"बान, विद्यान आणि सुसंस्कार यासाठी शिक्षणप्रसार" शिक्षणमहर्षि डॉ. बापूजी साळुंखे

SHRI SWAMI VIVEKANAND SHIKSHAN SANSTHA'S, KOLHAPUR

Dattajirao Kadam Arts, Science & Commerce College, Ichalkaranji.

Academic year 2024-25

DEPARTMENT OF CHEMISTRY

Short Term Course

Basic Analytical Techniques in Industry

Duration 2nd September 2024 to 26th December 2024



Permission Letter

Head,

Department of Chemistry

Date: 17/08/2024

To,

The Principal,

Dattajirao Kadam Arts, Science and Commerce College,

Ichalkaranji.

Subject: Seeking Permission to conduct the Basic Analytical Techniques in Industry Certificate Course.

Respected Sir,

With the reference to above cited subject, Department of Chemistry wants to conduct Basic Analytical Techniques in Industry course under Department of Chemistry, DKASC College Ichalkaranji, in academic year 2024-25. So hereby we are requesting you to permit us to conduct the said course in the academic year 2024-25.

Thanking You,

Yours's faithfully

Dr. D. A. Kumbhar HEAD,

Department of Chemistry,
Dattajirao Kadam Arts, Science
& Commerce College,
ICHALKARANJI.

Sanction Letter

Head,

Department of Chemistry

Date: 17/08/2024

To,

The Principal,

Dattajirao Kadam Arts, Science & Commerce
College, Ichalkaranji.

Subject: Regarding sanction to Board of Studies for Short Term Course.

Respected Sir,

It's my pleasure to inform you that, in the academic year 2024-25 our department will conduct a Short Term Course entitled "Basic Analytical Chemistry in Industry" for B.Sc. Part III Chemistry students. This course will be beneficial to our students. The duration of this course is 30 hours. For this course our department is decided to form the Board of Studies as follows:

Chairman: Dr. S. M. Maner (Principal)

Internal Member: Dr. D. A. Kumbhar (Head, Department of Chemistry)

Internal Member: Mr. N. H. Waghmare

External Member: Dr. S. D. Shirake (VC College, Kolhapur)

External Member: Dr. A. S. Tapase (VC College, Kolhapur)

So please sanction the mentioned B.O.S

Thanking You.

Yours faithfully

Dr. D. A. Kumbhar HEAD,

Department of Chemistry,
Dattajirao Kadam Arts, Science
& Commerce College,
ICHALKARANJI.



"Dissemination of Education for Knowledge, Science & Culture" - Shikshanmaharshi Dr. Bapuji Salunkhe Shri Swami Vivekanand Shikshan Sanstha, Kolhapur's

rao Kadam Arts, Science and Commerce College, Ichalkaranji.

Tal. Hatkanangale, Dist. Kolhapur - 416 115. Office : (0230) 2420 412

(Permanently Affiliated to Shivaji University, Kolhapur - No. Affi/T-2/5049 dt. 10-07-1999) ज्यु. कॉलेज-शासन आदेश क्रमांक - एचएससी/०७/वीस/एकवीस, दि.६-५-१९७६ Jr. Index No. J-23.06.001

Founder nmaharshi Dr. Bapuji Salunkhe D.Lit.

Hon. Chandrakant (Dada) Patil Minister, Higher and Technical Education, Gov.of.Maharashtra Chairman

Hon, Prin, Abhaykumar Salunkhe

Secretary

Principal Dr. S. M. Maner M.A. M.Phil., Ph.D.

tward No. : DKASC /

Date:

DEPARTMENT OF CHEMISTRY

Board of Studies Committee

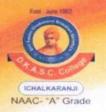
For Short Term Course on

Basic Analytical Chemistry in Industry

Name of the member	Position	Address				
Dr. S. M. Maner	Chairman	Principal,				
	Chairman	Dattajirao Kadam Arts, Science and Commerce College Ichalkaranji				
	•	Head,				
Dr. S. D. Shirake	Member	Department of Chemistry, Vivekanand,				
		College Kolhapur				
Dr. A. S. Tapase		Assistant Professor,				
	Member	Department of Chemistry, Vivekanand,				
		College Kolhapur				
	1	Head,				
Dr. D. A. Kumbhar	Member	Department of Chemistry,				
		Dattajirao Kadam Arts, Science and				
		Commerce College Ichalkaranji				
	/	Assistant Professor,				
Mr. N. H. Waghmare	Member	Department of Chemistry,				
		Dattajirao Kadam Arts, Science and				
		Commerce College Ichalkaranji				



Dr. S. M. Maner Principal, D.K.A.S.C. College, Ichalkaranji.



"Dissemination of Education for Knowledge, Science & Culture" - Shikshanmaharshi Dr. Bapuji Salunkhe

Shri Swami Vivekanand Shikshan Sanstha, Kolhapur's

Dattajirao Kadam Arts, Science and Commerce College, Ichalkaranji.

Tal. Hatkanangale, Dist. Kolhapur - 416 115. Office: (0230) 2420 412

Principal: (0230) 2991617 Email: dkasccollege@gmail.com (Website: www.dkasc.ac.in

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Founder D.Lit.

President st (Dada) Patil Minister, Higher and Technical Education. Chairman M.A.

M.Sc. B.Ed.

Principal M.A. M.Phil., Ph.D.

Outward No.: DKASC / 2771. 25 | 2024-25

Date: 19/08/2024

Invitation Letter

To.

Dr. S. D. Shirake Head, Department of Chemistry Vivekanand College, Kolhapur

Subject: Invitation to become a member of the Board of Studies.

Respected Sir,

Greetings from DKASC College, Ichalkaranji we are a renowned institution affiliated with Shivaji University, Kolhapur. Since our establishment, we have been dedicated to uplifting rural students through relentless efforts. Our commitment to excellence is evident as we are accredited with an A grade by NAAC. The courses we offer are as follows.

Course	Intake
1) B.A/B.Com./B.Sc.	360
2) BCA	80
3) M.Sc.	20
4) M.A	100

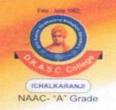
We are delighted to extend our invitation to you to join the Board of Studies in Chemistry for the development of the syllabus for the short term course titled 'Basic Analytical Techniques in Industry'.

I am writing to formally confirm our previous discussion regarding your participation as a member of the BOS. Your willingness to contribute your time and expertise to the syllabus development process is greatly appreciated.

Thanks & regards.

Yours faithfully,

Dr. S. M. Maner Principal, D.K.A.S.C. College, Ichalkaranji.



"Dissemination of Education for Knowledge, Science & Culture" - Shikshanmaharshi Dr. Bapuji Salunkhe

Shri Swami Vivekanand Shikshan Sanstha, Kolhapur's

Dattajirao Kadam Arts, Science and Commerce College, Ichalkaranji.

