Puti	puli	Puli	
138	JADHAV SUDARSHAN MAHATMA	M.C.T	TISIM		1.5.17	). S.M	1.5.1	1.5.11	Sector Contraction	J.SM	J. S.M.	
139	CHAUHAN POOJA SHIVBRAT	poota	20070	96070	DOOD	POOTO	80070		pooro		POOTO	1
140	YADAV POOJA RAMAKANT	PRXdav	P.R.Yoday	P.R.Yadav	P.R. Vodav	P.R.Yadau	PRYaday	P.R.Yodau	PRYOCOLUS		PRVodav	PR
141	KUSHWAHA SUNILKUMAR BHULAN	Kent	Kub	Kub	Kulp	Kung	1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1	Kaup	Kunt	Kuerb	kuß	-
142	KHAN ASIF MUNAWWAR	pref	Aget	ARIF	Ast		ASE	AST		ASt	Asf	9
143	PATIL MANESH SURESH	portel	Male	Roald		mpale	populi	1	Mall	mpall		C
144	VISHWAKARMA RINKU HEERARAM	Runk		Rickel	purker	Rinke			Priku		puller	
145	GUPTA ABHINANDAN VINODKUMAR	Augute	Augud	Auputo	Durda			Augat	19.000	Arreta		
146	BHONE SAKSHI JAGDISH	Sehone	Statione	sophone	solutione	Soldhome	sebhone	0.11	Sybhone	Solome	Stophono	- 58
147	MACHHI CHANCHAL BHANUDAS	amachi	amachie		amachi-	anacchi	anochi	amachi	anacht		anachi	1
148	3 YADAV POOJA SHIVDHANI	Puecher	1	Descale	1	Anjada		Readau	Popula		Rycide	10
149	PATIL MAYUR DNYANESHWAR	Dergut	Mayur	1 alyer	Mayer	Rodjus		40	Mayur		mayur	-
150	MANDAL SACHIN SARWAN	Samonda	Samanda	SSmanddl	S&mando	S& maudo	4	s&manda	smanda	Ssmandal		68

