

“ज्ञान, विज्ञान आणि सुसंस्कार यासाठी शिक्षणप्रसार”

शिक्षणमहर्षि डॉ. आपूजी भाळुंबे

SHRI SWAMI VIVEKANAND SHIKSHAN SANSTHA'S, KOLHAPUR

**Dattajirao Kadam Arts, Science & Commerce College,
Ichalkaranji.**

Academic year 2023-24

DEPARTMENT OF CHEMISTRY

Short Term Course

Basic Analytical Techniques in Industry

Duration 4th September 2023 to 28th December 2023



Date: 14-08-2023

To,
The Principal,
Dattajirao Kadam Arts, Science and Commerce College,
Ichalkaranji.

Subject: Seeking Permission to conduct three months '**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**' Certificate course under Department of Chemistry, DKASC College Ichalkaranji, in academic year 2023-24.

So hereby we are requesting you to permit us to conduct the said course in the academic year 2023-24.

Thanking You,

Yours Sincerely,


(Dr. A. A. Ghare)



3
Permission
granted
14.08.2023

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

(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 Shikshanmaharshi Dr. Bapuji Salunkhe D.Lit.	President Hon. Chandrakant Dada Patil Minister, Higher and Technical Education, Gov.of.Maharashtra	Chairman Hon. Prin. Abhaykumar Salunkhe M.A.	Secretary Hon. Prin. Mrs. Shubhangi Gawade M.Sc.,B.Ed.	Principal Dr. Anil Patil M.Sc., Ph.D.
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Outward No. : DKASC / 2023-24

Date: 17/08/2023

To,
Dr. S. D. Shirke
Head, Vivekanand College, Kolhapur

Subject: Invitation to become member of 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 career-oriented 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,

Dr. A. A. Ghare



Yours faithfully,

Dr. Anil Patil

Dattajirao Kadam Arts, Science and Commerce College, Ichalkaranji.



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Founder

Shikshanmaharshi Dr. Bapuji Salunkhe
D.Lit.

President

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

Chairman

Hon. Prin. Abhaykumar Salunkhe
M.A.

Secretary

Hon. Prin. Mrs. Shubhangi Gawade
M.Sc., B.Ed.

Principal

Dr. Anil Patil
M.Sc., Ph.D.

Outward No. : DKASC / २/मई/२०२३-२४

Date: 17/08/2023

To,

Dr. A. S. Tapase

Vivekanand College, Kolhapur

Subject: Invitation to become member of Board of Studies.

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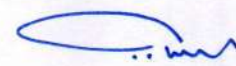
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Dr. A. A. Ghare



Yours faithfully,


Dr. Anil Patil

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Founder

Shikshanmaharshi Dr. Bapuji Salunkhe
D.Lit.

President

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

Chairman

Hon. Prin. Abhaykumar Salunkhe
M.A.

Secretary

Hon. Prin. Mrs. Shubhangi Gawade
M.Sc.,B.Ed.

Principal

Dr. Anil Patil
M.Sc., Ph.D.

Outward No. : DKASC / समदा/ 2023-24

Date: 14/08/2023

To,

Dr. A. S. Tapase

Assistant Professor,

Vivekanand College, Kolhapur

Subject: Invitation to attend a meeting for the Board of Studies....

Respected Madam,

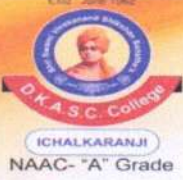
On behalf of D. K. A. S. C College, Ichalkaranji, I am Pleased to invite you to attend and discuss the syllabus for "Short Term Course - Basic Analytical Techniques in Industry" STC proposed to be run by the Department of Chemistry of this college. The meeting is arranged on Monday, 21st August, 2023 at 8.30 am through online mode using Google meet platform. Your favourable response in this regard will be highly appreciated.

Thanking you,



Yours Sincerely,

Dr. A. N. Patil



"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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Outward No. : DKASC / २०२३ / २५

Date: 14/08/2023

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

Subject: Invitation to attend a meeting for the Board of Studies....

Respected Madam,

On behalf of D. K. A. S. C College, Ichalkaranji, I am Pleased to invite you to attend and discuss the syllabus for **"Short Term Course - Basic Analytical Techniques in Industry"** STC proposed to be run by the Department of Chemistry of this college. The meeting is arranged on Monday, 21st August, 2023 at 8.30 am through online mode using Google meet platform. Your favourable response in this regard will be highly appreciated.

Thanking you,



Yours Sincerely,

Dr. A. N. Patil

**Dattajirao Kadam Arts, Science & Commerce College,
Ichalkaranji.**

Department of Chemistry

Board of Studies

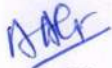
for

Short Term Course on

Basic Analytical Techniques in Industry

2023-2024

Sr. No	Name of the Member	Address	Address
1	Principal Dr. A. N. Patil	Chairman	Principal, Dattajirao Kadam Arts, Science & Commerce College, Ichalkaranji
2	Dr. A. A. Ghare	Member	Head, Department of Chemistry, Dattajirao Kadam Arts, Science & Commerce College, Ichalkaranji
3	Dr. S. D. Shirke	Member	Head, Department of Chemistry, Vivekanand College, Kolhapur
4	Dr. D. A. Kumbhar	Co-ordinator	Assistant Professor, Department of Chemistry, Dattajirao Kadam Arts, Science & Commerce College, Ichalkaranji
5	Dr. A. S. Tapase	Member	Assistant Professor, Department of Chemistry, Vivekanand College, Kolhapur


Dr. A. A. Ghare
HEAD,
Department of Chemistry,
Dattajirao Kadam Arts, Science
& Commerce College,
ICHALKARANJI.




Dr. A. N. Patil
Principal,
D.K.A.S.C. College,
Ichalkaranji.

“ज्ञान, विज्ञान आणि सुसंस्कार यासाठी शिक्षणप्रसार”

शि.म.डॉ.आपूजी बाळुखे

श्री दत्ताजी विठेकानंद शिक्षण संस्था, कोल्हापूरचे

**Dattajirao Kadam Arts, Science & Commerce College,
Ichalkaranji.**

PG Department of Chemistry

Date: 17/08/2023

Notice

All the members of the Board of Studies of (STC) **Basic Analytical Techniques in Industry** course (Three month) of Dattajirao Kadam Arts, Commerce and Science college, Ichalkaranji are hereby informed that the first meeting of the B.O.S. is scheduled on Monday, 21st August, 2023 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)

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


(Dr. A. A. Ghare)

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


(Dr. A. N. Patil)

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 was held on 21-08-2023 at 08:30 AM in on line mode.

The following members were present

Sr. No.	Name of the member	Nomination
1	Principal, Dr. A. N. Patil	Chairman
2	Dr. A. A. Ghare	Member
3	Dr. S. D. Shirke	Member
4	Dr. D. A. Kumbhar	Co-ordinator
5	Dr. A. S. Tapase	Member

Leave of absence

1. Leave of absence was granted to the Mr. Mayur Barge, (Industrial Expert) by the Chairman Board of Studies.

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

Item No. 1 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 to add Unit operation unit in syllabus. Also, Dr. A. A. Ghare advised to add Laboratory instrumentations unit in STC 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 9:45AM with a vote of thanks by **Dr. D. A. Kumbhar** 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)

Co-ordinator

Coordinator,
Basic Analytical Techniques
Department of Chemistry,
Dattajirao Kadam Arts, Science
& Commerce College,
ICHALKARANJI.
in Industry



(Dr. A. A. Ghare)

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



(Dr. A. N. Patil)

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



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शिक्षणमहर्षि डॉ. आपूजी भाळुंबे

SHRI SWAMI VIVEKANAND SHIKSHAN SANSTHA'S, KOLHAPUR

Dattajirao Kadam Arts, Science & Commerce College,

Ichalkaranji.