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ज्यु. कॉलेज-शासन आदेश क्रमांक - एचएससी/०७/वीस/एकवीस, दि.६-५-१९७६ Jr. Index No. J-23.06.001

Shikshanmaharshi Dr. Bapuji Salunkhe D.Lit. President
Hon. Chandrakant (Dada) Patil
Minister, Higher and Technical Education,

Chairman n. Prin. Abhaykumar Salunkhe Secretary on, Prin. Mrs. Shubbangi Gawade M.Sc., B.Ed. Principal Dr. S. M. Maner M.A. M.Phil., Ph.D.

Outward No.: DKASC / +HET 2026-25

Date: 19 | 08 | 20 24

Invitation Letter

To.

Dr. A. S. Tapase Assistant Professor, Department of Chemistry, Vivekanand College, Kolhapur

Subject: Invitation to become a member of the Board of Studies.

Respected Sir,

Greetings from DKASC College, Ichalkaranji we are a renowned institution affiliated with Shivaji University, Kolhapur. Since our establishment, we have been dedicated to uplifting rural students through relentless efforts. Our commitment to excellence is evident as we are accredited with an A grade by NAAC. The courses we offer are as follows.

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1) B.A/B.Com./B.Sc.	360
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We are delighted to extend our invitation to you to join the Board of Studies in Chemistry for the development of the syllabus for the short term course titled 'Basic Analytical Techniques in Industry'.

I am writing to formally confirm our previous discussion regarding your participation as a member of the BOS. Your willingness to contribute your time and expertise to the syllabus development process is greatly appreciated.

Thanks & regards,

Yours faithfully,

Dr. S. M. Maner Principal, D.K.A.S.C. College, Ichalkaranji

Notice

All the members of the Board of Studies of (STC) Basic Analytical Techniques in Industry course of Dattajirao Kadam Arts, Science and Commerce College, Ichalkaranji are hereby informed that the first meeting of the B.O.S. is scheduled on Wed, 20th Aug, 2024 at 8.30 am through online mode using Google meet platform. Please make it convenient to be present for the meeting. The agenda of the meeting is as follows.

Agenda for the meeting:

- 1) To review structure of the syllabus for Basic Analytical Techniques in Industry course.
- 2) To design the syllabus for Basic Analytical Techniques in Industry course
- 3) To finalize the list of instruments required as per practical syllabus.
- 4) Any other matter with the permission of the Chair.

Dr. D. A. Kumbhar

Department of Chemistry,
Dattajirao Kadam Arts, Science
& Commerce College,
ICHALKARANJI.

chemistry, ints, Science Dr. S. M. Maner
Principal,
D.K.A.S.C. College,
Ichalkaranji.

Minutes of Meeting

A meeting of Board of Studies of the Basic Analytical Techniques in Industry course. Course was held on 20-08-2024 at 08:30 AM in on line mode.

The following members were present

Name of the member	Nomination
Principal, Dr. S. M. Maner	Chairman
Dr. D. A. Kumbhar	Member
Dr. S. D. Shirke	Member
Dr. A. S. Tapase	Member
Mr. N.H. Waghmare	Member

Leave of absence

1. Leave of absence was granted to the Dr. S. D. Shirake, (External Member) by the Chairman Board of Studies.

The Mr. N. H. Waghmare welcome all the members who were present for the meeting and meeting initiate with the guidance of Chairman Principal Dr. S. M. Maner. The meeting was there after deliberated by Dr. D. A. Kumbhar on agenda items as had been approved by the Chairman

Item No. I Allotment of number of hours per unit

Dr. A. S. Tapase suggested adding number of hours to each unit to define weightage of each unit other BOS members also agreed to this point and suggest its distribution.

Item No. 2 Corrections in syllabus contents

Dr. S. D. Shirke suggested unit for basic analytical techniques in industry course. Also, Dr. D. A. Kumbhar advised to instrumentation part in course. All BoS members also agreed to these revisions in syllabus.

Item No. 3 Industrial Training/ Visit Commended

For better understanding of students Industrial Training/ Visit suggested by BOS members whenever possible. The meeting concluded at 9:45 AM with a vote of thanks by Mr. N. H. Waghmare member Board of Studies,

Based on the suggestion of committee members, Changes has been incorporated and added All course syllabus has been approved with incorporating the recommendations and suggestions.

Dr. D. A. Kumbhar HEAD,

Department of Chemistry,
Dattajirao Kadam Arts, Science
& Commerce College,
ICHALKARANJI.



Dr. S. M. Maner
Principal,
D.K.A.S.C. College,
Ichalkaranji.

"ব্লান, বিব্লান প্লাণি সুমানকাম যামাঠী প্লিপ্লাণ্যমাম"

शिक्षणमहर्षि डॉ. खापूजी भाळुंखे

SHRI SWAMI VIVEKANAND SHIKSHAN SANSTHA'S, KOLHAPUR

Dattajirao Kadam Arts, Science & Commerce College, Ichalkaranji.

DEPARTMENT OF CHEMISTRY

Academic Year 2024-25

Syllabus: Basic Analytical Technique in Industry

Short Term Course

(Theory Credits: 20 lectures)

Unit I Basic Concepts in Industrial Chemistry (05)

Definition and Explanation of terms -Normality, Equivalent weight, Molarity, Molecular weight, Molarity of mixed solution, Acidity of base, Basicity of acid, ppt, ppm, ppb, ppm solutions, Mole Fraction, Weight fraction, Percentage composition by W/W, W/V, V/V, Problems based on Normality, Molarity, mole fraction, mixed solution, etc.

Unit II Introduction to Analytical Techniques (05)

Introduction, Purification of solids, Crystallization, Distillation-simple distillation and fractional distillation, Solvent extraction, Chromatographic techniques- Adsorption chromatography and partition chromatography.

Unit III Unit Operations (05)

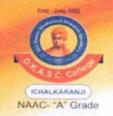
The difference between classical chemistry and industrial chemistry, Raw material for the Chemical Industry, Material Safety data sheets, Units that make up a chemical process-unit operation and unit processes, Flow Diagrams, Block Diagram, Process flow diagram / flow sheets, Material Balances-The purpose of mass balance calculations, Material Balances for multi species, Unit operations- i) Size reduction- Principle, Jaw crusher, ball mill, ii) Size enlargement — Purpose of size enlargement, Principle- pellet mill and tumbling agglomerates iii) Separation -Magnetic separation method and Froth floatation method.

Unit IV Laboratory Instrumentation. (05)

Introduction, construction and working, Applications - Conductometer, Colorimeter and spectrophotometer, pH meter, Polarimeter.