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#### Roll No. 151 – 181

151	MALI YOGESH SUNIL	Dishi	abyen	togeth	Astah		theres	HAGH	Harsh	ypesh	Steer	-y-gash	Lagesh	
152	VACHAKAL NIKITA SHIVAJI	Nikiba	Nikolog	2.	Nikita	Nikita		Nikita	Nikita	00	Nikita	Nikita	Nikita	
153	THAKARE PRATHAMESH UDAY											-		
154	SINGH SONAKUMAR PREM													
155	CHAUDHARI VISHAL DILIP	15hap	Urhes	vistres	Under	virba	vishel	uishal	India	Uishal	vishe	Visher	Wishen	7
156	MAHAJAN AKSHAY SANDIP	Abrahaman	Armetaja	Arnavarce	-	KENahap		Armahan	AEmolici	Armaha	_	Alanap		
157	GAIKWAD RUTUJA MAHADEV	RUKAP	puty	PUTUP	PTUER	-P-Hall	RUAS	-		Putap	-	Pupil ()	-	
158	DHAPSHI AWDHESH SADANAND	ADOP	Anhapo	ADIAD	ADVOR	- 9			NIKAR!	MOMORY		Amapi		
159	SANKHE SWAPNIL PRALHAD	Smapus	Suppri	Lagoure	anamie	-		swaph	1 1	SUIDIN	1	Sugan	-	
160	NAIK NIKITA SUBHASH	Nick	NICH	NICE	-Nicul	NICIO			Nith	- 1	Nim		NILOS	-B
161	PATIL RAJSHREE VIJAY	NUC	WH47	with	NO		die	Whe		A	NHC	No	Dele	pt-
162	GHARAT PRATIK VINOD	Rotes	Rofi	DEUX	prosti	Pret	Prop	Protite	psatik			quinc	prost	
163	SHIVGAN SAHILI SUDHAKAR	Sawill	-	SAVIN		Sawill		Solully	1	milit	-	ginite	CIMAS_	
164	PATIL SHWETA NAMDEV	swetce	SWRA	swerg	swerg	20che	suche	swene	suer.	average	Swell	swetay	suera	
165	PATIL RUCHITA PRAKASH	RD_	PD	PD-	PP	PP	a	PP-	PD.	PD-	RP	RD-	\$0	
166	MERE JITESH VIJAY	Array	UTTOY	Unay		lunay	Vitay			lingay	Unay	Unoy -		-
167	MORE SAKSHI VINOD	Salashi	Sakh	Gelal	Salah	Sakal	Sala	Salali	Socktor.	Saksh!	gabahl	sable	Sebs11	_
168	MEHER UDDHAV RADHESHYAM	UDD	URA	UPD.	-UPD-	UP	-		-	UPS		Kas	005	and the second s
169	PALKAR TEJAL CHANDRAPRAKASH	reve	Trye	Tega	-						A LANGER		The seal	1
170	SANKHE PRATHAMESH SURESH	SHERCH	desavo	Superto	SURCEL	gircelo	souresh	Sitesia	245056	- sacesh	Aresh	surab	sauces	
171	SAHANI GUDIYA GULABCHAND	GANNE	Guedite	A A	Gudlyg		Gudlyg		Gudiya		Gudya		Gudling	
172	JHA ABHISHEK SHASHIKANT	AST	A.S.T	A.S.J		A.S.J	A'SJ	AS.J		ASJ	A.S.J		A.S.J	
173	CHAUHAN POONAM DURGAPRASAD	Dochantes	10 chaper	Bichanter	pocuation	porhavan	portawan	DOCUCION	Docuaun	- pochave	-pocuava	-	Parader	-
174	MAURYA SONAMKUMARI RAMLAKH	ANGME	Sinc	SIE	-	300		Sus	1	Sup	-	-		
175	CHAUHAN POOJA DURGAPRASAD	Rooja		Pond	Apoja	Bigd	_	proja		-Poold		-Pooja		
176	PATIL RHUTUJA VINOD	Ribl		Rabil	Rentil		Rotil		Robbl	-	Recht	-	Refixe	
177	ADHIKARI VEDIKA BABAN	Vedike		Verlike	Vedika	Vedika	Updiko	)	Vedika		Vadiku		Vedika	-
178	RAVATE AAKASH TUKARAM	AR	AR		AR	A.R		AIR		AR	A-R	AR	AR	
179		Senal	Jadell		piden		Indau	Secolell	Jacks	Hader	Jaulus	Spaler	Jadell	
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#### **Roll No. 182 – 212**

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	183 JHA ROSHAN ARUNKANT	An	RAILA		RATHA	RADA		RATha	RAJha	RATha		RAJIA R
	184 MORE RAKSHAK RAKESH	R MOL	@moz-	emos:	Rmora	Omoza_	Rmoza	8 more	ema	Rmoo	2mos	
	185 SHAIKH AAMIR ASIF	Sherikh	streetth	shackh	Sheikb		Shaikh	sheiteb	Shoikh	sheikh	straight	sheikh s
	186 PIMPLE SUCHI SANTOSH					KI S XLUS L		100 BU		1		
	187 MAHARA NARU PADAMBHADUR	Methana	Mohong	Maheroa	Mahara	Pahara	Mahana	Nahara			Aghana	
	188 MANE SHUBHANGI APPASAHEB				amana			Roman		Ronaute	Brneir	2 Bruan
	189 TAWADE NEHA SANTOSH	meha	Ncha	Neha	Neha	Reha	Reha	Neha	Deha	Reha	Deha	7 201101
	190 BEHERA AKASH PADMACHARAN				-				THURSDAY !!			
	191 THAKUR ROSHANI SHAILESH	Ahale	Rethack	Rhah	Athele	-	Rethake	Phales		Otherke	- (M	
	192 PATIL CHINMAY DEVANAND	Qualis	Cipal	Expat		apall			apert		Operfil	
	193 PATIL RUTIK RAJENDRA	Roti(	Ratil	Ratic	Ratil	Ratil	Ratil	Ratil	Ratil	Rotil	7	
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2	195 HARDAS PRATIKSHA GULAB	Hered			fined	Hend		Here	Heel	Hured		fund
	196 ADHIKARI RIYA SUBHASH	Riza	Riya		Rieja	Rilla		Ring		Rouga		
	197 YADAV ABHISHEK INDRADEO	ADRENAN	Artaular	AIVerclar	AIVedan	- 0	ATYadan	- d	Aryadar	ALYACLY		
	198 DHANU SRUSHTI RAJESH	SkDhany	SRDhany	SR.Dhany	SADrony				SRDhany	-SRDhany	SADran	ARDrony :
	199 GUPTA JYOTI MANOJ	10,000	Regarde	Promista	Baunto	Rounto	acupto	Pyupter	agenes to	Paupil	Burnt	1
	200 PATIL OMKAR SUBHASH	Mikas	2MKax	OMKar	ATKAR	OMKar	0011	OMKar	OMKAT	PM Kar	00 10	CHIKAT O
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	206 PATIL HIMANSHU MAHESH	Corcos				Gurgen	Summer		CO TES			-
	207 GHARAT NAMIT ASHOK	Alet	ANLEST	AVOLE	Hrift.	AKIN	Albert	Arcet	ANCH .	ALOT.	ANOT	
	208 PRAJAPATI KOMAL SANTOSHKUMAR	Kond	Land	Konal	Icond	momal	Komal	Kamal		Komal	kom	Kont
	209 YADAV KANCHAN AVDHESH		Vuelta	ruhe	Kulch	Kounch		Kouch	Karch		Keench	/
	210 BANGAR NEHA SATISH		Barlery	to see		Promo	10000		Bargar		Barya	
		BRUI		BUU	Ruut	Rut	vRut		But	But	VReit	VBret
	212 PATIL SURAJ KIRAN	2 Au	Incetil	Boatel	and a	Seatel	Roctul	Spaler			Spatil	1