DEPARTMENT OF CHEMISTRY

Academic year 2023-24

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, Molality, 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 agglomerators iii) Separation -Magnetic separation method and Froth floatation method

Unit IV Laboratory Instrumentations. (05)

Introduction, construction and working, Applications - Conductometer, Colorimeter and spectrophotometer, P^H 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 conductometric 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.




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

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SHRI SWAMI VIVEKANAND SHIKSHAN SANSTHA'S, KOLHAPUR

**Dattajirao Kadam Arts, Science & Commerce College,
Ichalkaranji.**

Academic year 2023-24

DEPARTMENT OF CHEMISTRY

(Basic Analytical Techniques in Industry)

Date: 21/08/2023

Notice

All the students of B.Sc.II are hereby informed that Carrier Oriented Course 'Basic Analytical Techniques in Industry' organised by department of chemistry. This course conducted during September 2023 to December 2023. The course is compulsory to all the students. To register for the said course, contact Mr. N.H. Waghmare sir.

Documents Required

- 1) 10th mark list and certificate Xerox
- 2) 12th mark list



AAG

Dr. A. A. Ghare

HEAD,

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

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विज्ञानप्रसार श्री. भागी आर्गुल

Shri Swami Vivekananda Shikshan Sanstha's, Kolhapur's

Dattajirao Kadam Arts, Science and Commerce College, Ichalkaranji

DEPARTMENT OF CHEMISTRY

Basic Analytical Techniques in Industry 2023-24

Enrolment List

Sr. No	Name of the Students	Sign	Sr. No	Name of the Students	Sign
1	Ambi Yashovi Suresh	(Signature)	25	Rahul Madhukar Alagunde	(Signature)
2	Patil Mansi Vidyanand	(Signature)	26	Bhushan Raju Amath	(Signature)
3	Adarshe Vaibhavi Rajendra	(Signature)	27	Summed Nitin Shintre	(Signature)
4	Chavan Rutuja Baban.	(Signature)	28	Kiran Rajaram Devmore	(Signature)
5	Naik Revati Santosh	(Signature)	29	Prathamesh Kiran Salunkhe	(Signature)
6	Tadakhe Radhika Sanjay	(Signature)	30	Abhisheers Maruti Sathe	(Signature)
7	Patil Anshu Baliram	(Signature)	31	Sourabh Sunil Jadhav	(Signature)
8	Bhatale Priyanka Dasharath	(Signature)	32	Viresh Bapuso Bhole	(Signature)
9	Shevale Atya Satish.	(Signature)	33	Aniket Sanjay Done	(Signature)
10	Nalawade Anuradha Dilip	(Signature)	34	Thanekar Rohan Suresh	(Signature)
11	Yashraj Subhash Chougule	(Signature)	35	Kamalkar Aditya Sudhakar	(Signature)
12	Akshay Prashant Gavate	(Signature)	36	Powar Deep Vinayak	(Signature)
13	Vishal Shashikant Patekar	(Signature)	37	Shende Sangram Shankar	(Signature)
14	Aniruddha Amanda Mudgal	(Signature)	38	Ghadage Sourabh Sunil	(Signature)
15	Saloni Ramesh Powar	(Signature)	39	Hulmani Prakash Bhoiraj	(Signature)
16	Shravani Samrat Kamat	(Signature)	40	Patil Sanika Subhash	(Signature)
17	Akshay Anil Mandapure	(Signature)	41	Patankar Dhanaya Dilip	(Signature)
18	Sarvesh Ramesh Mane	(Signature)	42	Malawade Aditya Gajanan	(Signature)
19	Nikhil Rajaram Patil	(Signature)	43	Patil Kiran Bhimgonda	(Signature)
20	Akshay Suresh Kumbhar	(Signature)	44	Magdum Pritesh Sujay	(Signature)
21	Rakesh Madhukar Kadam	(Signature)	45	Rege Vinayak Sambhaji	(Signature)
22	Arman Husen Nadaf	(Signature)	46	Sawant Samiksha Madhukar	(Signature)
23	Alisha Nuruddin Mulla	(Signature)	47	Kadakane Pratiksha Ravasahab	(Signature)
24	Javeriya Javed Rathan	(Signature)	48	Ballole Vishal Surendra	(Signature)

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



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

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SHRI SWAMI VIVEKANAND SHIKSHAN SANSTHA'S, KOLHAPUR

**Dattajirao Kadam Arts, Science & Commerce College,
Ichalkaranji.**

Basic analytical Techniques in Industry

**Department of Chemistry
Academic year 2023-24**

Notice

01/09/2023

All the students who confirmed their admissions to certificate course entitled 'Basic analytical Techniques in Industry' are hereby informed that, theory lectures of this course are going to start from date ~~3th September~~ 2023. All students must be attend lectures. Time table of theory lectures are given below.

Day	Time
Monday	10:00 to 11:00 am
Tuesday	10:00 to 11:00 am
Wednesday	10:00 to 11:00 am


Co-ordinator
Coordinator,
Department of Chemistry,
Dattajirao Kadam Arts, Science
& Commerce College,
ICHALKARANJI.




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

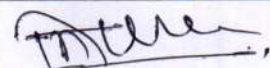
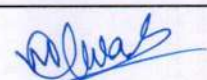
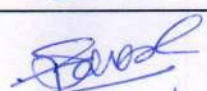
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शि.म.डॉ.आपूजी भाळूंखे,

श्री स्वामी विवेकानंद शिक्षण संस्था, कोल्हापूरचे

D.K.A.S.C. College, Ichalkaranji
Department of Chemistry

Basic Analytical Techniques in Industry (2023-24)

Theory work distribution

Sr.No.	Name of teacher	Topic name	Sign
1	Mr. D. J. Sutar	Basic concepts in Industrial chemistry	
2	Mr. N. H. Waghmare	Introduction to analytical Techniques	
3	Dr. V. V. Gavade	Unit Operations	
4	Mr. S. R. More	Laboratory Instrumentations	



Dr. D. A. Kumbhar
Co-ordinator,
Department of Chemistry,
Dattajirao Kadam Arts, Science
& Commerce College,
ICHALKARANJI.



Dr. A. A. Ghare
HEAD,
Department of Chemistry,
Dattajirao Kadam Arts, Science
& Commerce College,
ICHALKARANJI.

Full Name of the faculty

Sr. No.	Initial name of faculty	Full name of faculty
1	AAG	Dr. A. A. Ghare
2	DAK	Dr. D. A. Kumbhar
3	NHW	Mr. N.H. Waghmare
4	SBF	Miss. S.B. Fadtare
5	VBS	Mr. V.B. Shinde
6	VVG	Dr. V. V. Gavade
7	DJS	Mr. D.J. Sutar
8	SAM	Miss. S. A. Matiwadd
9	SSP	Miss. S. S. Pujari
10	SRM	Mr. S.R. More
11	PVM	Miss. P.V. Mane




Dr. A. A. Ghare
HEAD,
Department of Chemistry,
Dattajirao Kadam Arts, Science
& Commerce College,
ICHALKARANJI.