Practicals- (Practical Credits: 10 lectures)

- 1. To determine the percentage purity of given soda-ash sample.
- 2. Estimation the amount of Aspirin from given tablet.
- 3. Determination of titrable acidity in the given sample of milk or lassi.
- 4. To determine the hardness of water.
- 5. To determine the normality of strong acid by conduct metric titration.
- 6. To determine the unknown concentration of copper by colorimetric method.
- 7. Determination of amount of sodium present in the given solution of common salt using cation exchange resin.
- 8. To determine the amount of HCl in given of commercial samples.
- 9. To determine the specific rotation of cane sugar solution using Polarimeter.
- 10. To determine the amount of nitrogen from given fertilizer sample.
- 11. To determine the pH of given solution.
- 12. To separation of two component from given mixture and determine the physical constant.



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Founder ırshi Dr. Bapuli Salunkhe D.Lit.

Hon. Chandrakant (Dada) Patil Minister, Higher and Technical Education. Gov.of Maharashtra

Chairman

Secretary

Principal M.A. M.Phil., Ph.D.

Outward No.: DKASC/ 21214 / 2021p- 25

Date: 20/08/2026

Appreciation Letter

To, Dr. S. D. Shirake Head, Department of Chemistry Vivekanand College, Kolhapur

Subject - Appreciation Letter...

Respected Sir,

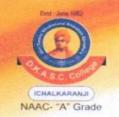
With respect to above mentioned subject, we would like to take this opportunity to thank you on behalf of our college for working as BOS Member for the "Basic Analytical Chemistry in Industry" of B. Sc. III ofall students. Once again, thank you for your presence, valuable suggestion and guidance. We appreciate your continued support.

Thanking You.

Yours'sfaithfully



Principal, D.K.A.S.C. College, Ichalkaranji.



"Dissemination of Education for Knowledge, Science & Culture" - Shikshanmaharshi Dr. Bapuji Salunkhe Shri Swami Vivekanand Shikshan Sanstha, Kolhapur's

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Founder

Gov.of.Maharashtra

Secretary

Principal

Outward No.: DKASC / 3/1767 / 2024-28

Date: 20/08/2024

Appreciation Letter

To.

Dr. A. S. Tapase Assistant Professor, Department of Chemistry Vivekanand College, Kolhapur

Subject - Appreciation Letter...

Respected Sir,

With respect to above mentioned subject, we would like to take this opportunity to thank you on behalf of our college for working as BOS Member for the "Basic Analytical Chemistry in Industry" of B. Sc. III of all students. Once again, thank you for your presence, valuable suggestion and guidance. We appreciate your continued support.

Thanking You.

Yours faithfully

ADAMA

Principa D.K.A.S.C. College. Ichalkaranji.

Dattajirao Kadam Arts, Science & Commerce College, Ichalkaranji.

DEPARTMENT OF CHEMISTRY
Basic Analytical Techniques in Industry 2024-25

Date: 21/08/2024

Notice

All the students of B. Sc. III Chemistry are hereby informed that Short Term Course Basic Analytical Techniques in Industry is organized by department of chemistry. The course is compulsory to all the students. The fee of this course is 400/- per students. So register your names for the said course. Contact Mr. N. H. Waghmare sir with documents.

Documents Required

- 1) Admission Receipt of B. Sc. III Xerox copy.
- 2) College Identity Xerox copy.

Dr. D. A. Kumbhar

Department of Chemistry
Dattajirao Kadam Arts, Science
& Commerce College,

ICHALKARANJI.

Dissemination of Education for Knowledge, Science and Culture"

-Shikshan Maharshi Dr. Bapuji Salunkhe

Shri Swami Vivekanand Shikshan Sanstha's

Dattajirao Kadam Arts, Scienceand Commerce College Ichalkaranji DEPARTMENT OF CHEMISTRY

Basic Analytical Techniques in Industry 2024-25 Enrollment list

Sr. No.	Student Name	Class	Sign
1	Antin Basavraj Manjunath	B. Sc III	BIAA
2	Awale Suyash Bhavso	B. Sc III	509
3	Balari Abhishek Vyankatesh	B. Sc III	A.V. Ballasi'.
4	Bhosale Rohan Satish	B. Sc III	Book
5	Danane Paras Shital	B. Sc III	810.
6	Desai Khadija Jamir	B. Sc III	Poloan
7	Jangate Supriya Suresh	B. Sc III	Dangate.
8	Kamate Sanika Suresh	B. Sc III	- Damak
9	Kambale Poonam Kiran	B. Sc III	Panble.
10	Kamire Shreya Mahesh	B. Sc III	Sheerya-
11	Katankar Shahid Hazrat	B. Sc III	Shahidle.
12	KhotAakansha Joti	B. Sc III	Acamsher
13	Koli Sushant Pindu	B. Sc III	Konj
14	Kore Neha Manohar	B. Sc III	Kore
15	Kurane Anisha Rahul	B. Sc III	ARC
16	Latane Abhishek Sanjay	B. Sc III	Azutce
17	Malwade Ajay Ravikant	B. Sc III	Ahr.
18	Miraje Amruta Vishwanath	B. Sc III	Dimmite
19	Mirajkar Vijay Abasaheb	B. Sc III	VAMinyka.
20	Naik Samruddhi Mahesh	B. Sc III	VAMiryka. Araik- Palli T.S. Savant
21	Patil Suraj Shahaji	B. Sc III	Patt.
22	Patil Vinayak Rajkumar	B. Sc III	T.S. sawant



23	Patil Yash Anil	B. Sc III	Happ-
24	Patole Nikhil Yashwant	B. Sc III	70,4010
25	Pujari Samruddhi Maruti	B. Sc III	Juignos !
26	Sagare Sanmati Sunil	B. Sc III	Butt
27	Sawant Tejas Sanjay	B. Sc III	P
28	Shikhare Rajvardhan Eknath	B. Sc III	Some.
29	Shinde Sakshi Arvind	B. Sc III	Behinde
30	Shinge Komal Maruti	B. Sc III	Down C
31	Sutar Renuka Rajaram	B. Sc III	pple
32	Teli Akshata Balu	B. Sc III	1 Teli +
33	Nade Ankita Dhananjay	B. Sc III	Anleya
34	Nadaf Tasnim Shahajan	B. Sc III	stade .
35	Hawaldar Dhiraj Tanaji	B. Sc III	H.O.T
36	Koli Karan Sunil	B. Sc III	KKON 3
37	Shinde Arati Ananda	B. Sc III	Astindels.
38	Giri Deepak Prakash	B. Sc III	02
39	Khot Prathmesh Prakash	B. Sc III	
40	Heralage Prathmesh Balaso	B. Sc III	Children one
41	Danwade Mahmadiliyas Sameer	B. Sc III	Romand
42	Sutale Rajashree Mahadev	B. Sc III	R. m. Surle



Dr. D. A. Kumbhar

Department of Chemistry

Dattajirao Kadam Arts, Science

& Commerce College,
ICHALKARANJI.