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#### **Roll No. 213 – 218**

213 MANDAL SHIVANI VIBHASH	Shineury	Station	Shhan	-Arivenit	Shiveni							shirem	
214 PAL SHAILESH GHANSHYAM	Pale	PAL.	RAL	Peul	Ralt	Reast	Roul			Reel	Real	Reet	
215 BORE RINKAL NARESH	Rinka	Rinta	Rinkal	Rinked		Rinker	Rinkal	Rinkal	Rinka	Rinkal	Rinkal	Rinkal	
216 CHAUGULE KUMAR BAYAJI	KOMIGE		tumas.	- Emab	Kumas		- DONNOLE		Funcion	Kumay	-	kumar	-
217 DARADE SHITAL SAMPAT	SP-	P	\$	-B-	8	-8-		\$	P-	-	\$	P	
218 SISODIA DURGAKUNVAR KALYANSING	GH Drizo	Deigo	Dsiso	Delso	2)490	Deiso	Heiso	Dsiso	Duiso	Duso	Duiso	Deiso	
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#### **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.

#### Batch I

Course Commencement: 12/11/2018

Course Completion: 28/11/2018

Number of students enrolled for the course: 120

Number of students completed the course: 120

Duration of the course: 32 hours

#### **Batch II**

Course Commencement: 04/04/2019

Course Completion: 16/04/2019

Number of students enrolled for the course: 98

Number of students completed the course: 98

Duration of the course: 32 hours

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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 Undergraduate in Chemistry

Name: <u>Aarli Dayaram Song</u>

Class: F.Y.B.Sc.

Roll No.: \_22.

Ιο.	Parameters	Strongly Agree	Agree	Neutral	Disagree	Strongly Disagree
	After completing this course, my knowledge in the topic has increased.	~				
	This course increased my interest in chemistry related topics.	1				
	The teacher communicated clearly and effectively	~				
	The teacher encouraged feedback, class participation and interaction	/				
	The course started and ended on schedule	$\sim$				
	Course objectives were clearly presented	-				
	Course material was well prepared	-	1.0			
	The course developed my understanding of concepts and principles	-				

ARIONA Signature of student 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: JAKSHI RAJESH PATIL

Class: F.Y.B.Sc

Roll No.: 84

10.		Strongly Agree	Agree	Neutral	Disagree	Strongly Disagree
	After completing this course, my knowledge in the topic has increased.	~				B. c.
	This course increased my interest in chemistry related topics.	/				
	The teacher communicated clearly and effectively	/				
	The teacher encouraged feedback, class participation and interaction	/				
	The course started and ended on schedule	~				
	Course objectives were clearly presented	~				
	Course material was well prepared	~				
	The course developed my understanding of concepts and principles					

S. R. Pati) Signature of student

### **ACTION PHOTOGRAPHS**



Dr. VAIBHAVA MORE EXPLAINING LABORATORY TECHNIQUES

#### SAMPLE CERTIFICATES