Name of Course: Basic Analytical Techniques in Industry (2023-2024)

Theory Attendance Sheet

Sr. No.	NAME OF STUDENTS	03/10/23	04/10/23	09/10/23	10/10/23	11/10/23	16/10/23	17/10/23	18/10/23	06/11/23	07/11/23	08/11/23
1	Ambi Yashovi Suresh	<u>Yambi</u>	<u>Yambi</u>	<u>Yambi</u>	<u>Yambi</u>	<u>Yambi</u>	<u>Yambi</u>	<u>Yambi</u>	<u>Yambi</u>	<u>Yambi</u>	<u>Yambi</u>	<u>Yambi</u>
2	Patil Mansi Vidyanand	<u>Patil</u>	<u>Patil</u>	<u>Patil</u>	<u>Patil</u>	<u>Patil</u>	<u>Patil</u>	<u>Patil</u>	<u>Patil</u>	<u>Patil</u>	<u>Patil</u>	<u>Patil</u>
3	Adarshe Vaibhavi Rajendra	<u>Pradarsh</u>	<u>Pradarsh</u>	<u>AB</u>	<u>Pradarsh</u>	<u>Pradarsh</u>	<u>Pradarsh</u>	<u>Pradarsh</u>	<u>AB</u>	<u>Pradarsh</u>	<u>Pradarsh</u>	<u>Pradarsh</u>
4	Chavan Rutuja Baban.	<u>CBS</u>	<u>CBS</u>	<u>CBS</u>	<u>CBS</u>	<u>CBS</u>	<u>CBS</u>	<u>CBS</u>	<u>CBS</u>	<u>CBS</u>	<u>CBS</u>	<u>CBS</u>
5	Naik Revali Santosh	<u>R.S.Naik</u>	<u>R.S.Naik</u>	<u>R.S.Naik</u>	<u>R.S.Naik</u>	<u>R.S.Naik</u>	<u>R.S.Naik</u>	<u>R.S.Naik</u>	<u>R.S.Naik</u>	<u>R.S.Naik</u>	<u>R.S.Naik</u>	<u>R.S.Naik</u>
6	Tadakhe Radhika Sanjay	<u>Tadake</u>	<u>AB</u>	<u>Tadake</u>	<u>Tadake</u>	<u>Tadake</u>	<u>Tadake</u>	<u>AB</u>	<u>Tadake</u>	<u>Tadake</u>	<u>Tadake</u>	<u>Tadake</u>
7	Patil Anshu Baliram	<u>Patil</u>	<u>Patil</u>	<u>AB</u>	<u>Patil</u>	<u>Patil</u>	<u>AB</u>	<u>Patil</u>	<u>Patil</u>	<u>Patil</u>	<u>AB</u>	<u>Patil</u>
8	Bhatale Priyanka Dasharath	<u>PDB</u>	<u>PDB</u>	<u>PDB</u>	<u>PDB</u>	<u>PDB</u>	<u>PDB</u>	<u>PDB</u>	<u>AB</u>	<u>PDB</u>	<u>PDB</u>	<u>PDB</u>
9	Shevale Atya Satish.	<u>A.s.sheval</u>	<u>A.s.sheval</u>	<u>A.s.sheval</u>	<u>A.s.sheval</u>	<u>A.s.sheval</u>	<u>A.s.sheval</u>	<u>A.s.sheval</u>	<u>A.s.sheval</u>	<u>A.s.sheval</u>	<u>A.s.sheval</u>	<u>A.s.sheval</u>
10	Nalawade Anuradha Dilip	<u>ADN</u>	<u>ADN</u>	<u>ADN</u>	<u>ADN</u>	<u>ADN</u>	<u>ADN</u>	<u>ADN</u>	<u>ADN</u>	<u>ADN</u>	<u>ADN</u>	<u>ADN</u>
11	Yashraj Subhash Chougule	<u>SSS</u>	<u>SSS</u>	<u>SSS</u>	<u>SSS</u>	<u>SSS</u>	<u>SSS</u>	<u>SSS</u>	<u>SSS</u>	<u>SSS</u>	<u>SSS</u>	<u>SSS</u>



12	Akshay Prashant Gavate	<u>Amreg</u>	<u>Ames</u>	<u>Amreg</u>	AB	<u>Amreg</u>	<u>Ames</u>	<u>Amreg</u>	AB	<u>Ames</u>	<u>Amreg</u>	AB	<u>Amreg</u>
13	Vishal Shashikant Patekar	<u>V.S.Patekar</u>	<u>V.S.Patekar</u>	AB	<u>V.S.Patekar</u>	<u>V.S.Patekar</u>	<u>V.S.Patekar</u>	<u>V.S.Patekar</u>	<u>V.S.Patekar</u>	AB	<u>V.S.Patekar</u>	<u>V.S.Patekar</u>	
14	Aniruddha Amanda Mudgal	<u>AAM</u>	<u>AAM</u>	<u>AAM</u>	<u>AAM</u>	<u>AAM</u>	AB	AB	<u>AAM</u>	<u>AAM</u>	<u>AAM</u>	<u>AAM</u>	<u>AAM</u>
15	Saloni Ramesh Powar	<u>Skanl</u>	<u>Skanl</u>	<u>Skanl</u>	<u>Skanl</u>	<u>Skanl</u>	<u>Skanl</u>	<u>Skanl</u>	<u>Skanl</u>	<u>Skanl</u>	<u>Skanl</u>	AB	<u>Skanl</u>
16	Shravani Samrat Kamat	<u>Skanl</u>	<u>Skanl</u>	<u>Skanl</u>	<u>Skanl</u>	<u>Skanl</u>	<u>Skanl</u>	AB	<u>Skanl</u>	<u>Skanl</u>	<u>Skanl</u>	<u>Skanl</u>	<u>Skanl</u>
17	Akshay Anil Mandapure	<u>Amreg</u>	<u>Ames</u>	<u>Amreg</u>	<u>Amreg</u>	<u>Ames</u>	<u>Amreg</u>	<u>Ames</u>	<u>Amreg</u>	<u>Ames</u>	<u>Amreg</u>	<u>Ames</u>	<u>Amreg</u>
18	Sarvesh Ramesh Mane	<u>Sm</u>	<u>Sm</u>	<u>Sm</u>	<u>Sm</u>	<u>Sm</u>	<u>Sm</u>	<u>Sm</u>	<u>Sm</u>	<u>Sm</u>	<u>Sm</u>	<u>Sm</u>	<u>Sm</u>
19	Nikhil Rajaram Patil	<u>NRS</u>	<u>NRS</u>	<u>NRS</u>	<u>NRS</u>	<u>NRS</u>	<u>NRS</u>	<u>NRS</u>	<u>NRS</u>	AB	<u>NRS</u>	<u>NRS</u>	AB
20	Akshay Suresh Kumbhar	<u>ASK</u>	<u>ASK</u>	<u>ASK</u>	<u>ASK</u>	<u>ASK</u>	<u>ASK</u>	AB	<u>ASK</u>	<u>ASK</u>	<u>ASK</u>	<u>ASK</u>	<u>ASK</u>
21	Rakesh Madhukar Kadam	<u>Zus</u>	<u>Zus</u>	<u>Zus</u>	<u>Zus</u>	<u>Zus</u>	<u>Zus</u>	<u>Zus</u>	<u>Zus</u>	<u>Zus</u>	AB	<u>Zus</u>	<u>Zus</u>
22	Arman Husen Nadaf	<u>A.H.Nadaf</u>	<u>A.H.Nadaf</u>	<u>A.H.Nadaf</u>	<u>A.H.Nadaf</u>	<u>A.H.Nadaf</u>	AB	<u>A.H.Nadaf</u>	<u>A.H.Nadaf</u>	<u>A.H.Nadaf</u>	<u>A.H.Nadaf</u>	<u>A.H.Nadaf</u>	<u>A.H.Nadaf</u>
23	Alisha Nuruddin Mulla	<u>Amreg</u>	<u>Ames</u>	<u>Amreg</u>	<u>Amreg</u>	<u>Ames</u>	<u>Amreg</u>	<u>Ames</u>	<u>Amreg</u>	<u>Ames</u>	<u>Amreg</u>	<u>Ames</u>	<u>Amreg</u>
24	Javeriya Javed Rathan	<u>J.J.Patan</u>	<u>J.J.Patan</u>	<u>J.J.Patan</u>	<u>J.J.Patan</u>	<u>J.J.Patan</u>	<u>J.J.Patan</u>	<u>J.J.Patan</u>	<u>J.J.Patan</u>	<u>J.J.Patan</u>	<u>J.J.Patan</u>	AB	AB
25	Rahul Madhukar Aigunde	<u>Pam</u>	<u>Pam</u>	<u>Pam</u>	<u>Pam</u>	<u>Pam</u>	<u>Pam</u>	<u>Pam</u>	<u>Pam</u>	AB	<u>Pam</u>	<u>Pam</u>	<u>Pam</u>