Dattajirao Kadam Arts, Science & Commerce College, Ichalkaranji.

DEPARTMENT OF CHEMISTRY
Basic Analytical Techniques in Industry 2024-25

Notice

Date: 02/09/2024

All the students who confirmed their admissions to the certificate course entitled Basic Analytical Techniques in Industry are hereby informed that the theory lectures of this course will start from 05/09/2024 onwards. All students must attend lectures.

ICHALKARANJI

Dr. D. A. Kumbhar

Department of Chemistry,
Dattajirao Kadam Arts, Science
& Commerce College,
ICHALKARANJI.

Dattajirao Kadam Arts, Science & Commerce College, Ichalkaranji.

DEPARTMENT OF CHEMISTRY Basic Analytical Techniques in Industry 2024-25

Theory Workload Distribution

Sr.	Name of the faculty	Name of the topic
1	Dr. A. P. Patravale	Basic Concepts in Industrial Chemistry
2	Mr. R. P. Bharsat	Basic Concepts in muustriai Chemistry
3	Dr. S. V. Mulik	Introduction to Analytical Techniques
4	Mr. N. H. Waghmare	introduction to Analytical Techniques
5	Mr. S. V. More	Unit Operations
6	Mr. V. B. Shinde .	Onit Operations
7	Dr. D. J. Sutar	Laboratory Instrumentation
8	Dr. D. A. Kumbhar	Laboratory instrumentation
9	Dr. V. V. Gawade	Practicals
10	Miss. Priti Mane	Practicals

Dr. D. A. Kumbhar

HEAD, Department of Chemistry, Dattajirao Kadam Arts, Science

& Commerce College, ICHALKARANJI.

Dattajirao Kadam Arts, Science & Commerce College, Ichalkaranji.

DEPARTMENT OF CHEMISTRY

Basic Analytical Techniques in Industry 2024-25

Time-Table

Time ·	Thursday	Friday	Saturday	Time
2:30 pm to 3:30 pm	DAK/NHW	APP/SVM	Pr	ractical
3:30 pm to 4:30 pm	RPB/VBS	SVM/DJS	VVG/PVM	2:30 pm to 5:30

Sr.	Name of the faculty
1	Dr. D. A. Kumbhar
2	Dr. A. P. Patravale
3	Mr. R. P. Bharsat
4	Dr. S. V. Mulik
5	Mr. N. H. Waghmare
6	Mr. S. V. More
7	Mr. V. B. Shinde
8	Dr. D. J. Sutar
9	Dr. V. V. Gawade
10	Miss. P. V. Mane

ICHALKARANJI TO CHALKARANJI

Dr. D. A. Kumbhar

HEAD,

Department of Chemistry,

Dattajirao Kadam Arts, Science

& Commerce College,

ICHALKARANJI.

Dissemination of Education for Knowledge, Science and Culture"
-Shikshan Maharshi Dr. Bapuji Salunkhe

Shri Swami Vivekanand Shikshan Sanstha's

Dattajirao Kadam Arts, Science and Commerce College Ichalkaranji DEPARTMENT OF CHEMISTRY

Basic Analytical Techniques in Industry 2024-25

Theory Attendance Report

	Theory Attendance Report											
Sr. No.	Student Name	05/9/24	6)9/24	12/9/24	13/9/24	1419/24	1919/24	20/9/24	219/249	26/9/24	27/9/24	
1	Antin Basavraj Manjunath	RIA	BIAR	BNA	BIAA	RIA	BMA	BIA	RIA	RIVA	RIAA	
2	Awale Suyash Bhavso	Sp.	5/32	-SAS	SBL	SBL	SBY	802	884	836	834	
3	Balari Abhishek Vyankatesh	A.V. Ballon	A-V-Bellon's	A.V. Ballon	A. U. Bellos	A.V. Balloni.	A. V. Bello .)	A.V. Ballad	A.V. Ballon	A.V. Billosi	A-V-Bullani	
4	Bhosale Rohan Satish	BBrocke	Barock	Rusosek	PSBrowle	Broke	Bryode	Parlock	0346 Cale	Behode	DEMORIE	
5	Danane Paras Shital	82	84	800	80	812	SP	81	80	812.	Ab	
6	Desai Khadija Jamir	Prinsi	Prisde	Phloci	Podesai	Braka	(Soubail	Posekea	Edeson	(Bdo'a	Enlosi	
7	Jangate Supriya Suresh	Strongar	Agniget	A jangel	Franyah	TI J		-	- 11 1.	# angote		
8	Kamate Sanika Suresh	Stample	Spermak	Spanale	stamule.	pamak.	Samak	Stamale	tamak	Stanak	gamale	
9	Kambale Poonam Kiran	Rounble	Ranble	Ramble	Ramble	Pamble	Ramble	Ramble	Ramble	Ramble	Ramble	
10	Kamire Shreya Mahesh	guega.	Sheegu.	Shareya -	Sheeger	Sheep-	Shear!	Showyar	Heeya.		the state of the s	
11	Katankar Shahid Hazrat	Soligh.	Balot	8 olighe	Salak	gralight.	Shalight	Dorth			grapidy.	
12	Khot Aakansha Joti	Bras	0			Deing 201		Barons	Bendury	Bargner	Bourns	
13	Koli Sushant Pindu	Foli	Kel:	Kelli	46	Keli	Keli	Kali	Keli	Keeli	Keli	

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Dissemination of Education for Knowledge, Science and Culture"
-Shikshanmaharshi Dr. Bapuji Salunkhe

Shri Swami Vivekanand Shikshan Sanstha's

Dattajirao Kadam Arts, Science and Commerce College Ichalkaranji DEPARTMENT OF CHEMISTRY

Basic Analytical Techniques in Industry 2024-25

Practical Attendance Report

Sr. No.	Student Name	5/9/24	6/9/24		13/9/24	1419/24	15/9/24	2019/24	21/9/24	26/9/24	249/24
1	Antin Basavraj Manjunath	BILL	BUA	RIM	BAA	BIM	BA	BIA	BU	RVA	814
2	Awale Suyash Bhavso	Se	813	873	fab.	gns-	-SPD	gns	8121	3nd	Spo
3	Balari Abhishek Vyankatesh	A.V. Balkoi.	A.V. Bukpi.	A.V. Balkri	A.V. Balkni	A.V. Balkai	A.V. Balloni.	A.V. Ballani	A.V.Balbai	A.v. Ballon	A.V.Balkoi
4	Bhosale Rohan Satish	RSB_	RSB	PSR	P&B	PSR	P88	PSB.	RSB	R&B_	PSB.
5	Danane Paras Shital	8 ·	812.	860.	86.	810.	812.	812	800.	80	80.
6	Desai Khadija Jamir	Roberan	@Idescir	Paclesan	Radescil	(Eddesay	Padescie.	Rad Psali	(Bolesain	(Erdesain	Radesal
7	Jangate Supriya Suresh	Fongale.	A fongale	2 3 rigat	A Bangale	A gragale	Ronga	A gargete	4 Forgate	1300gale	Azangal
8	Kamate Sanika Suresh	3 ramede	Skamele	Skamate	8 ramale	8 Kamale	Stamate	Ska mala	Standk	Skamate	Stamate
9	Kambale Poonam Kiran	Paydate.	Romble.	Pampe	Rande	Pamble_	Rombt	Ramble	Pamble	Ramble	pamble.
10	Kamire Shreya Mahesh	Dreaga.	Sherye-	Shaya-	Stayes.	Sheep	Shagu	Shayer	Shages.	Sheyer	Sheeper.
11/	Katankar Shahid Hazrat	Shahidk	sahidk	Sahidk	Schidt	Sahid K	Schilk	Shahidk	Shahid k	Shahid K	Shuhida
12	Khot Aakansha Joti	Banshel	Anshal	Panghal	Barshel	Ranshal	Panahel	Dangha	Banshel	Banshel	Austral
13	Koli Sushant Pindu	feeli	Kolii	Foch	10019	Kola	Koll	Koly	foli	Folt	1001



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14	Kore Neha Manohar	Cool.	Kose.	Kost.	Kol-	Kas -	Kar	Kox.	Cool -	Korl -	(Core
15	Kurane Anisha Rahul	MS	1760	ALL	AB_	M	BL	1200	AD	AND	AM
16	Latane Abhishek Sanjay	Hale	Obb	Defe	Book	Abber	Plab	Aber	AFW	Ales	Abal
17	Malwade Ajay Ravikant	Ale	All	- ADUS	Bulle	- Del	811	pers	- Bh	Bly	Bly
18	Miraje Amruta Vishwanath	Amoure	Armouted	Prouder	Boouta	Armuta	Brownel	Pronte	Amuly	Aronetel	Arrowell
19	Mirajkar Vijay Abasaheb	(JAP)	(VAM)	SAM	(18m)	CAM	(VAM)	VAM	KHAN	pom	Nom
20	Naik Samruddhi Mahesh	\$Naik	Strik.	\$Naik	& Naik	Anaile.	A Naik	Strails.	Smik-	Ana'k	Shale-
21	Patil Suraj Shahaji	3.5P	S.S.P.	5.5.P.	S.S.P.	5.S.P	S.S.P.	SISIP	S. S.f.	S.S.P	5.S.P.
22	Patil Vinayak Rajkumar	B.	(R)	(2)	(2)	(B)	(2)	(B)	(13)	(P)	¥3)
23	Patil Yash Anil	Y. Patit	Y. Patil	- Trafi	Y. Patil	X. Patil	Y. Patil	J. Paril	Y. Partil	Y. Pedil	Y. pedil
24	Patole Nikhil Yashwant	MITOR	Habe	HEAR	Hatole	Hatol	Hator	Datale.	HATOR	Hators	Matole
25	Pujari Samruddhi Maruti	Stewar	Print.	& Rujari	\$ Bujas	- Deigo	Skyan	doisy	Spiasi	Legari	Dinsi
26	Sagare Sanmati Sunil	Buti	Buti	ati	Qut!	Buti	Buti	Ball	A. Hi	Blati	But!
27	Sawant Tejas Sanjay	T.S. Sourant	Tisserent	T.S.Servind	75 Sou ant	T.S.Sought	7.56award	T.S. Saucest	7,5, Sougast	T. S. Soucot	7.5.50cm
28	Shikhare Rajvardhan Eknath					Stikel	Sheee	Shkoel	Shikee	Jika-	Shore
29	Shinde Sakshi Arvind	Spirale	Whindle	Mohinde	Schinde	Ab	Mehinele	Ashinole	The state of the s	Ashinde	Ishinde
30	Shinge Komal Maruti	Bonalis		Honals (3000017	Domaly	Bomaly	Borral.	formal's	somal y	Domaly.
31	Sutar Renuka Rajaram	PHOO	elio	elli	PHO	ext :	PROO	ellio	plie	PP :	al on



32	Teli Akshata Balu	Betelle	Astelin	Asteli!	Anelis	Poleli+	Boteli	BITELOV	Azzuli	Rotelio +	Brei
33	Nade Ankita Dhananjay	Antik	Anzh	Amil	A 147	ANAY	Anthe	Antik	Ankir	Anjer	HAZI
34	Nadaf Tasnim Shahajan	pladot.	Bladet	Bladat	Blodot.		Sladob	Blook-	15 laulut	V	15/adat-
35	Hawaldar Dhiraj Tanaji	MA7	MOM	HDT.	H0.7	1007	1207	Moon	H.D.T	TOOP	MOT.
36	Koli Karan Sunil	Kali	Ykeli	*Koli	Koli	Knoli	Licoli	*koli	Kedi	Kroli.	Kroli
37	Shinde Arati Ananda	Blinde	Bhinde.	Blinds	Phinde.	Phinds.	Blinde	8 Winder	Shinde	Phinde	Phinde_
38	Giri Deepak Prakash	Res	Plan	Del	OGI	DE	Des	DE.	DE.	Des	Da
39	Khot Prathmesh Prakash	Brothamesh	Porothanes	Prothang	Prothanesh		0.00	prathonesh	Andhamesh	1	-prathones
40	Heralage Prathmesh Balaso	PEHBA	BEHABI	PEHB	RHBu.	Reth Bu.	PEHB.	Peth Bu.	RHB1	PEHB	R-HB.
41	Danwade Mahmadiliyas S.	Pis	DS.	30S	OBS	28	BB	DB	B	A	BB
42	Sutale Rajashree Mahadev	R.m. sutale	R.m. sutale	p.m.sulale	R.m. sudale,	R.M. scutale	R.M. sutale	R.M. sutale	Rmswale	R.Mswale,	p.m.sutale



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Dissemination of Education for Knowledge, Science and Culture"
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Shri Swami Vivekanand Shikshan Sanstha's

Dattajirao Kadam Arts, Science and Commerce College Ichalkaranji DEPARTMENT OF CHEMISTRY