26	Bhushan Raju Amath	PSY	PSY	PSY	Ab	PSY	PSY	PSY	Ab	PSY	PSY	Ab	PSY
27	Summed Nitin Shintre	SNTRA	SNTRA	SNTRA	SNTRA	SNTRA	SNTRA	Ab	Ab	SNTRA	SNTRA	SNTRA	SNTRA
28	Kiran Rajaram Devmore	KDM	KDM	KDM	KDM	KDM	KDM	KDM	KDM	KDM	KDM	KDM	KDM
29	Prathamesh Kiran Salunkhe	POS	POS	POS	POS	POS	POS	POS	POS	POS	POS	POS	POS
30	Abhishers Maruti Sathe	AMSATHE	AMSATHE	AMSATHE	AMSATHE	AMSATHE	Ab	Ab	AMSATHE	AMSATHE	AMSATHE	AMSATHE	AMSATHE
31	Sourabh Sunil Jadhav	SJADHAV	SJADHAV	SJADHAV	SJADHAV	SJADHAV	SJADHAV	SJADHAV	SJADHAV	SJADHAV	SJADHAV	SJADHAV	SJADHAV
32	Viresh Bapuso Bhore	VBHORE	VBHORE	VBHORE	VBHORE	VBHORE	VBHORE	VBHORE	VBHORE	VBHORE	VBHORE	VBHORE	VBHORE
33	Aniket Sanjay Done	ASKE	ASKE	ASKE	ASKE	ASKE	ASKE	ASKE	ASKE	ASKE	ASKE	ASKE	ASKE
34	Thanekar Rohan Suresh	ROHAN	ROHAN	ROHAN	ROHAN	ROHAN	ROHAN	ROHAN	ROHAN	ROHAN	ROHAN	ROHAN	ROHAN
35	Kamalkar Aditya Sudhakar	ACSS	ACSS	ACSS	ACSS	ACSS	ACSS	Ab	ACSS	ACSS	Ab	Ab	Ab
36	Powar Deep Vinayak	DEEPS	DEEPS	DEEPS	DEEPS	DEEPS	DEEPS	DEEPS	DEEPS	DEEPS	DEEPS	DEEPS	DEEPS
37	Shende Sangram Shankar	CHUNDE	CHUNDE	CHUNDE	Ab	CHUNDE	Ab	Ab	CHUNDE	CHUNDE	CHUNDE	CHUNDE	CHUNDE
38	Ghadage Sourabh Sunil	YSUN	YSUN	YSUN	YSUN	YSUN	YSUN	YSUN	YSUN	YSUN	YSUN	YSUN	YSUN
39	Hulmani Prakash Bhoiraj	P.B.MULMI	P.B.MULMI	P.B.MULMI	P.B.MULMI	Ab	Ab	Ab	P.B.MULMI	P.B.MULMI	P.B.MULMI	P.B.MULMI	P.B.MULMI



40	Patil Sanika Subhash	<u>Sat</u>	<u>Sat</u>	<u>Sun</u>	<u>Sun</u>	<u>Sun</u>	AB	<u>Sat</u>	<u>Sun</u>	<u>Sun</u>	<u>Sun</u>	<u>Sun</u>	<u>Sat</u>
41	Patankar Dhanaya Dilip	<u>Patankar</u>	AB	<u>Patankar</u>	AB	<u>Patankar</u>	<u>Patankar</u>	AB	<u>Patankar</u>	<u>Patankar</u>	<u>Patankar</u>	<u>Patankar</u>	<u>Patankar</u>
42	Malawade Aditya Gajanan	<u>Aditya</u>	<u>Aditya</u>	<u>Aditya</u>	<u>Aditya</u>	<u>Aditya</u>	<u>Aditya</u>	<u>Aditya</u>	<u>Aditya</u>	AB	<u>Aditya</u>	<u>Aditya</u>	<u>Aditya</u>
43	Patil Kiran Bhimgonda	<u>K.B. Patil</u>	<u>K.B. Patil</u>	<u>K.B. Patil</u>	<u>K.B. Patil</u>	<u>K.B. Patil</u>	<u>K.B. Patil</u>	<u>K.B. Patil</u>	<u>K.B. Patil</u>	<u>K.B. Patil</u>	<u>K.B. Patil</u>	<u>K.B. Patil</u>	<u>K.B. Patil</u>
44	Magdum Pritesh Sujay	<u>Pritesh</u>	<u>Pritesh</u>	<u>Pritesh</u>	<u>Pritesh</u>	<u>Pritesh</u>	<u>Pritesh</u>	<u>Pritesh</u>	<u>Pritesh</u>	<u>Pritesh</u>	<u>Pritesh</u>	<u>Pritesh</u>	AB
45	Rege Vinayak Sambhaji	<u>V.S. Rege</u>	<u>V.S. Rege</u>	<u>V.S. Rege</u>	<u>V.S. Rege</u>	<u>V.S. Rege</u>	<u>V.S. Rege</u>	<u>V.S. Rege</u>	<u>V.S. Rege</u>	<u>V.S. Rege</u>	<u>V.S. Rege</u>	<u>V.S. Rege</u>	<u>V.S. Rege</u>
46	Sawant Samiksha Madhukar	<u>S. Sawant</u>	<u>S. Sawant</u>	<u>S. Sawant</u>	<u>S. Sawant</u>	<u>S. Sawant</u>	AB	<u>S. Sawant</u>	<u>S. Sawant</u>	<u>S. Sawant</u>	AB	<u>S. Sawant</u>	<u>S. Sawant</u>
47	Kadakane Pratiksha Ravasaheb	<u>P. Kadane</u>	<u>P. Kadane</u>	<u>P. Kadane</u>	<u>P. Kadane</u>	<u>P. Kadane</u>	<u>P. Kadane</u>	<u>P. Kadane</u>	<u>P. Kadane</u>	AB	<u>P. Kadane</u>	<u>P. Kadane</u>	<u>P. Kadane</u>
48	Ballole Vishal Surendra	<u>V. Ballole</u>	AB	<u>V. Ballole</u>	<u>V. Ballole</u>	<u>V. Ballole</u>	<u>V. Ballole</u>	<u>V. Ballole</u>	<u>V. Ballole</u>	AB	<u>V. Ballole</u>	<u>V. Ballole</u>	<u>V. Ballole</u>