Basic Analytical Techniques in Industry 2024-25

				Thing.	Attendance	Report					
Sr. No.	Student Name	28/9/24	4110/24	5/18/24	10/10/24	11/10/24	17/16/24	18/16/24	19/16/24	24/10/24	25/10/24
1	Antin Basavraj Manjunath	PAR	RIA	RIA	RIA	RIA	BIA	RIA	RIA	BIA	8114
2	Awale Suyash Bhavso	Sho	SP29	B9	239	862	SPS.	SAS	SBY	813/	SBL
3	Balari Abhishek Vyankatesh	A.V.Balbri	A-V-Bellow	V.Ballow"	A.N. Bollon	A.V. Balbi	A.V.Bellowi	A.V. Bellow	A.V. Ballad	A.V. Ballo	A.V. Relice
4	Bhosale Rohan Satish	Pathoscle	pashode	psemale	powele	proble	aposte	PSHIMBE	Parcele	psorode	Postpostp
5	Danane Paras Shital	8AP	822	\$	80	82	AB	80	82	820	812.
6	Desai Khadija Jamir	Alesau	Padesan	Fadesdi	Pad escu	Rodesch.	Filesan	Adesdi	Exclescin	(E) duscin	Adlese
7	Jangate Supriya Suresh	Targat	Banga	Azardal,	11	Asargal		Arangal	Arangol	Ab	Junga
8	Kamate Sanika Suresh	gamak-	Canade	Camale.	Pamale	Samole	(Samal	Samale.	domate.	damak	Scomat
9	Kambale Poonam Kiran	Rentle.	Runble.	Ramble	Ramble,	Ranble,	Phamble.	Rande	Ramble.	Ramble.	Rankle.
10	Kamire Shreya Mahesh	Aneresa.	sheeper.	Speaks.	Analys	Mere gr	meeys.	Messet.	Queceya-	Meery .	meeye
11	Katankar Shahid Hazrat	Baldix	Sorigh	Baligh	Shahid!	Braticht	Shalight	Statistic	Balight	Rabidte	Bralight
12	Khot Aakansha Joti	Dong net	(Pengh)	Banghe	Dangha		Bongna			0.0000	Ranshu
13	Koli Sushant Pindu	Keeli	Keli		Keli	Keelij	Kali	Cel:	Kali	toli	Feli



14	Kore Neha Manohar	Nece.	Ware.	Nool.	None.	Nool.	None.	None.	None.	Nool-	Nesse
15	Kurane Anisha Rahul	ARC	AD	MRS	ARC.	AR_	AR	AR	ar	AR	AL
16	Latane Abhishek Sanjay	Autre	Acetice	Anter	Deter	Deleter	Astote	Deletce	Deletzer	Delete	Dolet
17	Malwade Ajay Ravikant	Des	ALS.	pers	Also	Dis	AB	Dis	Dis	Bles	DI23
18	Miraje Amruta Vishwanath	Don-ta	Dmp	Don-Ja	Downs	. Dons	Evelly	Ab	Bonns	Le Mally,	Burne
19	Mirajkar Vijay Abasaheb	TAN	CAD	CAM	GAM	LANA	VAM	DAM	AM	DAM	CANO
20	Naik Samruddhi Mahesh	ANaik	ANOK	A Naile	Hank	ANdik	& Maile	# laik	ANIK	Mark	& Maile
21	Patil Suraj Shahaji .	Hosis.	afosts	statis	Bat. M	don't	Ab	ded)	Tetops	*Ret	Had D
22	Patil Vinayak Rajkumar	Q.	œ.	P	P	P	P	AB	P	(P)	(A)
23	Patil Yash Anil	Mashe	tashe	TOTHE	Teshe	Take	Tashp	Tashe	Jask	Tashe	- AB
24	Patole Nikhil Yashwant	DEHOE	TEFOR	- PEGOK	17040K	Tright	191018	Ab	> CITE	NRYOK	2 GADIE
25	Pujari Samruddhi Maruti	<u>Luius</u>	friend	Buign	Juners'	Swan !	Juian'	Juian'	sujen	Quian'	Supra!
26	Sagare Sanmati Sunil	Buti'	BUH	But	Brest	But	Quil'	BULL	BIH	gul!	Bluti
27	SawantTejas Sanjay	Iss.	227	TIS.	ASS.	(B)	Ts.	CISC	æS.	Cos	(FS)
28	Shikhare Rajvardhan E.	-an	Sur	-gu	- Ehrs	lus	en.	Coms	Sour	-sus	Som
29	Shinde Sakshi Arvind	Petitele		88 Wil	Shipel	Dila	. School	- Bhirl	Shinds	Shink	Stick
30	Shinge Komal Maruti	man roof	Bonot	Barro	Domalo	Domaf	Barrot	Good -	gond 1	Donal	Dansel
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33	Nade Ankita Dhananjay	Ankity	Antiba	Antita	Ankita	Ankita	46	Ankita	ankity	Ant: Hy	ANXST
34	Nadaf Tasnim Shahajan	Bladak	Dadot.	Bladet	Bladat.	Tstadat.	Bladay	Blodat.	Blody	Blackat	Bladat -
35	Hawaldar Dhiraj Tanaji	H.D.F	H.P.T	49.5	H.D.T	M.D.T	Ab	H.Q.T	H9.5	HQ.T	H.D.T
36	Koli Karan Sunil	aloui	1 Ken	4 Kall	4 Kell	164	LKOLL	1 Kell	A Kell	1 Kali	D KATE
37	Shinde Arati Ananda	Pshinde	· Ashinde	Ashinds.	Ashinde	Athinde	. Ashirak	Ashinda	pshind,	Astrinde	Ashinde.
38	Giri Deepak Prakash	OS.	DS	AS .	28	28	08	08	3	08-	3
39,	Khot Prathmesh Prakash	<u></u>	.0	9	9	9	0	9	R	R (
40	Heralage Prathmesh Balaso	Physica 85	CORMERION	y Tennelgi	PRHORUPA PA	Privalan	Cookedy	e properior	ponere	p min	msedge
41	Danwade Mahmadiliyas S.	Annade	Jamos	Ronnode	Donnode	Annode	Onwade	Ramode	Ponnade	Bonwade	Prode
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Dr. D. A. Kumbhar

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DEPARTMENT OF CHEMISTRY Basic Analytical Techniques in Industry 2024-25

Notice

Date: 23/12/2024

All the students of the course Basic Analytical Techniques in Industry are hereby informed that the theory examination for this course is scheduled as below. All the students must remain present for the theory examination at the scheduled time. There is no provision for Re-examination.

Date	Time	Paper	
26/12/2024	11:00 am to 12:30 pm	Paper-I	
20/12/2024	01:00 pm to 04:00pm	Paper-II	

Dr. D. A. Kumbhar

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Department of Chemistry, Dattajirao Kadam Arts, Science

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"ব্লান, বিব্লান প্লাণি সুন্তানকান যানাতী প্লিঞ্জাণ্যনান"

शिक्षणमहर्षि डा. बापूजी भाळुंखे

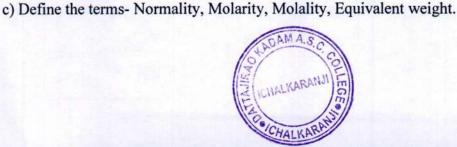
श्री क्यामी विवेकानंद शिक्षण संक्या, कोल्हापूरचे

Dattajirao Kadam Arts, Science & Commerce College, Ichalkaranji.

DEPARTMENT OF CHEMISTRY

Basic Analytical Techniques in Industry Paper-I Academic Year 2024-25

Time: 1.5 hour Marks: 30 Date: Q.1. Select the most correct alternative from the following and rewrite the sentence. 10 Marks i) What is a common application of a conductometer in a laboratory setting? a) Measuring the colour of a solution b) Determining the pH of a solution c) Analysing the electrical conductivity of a solution d) Observing the optical rotation of a substance. ii) The number of......of solute present in one dm3 of solution is known as normality d) Gram equivalent a) Moles b) Gram mole c) Grams iii) Equivalent weight is defined as: a) The weight of one mole of a substance b) The weight of one equivalent of a substance c) The weight of one litre of a substance d) The weight of one gram of a substance iv) In adsorption chromatography, separation is based on: a) Differences in solubility b) Differences in boiling points c) Differences in adsorption to a solid surface d) Differences in melting points v) Distillation flask in also called as..... a) Reboiler or pot b) Condenser c) Receiver d) Any of these vi) Which of the following is an example of a unit operation in a chemical process? a) Distillation b) Polymerization c) Catalysis d) Filtration vii) Potentiometer does not measure..... a) emf of the two cell b) the unknown temp. c) Internal Resistance d) compare the emf of two cell viii) The unit of conductance is..... b) Tesla c) Siemen d) Gauss a) Ohm ix) Which of the following is the formula for pH Calculation b) -log₁₀ [H⁺] c) log₂ [H⁺] d) $-\log_2[H^+]$ a) $\log_{10} [H^{+}]$ x) What is a common application of a conductometer in a laboratory setting? a) Measuring the color of a solution b) Determining the pH of a solution c) Analysing the electrical conductivity of a solution d) Observing the optical rotation of a substance. Q.2. Attempt any one of the following. 10 Marks a) Define the term "unit operation" in the context of industrial chemistry. b) Write a precise note on Lambert-Beer's law. Q.3. Attempt any two of the following. 10 Marks a) Differentiate between simple distillation and fractional distillation.



b) Write a short note on classification of chromatography.

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Dattajirao Kadam Arts, Science and Commerce College Ichalkaranji DEPARTMENT OF CHEMISTRY

Basic Analytical Techniques in Industry 2024-25 Theory Paper-I Examination Attendance Report

Date: 26/12/2024 Class: B. Sc. III Chemistry Time: 11:00 am to 12:30 pm

	Date: 26/12/2024 Cla	iss: B. Sc. III Cr	ichnsuy	Time: 11:00 am to 12:30 pm			
Sr. No.	Student Name	Sign	Sr. No.	Student Name	Sign		
1	Antin Basavraj Manjunath	BIA	22	Patil Vinayak Rajkumar	(RE		
2	Awale Suyash Bhavso	SBS	23	Patil Yash Anil	Y. Patil		
3	Balari Abhishek Vyankatesh	A.V. Ballori.	24	Patole Nikhil Yashwant	Matie		
4	Bhosale Rohan Satish	P&B	25	Pujari Samruddhi Maruti	deviari		
5	Danane Paras Shital	810.	26	Sagare Sanmati Sunil	Buti		
6	Desai Khadija Jamir	Facloscin.	27	Sawant Tejas Sanjay	T. S. Saucent		
7	Jangate Supriya Suresh	# Brigates	28	Shikhare Rajvardhan E.	SHAROSE		
8	Kamate Sanika Suresh	Skamate	29	Shinde Sakshi Arvind	Ashinele		
9	Kambale Poonam Kiran	Romble.	30	Shinge Komal Maruti	Bonal S		
10	Kamire Shreya Mahesh	greya.	31	Sutar Renuka Rajaram	PPIO		
11	Katankar Shahid Hazrat	Shahlde	32	Teli Akshata Balu	Rotell P		
12	Khot Aakansha Joti	Agriphet	_ 33	Nade Ankita Dhananjay	7-41×140		
13	Koli Sushant Pindu	Xevi	34	Nadaf Tasnim Shahajan	Bladot.		
14	Kore Neha Manohar	None.	35	Hawaldar Dhiraj Tanaji	H-O-T		
15	Kurane Anisha Rahul	AR.	36	Koli Karan Sunil	ellow.		
16	Latane Abhishek Sanjay	Alash	37	Shinde Arati Ananda	Phinde-		
17	Malwade Ajay Ravikant	Ale	38	Giri Deepak Prakash	GD.		
18	Miraje Amruta Vishwanath	Prouter	39	Khot Prathmesh Prakash	prathamest		
19	Mirajkar Vijay Abasaheb	March	40	Heralage Prathmesh B.	PEHDBO.		
20	Naik Samruddhi Mahesh	Anaile.	41	Danwade Mahmadiliyas S.	28		
21	Patil Suraj Shahaji	5.5.0	42	Sutale Rajashree Mahadev	P.m. sutare:		



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"ক্লান, বিক্লান প্লাণি স্থান্থকান যানাঠী খ্লিষাণ্যনান" খ্লিষাণান্তবি হাঁ জাতুনী নালুনী

श्री क्यामी विवेकानंद शिक्षण संक्था, कोल्हापूरचे

Dattajirao Kadam Arts, Science & Commerce College, Ichalkaranji.

DEPARTMENT OF CHEMISTRY

Basic Analytical Techniques in Industry Paper-II

Practical Examination 2024-25

Date: Time: 3 hour

Marks: 20

Q.1. Perform any two experiment.

20 Marks

- 1) To determine the normality of strong acid by conductometric titration.
- 2) To determine the amount of nitrogen from given fertilizer sample.
- 3) Estimation the amount of Aspirin from given tablet.