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Name of Course: Basic Analytical Techniques in Industry (2023-2024)

Theory Attendance Sheet

Sr. No.	NAME OF STUDENTS	04/09/23	05/09/23	06/09/23	11/09/23	12/09/23	13/09/23	18/09/23	20/09/23	25/09/23	26/09/23	27/09/23
1	Ambi Yashovi Suresh	<u>Yambi</u>	<u>Yambi</u>	<u>Yambi</u>	<u>Yambi</u>	<u>Yambi</u>	<u>Yambi</u>	<u>Yambi</u>	<u>Yambi</u>	<u>Yambi</u>	<u>Yambi</u>	<u>Yambi</u>
2	Patil Mansi Vidyanand	<u>MPatil</u>	<u>MPatil</u>	<u>MPatil</u>	<u>MPatil</u>	<u>MPatil</u>	<u>MPatil</u>	<u>MPatil</u>	<u>MPatil</u>	<u>MPatil</u>	<u>MPatil</u>	<u>MPatil</u>
3	Adarshe Vaibhavi Rajendra	<u>Pradarshe</u>	<u>Pradarshe</u>	<u>Pradarshe</u>	<u>Pradarshe</u>	<u>Pradarshe</u>	<u>AB</u>	<u>Pradarshe</u>	<u>Pradarshe</u>	<u>Pradarshe</u>	<u>AB</u>	<u>Pradarshe</u>
4	Chavan Rutuja Baban.	<u>CRS</u>	<u>CRS</u>	<u>AB</u>	<u>CRS</u>	<u>CRS</u>	<u>CRS</u>	<u>CRS</u>	<u>CRS</u>	<u>AB</u>	<u>CRS</u>	<u>CRS</u>
5	Naik Revali Santosh	<u>RS.Naik</u>	<u>RS.Naik</u>	<u>RS.Naik</u>	<u>RS.Naik</u>	<u>RS.Naik</u>	<u>AB</u>	<u>RS.Naik</u>	<u>RS.Naik</u>	<u>RS.Naik</u>	<u>RS.Naik</u>	<u>RS.Naik</u>
6	Tadakhe Radhika Sanjay	<u>Tadaks</u>	<u>Tadaks</u>	<u>Tadaks</u>	<u>Tadaks</u>	<u>Tadaks</u>	<u>Tadaks</u>	<u>Tadaks</u>	<u>Tadaks</u>	<u>Tadaks</u>	<u>Tadaks</u>	<u>Tadaks</u>
7	Patil Anshu Baliram	<u>APatil</u>	<u>APatil</u>	<u>APatil</u>	<u>APatil</u>	<u>APatil</u>	<u>AB</u>	<u>APatil</u>	<u>APatil</u>	<u>AB</u>	<u>APatil</u>	<u>APatil</u>
8	Bhatale Priyanka Dasharath	<u>PDB</u>	<u>PDB</u>	<u>PDB</u>	<u>PDB</u>	<u>PDB</u>	<u>PDB</u>	<u>PDB</u>	<u>PDB</u>	<u>PDB</u>	<u>PDB</u>	<u>PDB</u>
9	Shevale Atya Satish.	<u>A.s.shevale</u>	<u>A.s.shevale</u>	<u>A.s.shevale</u>	<u>A.s.shevale</u>	<u>AB</u>	<u>A.s.shevale</u>	<u>A.s.shevale</u>	<u>AB</u>	<u>A.s.shevale</u>	<u>A.s.shevale</u>	<u>AB</u>
10	Nalawade Anuradha Dilip	<u>ADN</u>	<u>ADN</u>	<u>ADN</u>	<u>ADN</u>	<u>ADN</u>	<u>ADN</u>	<u>ADN</u>	<u>ADN</u>	<u>ADN</u>	<u>ADN</u>	<u>ADN</u>



11	Yashraj Subhash Chougule	SSS	AB	SSS	SSS	SSS	SSS	SSS	SSS	SSS	SSS	SSS
12	Akshay Prashant Gavate	Amey	Amey	Amey	Amey	AB	Amey	Amey	Amey	Amey	Amey	Amey
13	Vishal Shashikant Patekar	V.S.Patekar	V.S.Patekar	V.S.Patekar	AB	V.S.Patekar	V.S.Patekar	V.S.Patekar	V.S.Patekar	V.S.Patekar	V.S.Patekar	V.S.Patekar
14	Aniruddha Amanda Mudgal	AAM	AAM	AAM	AAM	AAM	AAM	AAM	AAM	AAM	AAM	AAM
15	Saloni Ramesh Powar	Spaw	Spaw	Spaw	Spaw	Spaw	Spaw	Spaw	Spaw	Spaw	Spaw	Spaw
16	Shravani Samrat Kamat	Skam	Skam	Skam	Skam	Skam	Skam	Skam	Skam	Skam	Skam	Skam
17	Akshay Anil Mandapure	Amandu	Amandu	Amandu	Amandu	Amandu	AB	Amandu	Amandu	Amandu	AB	AB
18	Sarvesh Ramesh Mane	Sam	Sam	AB	Sam	Sam	AB	Sam	Sam	Sam	Sam	Sam
19	Nikhil Rajaram Patill	NRP	NRP	NRP	NRP	NRP	NRP	NRP	NRP	AB	AB	NRP
20	Akshay Suresh Kumbhar	ASK	ASK	ASK	ASK	AB	ASK	ASK	ASK	ASK	ASK	ASK
21	Rakesh Madhukar Kadam	Zuk	Zuk	Zuk	Zuk	Zuk	Zuk	Zuk	Zuk	AB	Zuk	Zuk
22	Arman Husen Nadaf	AHnad	AHnad	AHnad	AHnad	AHnad	AHnad	AHnad	AB	AHnad	AHnad	AHnad
23	Alisha Nuruddin Mulla	DMulla	DMulla	AB	DMulla	DMulla	DMulla	DMulla	AB	DMulla	DMulla	AB



	Alggunde											
26	Bhushan Raju Amath	PSY	PSY	PSY	PSY	PSY	PSY	PSY	PSY	PSY	PSY	PSY
27	Summed Nitin Shintre	Smtre	Smtre	AB	Smtre	Smtre	Smtre	Smtre	AB	Smtre	Smtre	Smtre
28	Kiran Rajaram Devmore	KPM	KPM	KPM	KPM	KPM	KPM	KPM	KPM	KPM	KPM	KPM
29	Prathamesh Kiran Salunkhe	PS	PS	PS	PS	PS	PS	PS	PS	PS	PS	PS
30	Abhishers Maruti Sathe	AmSathe	AmSathe	AmSathe	AmSathe	AmSathe	AmSathe	AB	AmSathe	AmSathe	AB	AmSathe
31	Sourabh Sunil Jadhav	Sjadav	Sjadav	Sjadav	Sjadav	Sjadav	Sjadav	Sjadav	Sjadav	Sjadav	Sjadav	Sjadav
32	Viresh Bapuso Bhore	VBBhore	VBBhore	VBBhore	VBBhore	VBBhore	VBBhore	VBBhore	VBBhore	VBBhore	VBBhore	VBBhore
33	Aniket Sanjay Done	ADone	ADone	ADone	AB	ADone	ADone	ADone	AB	ADone	ADone	AB
34	Thanekar Rohan Suresh	Kohar	Kohar	Kohar	Kohar	Kohar	Kohar	Kohar	Kohar	Kohar	Kohar	Kohar
35	Kamalkar Aditya Sudhakar	ACSS	ACSS	ACSS	ACSS	ACSS	ACSS	ACSS	ACSS	ACSS	ACSS	ACSS
36	Powar Deep Vinayak	Deeps	Deeps	AB	AB	Deeps	AB	Deeps	Deeps	Deeps	Deeps	Deeps
37	Shende Sangram Shankar	Shende	Shende	Shende	Shende	Shende	Shende	Shende	Shende	AB	AB	Shende
38	Ghadage Sourabh Sunil	egun	egun	AB	AB	egun	egun	egun	egun	egun	egun	egun
39	Hulmani Prakash	P.B.Hulmani	P.B.Hulmani	P.B.Hulmani	P.B.Hulmani	P.B.Hulmani	P.B.Hulmani	P.B.Hulmani	AB	AB	P.B.Hulmani	P.B.Hulmani



	Bhojraj											
40	Patil Sanika Subhash	Sanika	Sanika	Sanika	Sanika	Sanika	Sanika	Sanika	Sanika	Sanika	Sanika	Sanika
41	Patankar Dhanaya Dilip	Patankar	Patankar	Patankar	Patankar	Patankar	Patankar	Patankar	Patankar	Patankar	Patankar	Patankar
42	Malawade Aditya Gajanan	Aditya	Aditya	Aditya	Aditya	Aditya	AB	Aditya	Aditya	Aditya	Aditya	Aditya
43	Patil Kiran Bhimgonda	Kiran	Kiran	Kiran	Kiran	Kiran	Kiran	Kiran	AB	Kiran	Kiran	Kiran
44	Magdum Pritesh Sujay	Pritesh	Pritesh	Pritesh	Pritesh	Pritesh	Pritesh	Pritesh	Pritesh	Pritesh	Pritesh	AB
45	Rege Vinayak Sambhaji	Vinayak	Vinayak	Vinayak	AB	Vinayak	Vinayak	Vinayak	AB	Vinayak	Vinayak	Vinayak
46	Sawant Samiksha Madhukar	Samiksha	Samiksha	Samiksha	Samiksha	Samiksha	Samiksha	Samiksha	Samiksha	Samiksha	Samiksha	AB
47	Kadakane Pratiksha Ravasaheb	Pratiksha	Pratiksha	Pratiksha	Pratiksha	Pratiksha	Pratiksha	Pratiksha	Pratiksha	Pratiksha	Pratiksha	AB
48	Ballole Vishal Surendra	Vishal	Vishal	Vishal	Vishal	Vishal	AB	Vishal	Vishal	Vishal	Vishal	Vishal



(Dr. D. A. Kumbhar)

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“ज्ञान, विज्ञान आणि सुवर्णकाय यासाठी शिक्षणप्रसार”
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SHRI SWAMI VIVEKANAND SHIKSHAN SANSTHA'S, KOLHAPUR
Dattajirao Kadam Arts, Science & Commerce College,
Ichalkaranji.

Academic year 2023-24

DEPARTMENT OF CHEMISTRY

Basic analytical Techniques in Industry

Date: 24/11/2023

Notice

All the students admitted to certificate course entitled '**Basic analytical Techniques in Industry**' are hereby informed that, practical of this course will be conducted **from 28/11/2023** in Chemistry laboratory-1. The practical schedule for the same is given annexure-1. All the students should remain present for the same.


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Annexure -1
DEPARTMENT OF CHEMISTRY
Basic analytical Techniques in Industry

Practical Schedule
2023-2024

Date	Batch T1 Time (7:00 am to 10:00 am)	Batch T2 Time (3:pm to 6:00 pm)	Name of Experiment
28-29/11/2023	DJS	NHW	1. To determine the percentage purity of given soda-ash sample. 2. Estimation the amount of Aspirin from given tablet.
30/11/2023 & 01/12/2023	SBF	AAG	3.- Determination of titrable acidity in the given sample of milk or lassi 4. To determine the hardness of Water
04-05/12/2023	VBS	SRM	5. To determine the normality of strong acid by conductometric titration. 6. To determine the unknown concentration of copper by colorimetric method
06-07/12/2023	VVG	SSP	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.
08-11/12/2023	SAM	NHW	9. To determine the specific rotation of cane sugar solution using Polarimeter. 10. To determine the amount of nitrogen from given fertilizer sample.
12-13/12/2023	DAK	SRM	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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Name of Course: Basic Analytical Techniques in Industry (2023-2024)

Practical Attendance Sheet

Sr. No.	NAME OF STUDENTS	28/11/23	29/11/23	30/11/23	01/12/23	04/12/23	05/12/23	06/12/23	07/12/23	08/12/23	11/12/23	12/12/23	13/12/23
1	Ambi Yashovi Suresh	<u>Yambi</u>	<u>Yambi</u>	<u>Yambi</u>	<u>Yambi</u>	<u>Yambi</u>	<u>Yambi</u>	<u>Yambi</u>	<u>Yambi</u>	<u>Yambi</u>	<u>Yambi</u>	<u>Yambi</u>	<u>Yambi</u>
2	Patil Mansi Vidyanand	<u>Patil</u>	<u>Patil</u>	<u>Patil</u>	<u>Patil</u>	<u>Patil</u>	<u>Patil</u>	<u>Patil</u>	<u>Patil</u>	<u>Patil</u>	<u>Patil</u>	<u>Patil</u>	<u>Patil</u>
3	Adarshe Vaibhavi Rajendra	<u>Adarshe</u>	<u>Adarshe</u>	<u>Adarshe</u>	<u>AB</u>	<u>Adarshe</u>	<u>Adarshe</u>	<u>Adarshe</u>	<u>Adarshe</u>	<u>AB</u>	<u>Adarshe</u>	<u>Adarshe</u>	<u>Adarshe</u>
4	Chavan Rutuja Baban.	<u>CBS</u>	<u>CBS</u>	<u>CBS</u>	<u>CBS</u>	<u>CBS</u>	<u>CBS</u>	<u>CBS</u>	<u>AB</u>	<u>CBS</u>	<u>CBS</u>	<u>CBS</u>	<u>CBS</u>
5	Naik Revali Santosh	<u>R.S.Naik</u>	<u>R.S.Naik</u>	<u>AB</u>	<u>R.S.Naik</u>	<u>R.S.Naik</u>	<u>R.S.Naik</u>	<u>R.S.Naik</u>	<u>R.S.Naik</u>	<u>R.S.Naik</u>	<u>AB</u>	<u>R.S.Naik</u>	<u>R.S.Naik</u>
6	Tadakhe Radhika Sanjay	<u>Tadake</u>	<u>Tadake</u>	<u>AB</u>	<u>Tadake</u>	<u>Tadake</u>	<u>Tadake</u>	<u>AB</u>	<u>Tadake</u>	<u>Tadake</u>	<u>Tadake</u>	<u>Tadake</u>	<u>Tadake</u>
7	Patil Anshu Baliram	<u>Patil</u>	<u>Patil</u>	<u>Patil</u>	<u>Patil</u>	<u>Patil</u>	<u>Patil</u>	<u>Patil</u>	<u>AB</u>	<u>Patil</u>	<u>Patil</u>	<u>Patil</u>	<u>Patil</u>
8	Bhatale Priyanka Dasharath	<u>PDB</u>	<u>PDB</u>	<u>PDB</u>	<u>PDB</u>	<u>PDB</u>	<u>PDB</u>	<u>PDB</u>	<u>PDB</u>	<u>PDB</u>	<u>PDB</u>	<u>PDB</u>	<u>PDB</u>
9	Shevale Atya Satish.	<u>A.s.shevale</u>	<u>A.s.shevale</u>	<u>A.s.shevale</u>	<u>A.s.shevale</u>	<u>A.s.shevale</u>	<u>A.s.shevale</u>	<u>A.s.shevale</u>	<u>AB</u>	<u>A.s.shevale</u>	<u>A.s.shevale</u>	<u>AB</u>	<u>AB</u>
10	Nalawade Anuradha Dilip	<u>ADY</u>	<u>ADY</u>	<u>ADY</u>	<u>ADY</u>	<u>ADY</u>	<u>ADY</u>	<u>ADY</u>	<u>ADY</u>	<u>ADY</u>	<u>ADY</u>	<u>ADY</u>	<u>ADY</u>
11	Yashraj Subhash Chougule	<u>SSS</u>	<u>SSS</u>	<u>SSS</u>	<u>SSS</u>	<u>SSS</u>	<u>SSS</u>	<u>SSS</u>	<u>SSS</u>	<u>SSS</u>	<u>SSS</u>	<u>SSS</u>	<u>SSS</u>