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Basic Analytical Techniques in Industry 2024-25 Practical Paper-II Examination Attendance Report

Date: 26/12/2024 Class: B. Sc. III Chemistry Time: 01:00 am to 04:00 pm

Sr. No.	Student Name	Sign	Sr. No.	Student Name	Sign
1	Antin Basavraj Manjunath	BUA	22	Patil Vinayak Rajkumar	(R)
2	Awale Suyash Bhavso	SBR	23	Patil Yash Anil	1 Padil
3	Balari Abhishek Vyankatesh	A.V. Ballani	24	Patole Nikhil Yashwant	Natole
4	Bhosale Rohan Satish	RSB	25	Pujari Samruddhi Maruti	Sejasi'
5	Danane Paras Shital	80.	26	Sagare Sanmati Sunil	Bluti
6	Desai Khadija Jamir	& Joseph .	27	Sawant Tejas Sanjay	T.S. Sacard
7	Jangate Supriya Suresh	4 Torque	28	Shikhare Rajvardhan E.	Shihm.
8	Kamate Sanika Suresh	Bramate	29	Shinde Sakshi Arvind	Ashinale
9	Kambale Poonam Kiran	Pamble.	30	Shinge Komal Maruti	Jonalis
10	Kamire Shreya Mahesh	Asseyer	31	Sutar Renuka Rajaram	ت
11	Katankar Shahid Hazrat	Shahidk	32	Teli Akshata Balu	Betell +
12	Khot Aakansha Joti	Reinshel	33	Nade Ankita Dhananjay	Inkite
13	Koli Sushant Pindu	KoM	34	Nadaf Tasnim Shahajan	Sladay.
14	Kore Neha Manohar	NOR.	35	Hawaldar Dhiraj Tanaji	H.O. T
15	Kurane Anisha Rahul	183_	36	Koli Karan Sunil	XKa:
16	Latane Abhishek Sanjay	Aladani	37	Shinde Arati Ananda	Bhinde.
17	Malwade Ajay Ravikant	Acul	38	Giri Deepak Prakash	OB
18	Miraje Amruta Vishwanath	Ammite	39	Khot Prathmesh Prakash	Prothamesh
19	Mirajkar Vijay Abasaheb	NAR	40	Heralage Prathmesh B.	PEHBA
20	Naik Samruddhi Mahesh	ANaik.	41	Danwade Mahmadiliyas S.	AR.
21	Patil Suraj Shahaji	S.S.R	42	Sutale Rajashree Mahadev	Rm. Butal

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Dattajirao Kadam Arts, Science and Commerce College Ichalkaranji DEPARTMENT OF CHEMISTRY

Basic Analytical Techniques in Industry 2024-25

Mark list

Sr. No.	Student Name	Paper-I	Paper-II	Total	Grade
1	Antin Basavraj Manjunath	22	15	37	A ⁺
2	Awale Suyash Bhavso	20	17	37	A ⁺
3	Balari Abhishek Vyankatesh	23	14	37	A ⁺
4	Bhosale Rohan Satish	19	13	32	A
5	Danane Paras Shital	15	12	27	B ⁺
6	Desai Khadija Jamir .	17	10	27	B ⁺
7	Jangate Supriya Suresh .	20	17	37	A ⁺
8	Kamate Sanika Suresh	24	15	39	A ⁺
9	Kambale Poonam Kiran	26	17	43	0
10	10 Kamire Shreya Mahesh		17	36	A ⁺
11	Katankar Shahid Hazrat	20	17	37	A ⁺
12	Khot Aakansha Joti	23	19	42	0
13	Koli Sushant Pindu	22	16	38	A ⁺
14	Kore Neha Manohar	22	14	36	A ⁺
15	Kurane Anisha Rahul	- 27	15	42	0
16	Latane Abhishek Sanjay	24	15	39	A ⁺
17	Malwade Ajay Ravikant	26	16	42	0
18	Miraje Amruta Vishwanath	19	14	33	A
19	Mirajkar Vijay Abasaheb	16	13	29	B ⁺
20	Naik Samruddhi Mahesh	16	13	29	B ⁺
21	Patil Suraj Shahaji	25	19	44	0
22	Patil Vinayak Rajkumar	26	17	43	0
23	Patil Yash Anil	26	17	43	0
24	Patole Nikhil Yashwant	19	15	34	A
25	Pujari Samruddhi Maruti	24	17	41	0



26	Sagare Sanmati Sunil	21	16	37	A ⁺
27	Sawant Tejas Sanjay	20	14	34	A
28	Shikhare Rajvardhan Eknath	20	16	36	A ⁺
29	Shinde Sakshi Arvind	24	17	41	0
30	Shinge Komal Maruti	26	17	41	0
31	Sutar Renuka Rajaram	- 17	14	31	A
32	Teli Akshata Balu	15	12	27	B ⁺
33	Nade Ankita Dhananjay	15	13	28	B ⁺
34	Nadaf Tasnim Shahajan	23	17	40	A ⁺
35	Hawaldar Dhiraj Tanaji	20	16	36	A ⁺
36	Koli Karan Sunil	20	16	36	A ⁺
37	Shinde Arati Ananda	21	14	35	A
38	Giri Deepak Prakash	22	15	37	A ⁺
39	Khot Prathmesh Prakash	23	17	40	A ⁺
40	Heralage Prathmesh Balaso	21	16	37	A ⁺
41	Danwade Mahmadiliyas Sameer	25	19	44	0
42	Sutale Rajashree Mahadev	24	17	41	0

Absent: 00 Total: 42 Present: 42.

Mark range	Grade
41 and above	0
36 to 40	A ⁺
31 to 35	A
26 to 30	B ⁺
21 to 25	В

Dr. D. A. Kumbhar

HEAD,
Department of Chemistry, Dattajirao Kadam Arts, Science & Commerce College, ICHALKARANJI. "Dissemination of Education for Knowledge, Science and Culture"

-Shikshanmaharshi Dr. Bapuji Salunkhe

Shri Swami Vivekanand Shikshan Sanstha, Kolhapur's

Dattajirao Kadam Arts, Science & Commerce College, Ichalkaranji.

(Affiliated to ShivajiUniversity, Kolhapur)



CertificateCourseinBasic Analytical Techniques in Industry2024-25

Shri/Smt: Balari Abhishek Vyankatesh

Exam date: 26th December 2024

SeatNo.	PaperI	PaperII	Grand Total	Percentage	Grade	Remark	
3	Theory	Practical	Grand Total	Toronningo			
Maximum Marks	30	20	50				
Minimum for Passing	11	07	18	74.00 %	A^{+}	Pass	
Marks Obtained	23	14	37				

Date: -27th December 2024

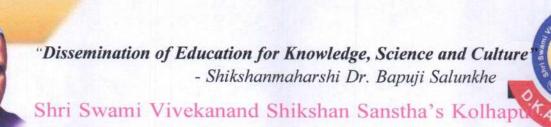
Mr. N. H. Waghmare

Coordinator

Dr. D. A. KumbharHead, Department of Chemistry

ICHALKARANJI ICHALKARANJI ICHALKARANJI

Dr. S. M. Maner Principal, D.K.A.S.C. College,



Dattajirao Kadam Arts, Science and Commerce College, Ichalkaranji.

(Affiliated to Shivaji University, Kolhapur)

Certificate

This is to certify that Mr. Balari Abhishek Vyankatesh has attended the certificate course in "Basic Analytical Techniques in Industry" from Aug 2024 to Dec 2024 and completed the course Atisfactorily in A⁺ grade.

Date: 27th Dec 2024

Mr. N. H. Waghmare Coordinator

Dr. D. A. Kumbhar Head, Department of Chemistry Dr. S. M. Maner
Principal,
D.K.A.S.C. College.
Ichalkaranii