12	Akshay Prashant Gavate	Ameg	AB	Amey	Amey	AB	AB	Amey	Amey	Amey	Amey	Amey
13	Vishal Shashikant Patekar	V-S-Patekar	V-S-Patekar	V-S-Patekar	V-S-Patekar	V-S-Patekar	V-S-Patekar	V-S-Patekar	V-S-Patekar	V-S-Patekar	V-S-Patekar	V-S-Patekar
14	Aniruddha Amanda Mudgal	AAm	AAm	AAm	AAm	AAm	AAm	AAm	AAm	AAm	AAm	AAm
15	Saloni Ramesh Powar	Spaul	Spaul	Spaul	Spaul	AB	Spaul	Spaul	Spaul	Spaul	Spaul	Spaul
16	Shravani Samrat Kamat	Skam	Skam	Skam	Skam	Skam	Skam	AB	Skam	Skam	Skam	AB
17	Akshay Anil Mandapure	Amadps	Amey	Amey	Amey	Amey	Amey	Amey	Amey	AB	Amey	Amey
18	Sarvesh Ramesh Mane	Sam	Sam	Sam	Sam	Sam	Sam	Sam	Sam	AB	Sam	Sam
19	Nikhil Rajaram Patill	NPS	NPS	NPS	NPS	NPS	NPS	NPS	NPS	NPS	NPS	NPS
20	Akshay Suresh Kumbhar	ASK	ASK	ASK	ASK	ASK	ASK	ASK	ASK	ASK	ASK	ASK
21	Rakesh Madhukar Kadam	Zak	Zak	Zak	Zak	Zak	Zak	Zak	Zak	AB	Zak	Zak
22	Arman Husen Nadaf	A-H-Nadaf	AB	AB	A-H-Nadaf	A-H-Nadaf	A-H-Nadaf	A-H-Nadaf	A-H-Nadaf	A-H-Nadaf	A-H-Nadaf	A-H-Nadaf
23	Alisha Nuruddin Mulla	Pomul	Pomul	Pomul	Pomul	AB	AB	Pomul	Pomul	Pomul	Pomul	Pomul
24	Javeriya Javed Rathan	J-J-Rathan	AB	J-J-Rathan	J-J-Rathan	J-J-Rathan	J-J-Rathan	J-J-Rathan	J-J-Rathan	J-J-Rathan	J-J-Rathan	AB
25	Rahul Madhukar	AB	Ram	Ram	Ram	Ram	Ram	Ram	Ram	Ram	Ram	Ram



24	Javeriya Javed Rathan	J.J.Rathan	J.J.Rathan	Ab	Ab	J.J.Rathan	J.J.Rathan	J.J.Rathan	J.J.Rathan	J.J.Rathan	J.J.Rathan	J.J.Rathan
25	Rahul Madhukar Alggunde	Rahul	Rahul	Rahul	Rahul	Rahul	Rahul	Rahul	Rahul	Rahul	Rahul	Rahul
26	Bhushan Raju Amath	PSY	PSY	PSY	PSY	PSY	PSY	PSY	PSY	PSY	PSY	PSY
27	Summed Nitin Shintre	Snite	Snite	Snite	Snite	Snite	Snite	Snite	Snite	Snite	Snite	Snite
28	Kiran Rajaram Devmore	KDM	KDM	KDM	KDM	KDM	KDM	KDM	KDM	KDM	KDM	KDM
29	Prathamesh Kiran Salunkhe	Prs	Prs	Prs	Prs	Prs	Prs	Prs	Prs	Prs	Prs	Prs
30	Abhishers Maruti Sathe	Amsathe	Amsathe	Amsathe	Amsathe	Amsathe	Amsathe	Amsathe	Amsathe	Amsathe	Ab	Ab
31	Sourabh Sunil Jadhav	Sradav	Sradav	Sradav	Sradav	Sradav	Sradav	Sradav	Ab	Ab	Sradav	Sradav
32	Viresh Bapuso Bhore	VBbhore	VBbhore	VBbhore	VBbhore	VBbhore	VBbhore	VBbhore	VBbhore	VBbhore	VBbhore	VBbhore
33	Aniket Sanjay Done	ASDone	ASDone	ASDone	ASDone	ASDone	ASDone	ASDone	ASDone	ASDone	ASDone	ASDone
34	Thanekar Rohan Suresh	Rohan	Rohan	Rohan	Rohan	Rohan	Rohan	Rohan	Rohan	Rohan	Rohan	Rohan
35	Kamalkar Aditya Sudhakar	ACSS	ACSS	Ab	ACSS	ACSS	Ab	ACSS	ACSS	ACSS	Ab	ACSS
36	Powar Deep Vinayak	DeepS	DeepS	DeepS	DeepS	DeepS	DeepS	DeepS	DeepS	DeepS	DeepS	DeepS
37	Shende Sangram Shankar	Shende	Shende	Shende	Shende	Shende	Shende	Shende	Shende	Shende	Shende	Shende



38	Ghadage Sourabh Sunil	<u>ysun</u>	<u>ysun</u>	<u>ysun</u>	<u>ysun</u>	<u>ysun</u>	<u>ysun</u>	<u>ysun</u>	<u>ysun</u>	AB	AB	<u>ysun</u>
39	Hulmani Prakash Bhojraj	<u>P.B.Hulmani</u>	<u>P.B.Hulmani</u>	<u>P.B.Hulmani</u>	<u>P.B.Hulmani</u>	<u>P.B.Hulmani</u>	<u>P.B.Hulmani</u>	<u>P.B.Hulmani</u>	<u>P.B.Hulmani</u>	AB	AB	<u>P.B.Hulmani</u>
40	Patil Sanika Subhash	<u>Spaul</u>	<u>Spaul</u>	AB	<u>Spaul</u>	<u>Spaul</u>	<u>Spaul</u>	<u>Spaul</u>	<u>Spaul</u>	AB	<u>Spaul</u>	<u>Spaul</u>
41	Patankar Dhanaya Dilip	<u>Patakar</u>	<u>Patakar</u>	<u>Patakar</u>	<u>AB</u>	<u>AB</u>	<u>AB</u>	<u>Patakar</u>	<u>Patakar</u>	<u>Patakar</u>	<u>Patakar</u>	<u>Patakar</u>
42	Malawade Aditya Gajanan	<u>AGaj</u>	<u>AGaj</u>	<u>AGaj</u>	<u>AGaj</u>	<u>AGaj</u>	<u>AGaj</u>	<u>AGaj</u>	<u>AGaj</u>	<u>AGaj</u>	<u>AGaj</u>	<u>AGaj</u>
43	Patil Kiran Bhimgonda	<u>KBPatil</u>	<u>KBPatil</u>	<u>KBPatil</u>	<u>KBPatil</u>	<u>KBPatil</u>	<u>KBPatil</u>	<u>KBPatil</u>	<u>KBPatil</u>	<u>KBPatil</u>	<u>KBPatil</u>	<u>KBPatil</u>
44	Magdum Pritesh Sujay	<u>PSujay</u>	<u>PSujay</u>	<u>PSujay</u>	<u>PSujay</u>	<u>PSujay</u>	<u>PSujay</u>	<u>PSujay</u>	<u>PSujay</u>	<u>PSujay</u>	AB	<u>PSujay</u>
45	Rege Vinayak Sambhaji	<u>VSPatil</u>	<u>VSPatil</u>	<u>VSPatil</u>	<u>VSPatil</u>	<u>VSPatil</u>	<u>VSPatil</u>	<u>VSPatil</u>	<u>VSPatil</u>	<u>VSPatil</u>	<u>VSPatil</u>	AB
46	Sawant Samiksha Madhukar	<u>SmSawant</u>	<u>SmSawant</u>	<u>SmSawant</u>	<u>SmSawant</u>	<u>SmSawant</u>	<u>SmSawant</u>	<u>SmSawant</u>	<u>SmSawant</u>	<u>SmSawant</u>	<u>SmSawant</u>	AB
47	Kadakane Pratiksha Ravasaheb	<u>PRPatil</u>	<u>PRPatil</u>	<u>PRPatil</u>	<u>PRPatil</u>	<u>PRPatil</u>	<u>PRPatil</u>	<u>PRPatil</u>	<u>PRPatil</u>	<u>PRPatil</u>	<u>PRPatil</u>	AB
48	Ballole Vishal Surendra	<u>BSure</u>	<u>BSure</u>	<u>BSure</u>	<u>BSure</u>	<u>BSure</u>	<u>BSure</u>	<u>BSure</u>	AB	AB	<u>BSure</u>	<u>BSure</u>



ONLY
HEAD,
 Department of Chemistry,
 Dattajirao Kadam Aris, Science
 & Commerce College,
 ICHALKARANJI.

“ज्ञान, विज्ञान आणि सुसंस्कार यासाठी शिक्षणप्रसार”
शिक्षणमहर्षि डॉ. आपूजी बाळुंबे

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Dattajirao Kadam Arts, Science & Commerce College,
Ichalkaranji.

Academic year 2023-2024

Basic Analytical Techniques in Industry

Notice

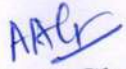
Date: 18/12/2023

All the students of course 'Basic Analytical Techniques in Industry' are hereby informed that, Theory and Practical examination of this course is scheduled as below. All the students must remain present for Theory and practical examination on scheduled time as there is no provision of Re-examination.

Date	Time	Paper	Marks
27/12/2023	11:00 am to 12:30 pm	Paper-I (Theory)	30
28/12/2023	11:00 am to 2:00 pm	Paper-II (Practical)	20


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शिक्षणमहर्षि डॉ. जापूजी बालुंबे

श्री ब्रह्मी विवेकानंद शिक्षण संस्था, कोल्हापूरचे

**Dattajirao Kadam Arts, Science & Commerce College,
Ichalkaranji.**

Department of Chemistry

Basic Analytical Techniques in Industry Paper-I

(2023-2024)

Date: 27-12-2023

Time: 1.5 hour

Marks:30

Q.1. Select the most correct alternative from the following and rewrite 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

- a) moles b) g mole c) grams d) g.equivalent

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 liter 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 is 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.....

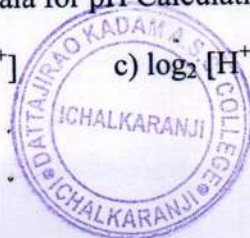
- a) emf of the two cell b) the unknown temp.
c) internal Resistance d) compare the emf of two cell

viii) The unit of conductance is.....

- a) ohm b) Tesla c) Seimen d) Gauss

ix) Which of the following is the formula for pH Calculation

- a) $\log_{10} [H^+]$ b) $-\log_{10} [H^+]$ c) $\log_2 [H^+]$ d) $-\log_2 [H^+]$



x) 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 |

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.
- c) Define the terms- Normality, Molarity, Molality, Equivalent weight.



Sr. No	Name of the Students	Sign	Sr. No	Name of the Students	Sign
1	Ambi Yashovi Suresh	(Signature)	25	Rahul Madhukar Aलगुंदे	(Signature)
2	Patil Mansi Vidyanand	(Signature)	26	Bhushan Raju Amath	(Signature)
3	Adarshe Vaibhavi Rajendra	(Signature)	27	Summed Nitin Shintre	(Signature)
4	Chavan Rutuja Baban.	(Signature)	28	Kiran Rajaram Devmore	(Signature)
5	Naik Revali Santosh	(Signature)	29	Prathamesh Kiran Salunkhe	(Signature)
6	Tadakhe Radhika Sanjay	(Signature)	30	Abhisheers Maruti Sathe	(Signature)
7	Patil Anshu Baliram	(Signature)	31	Sourabh Sunil Jadhav	(Signature)
8	Bhatale Priyanka Dasharath	(Signature)	32	Viresh Bapuso Bhore	(Signature)
9	Shevale Atya Satish.	(Signature)	33	Aniket Sanjay Done	(Signature)
10	Nalawade Anuradha Dilip	(Signature)	34	Thanekar Rohan Suresh	(Signature)
11	Yashraj Subhash Chougule	(Signature)	35	Kamalkar Aditya Sudhakar	(Signature)
12	Akshay Prashant Gavate	(Signature)	36	Powar Deep Vinayak	(Signature)
13	Vishal Shashikant Patekar	(Signature)	37	Shende Sangram Shankar	(Signature)
14	Aniruddha Amanda Mudgal	(Signature)	38	Ghadage Sourabh Sunil	(Signature)
15	Saloni Ramesh Powar	(Signature)	39	Hulmani Prakash Bhojraj	(Signature)
16	Shravani Samrat Kamat	(Signature)	40	Patil Sanika Subhash	(Signature)
17	Akshay Anil Mandapure	(Signature)	41	Patanekar Dhanaya Dilip	(Signature)
18	Sarvesh Ramesh Mane	(Signature)	42	Malawade Aditya Gajanan	(Signature)
19	Nikhil Rajaram Patil	(Signature)	43	Patil Kiran Bhimgonda	(Signature)
20	Akshay Suresh Kumbhar	(Signature)	44	Magdum Pritesh Sujay	(Signature)
21	Rakesh Madhukar Kadam	(Signature)	45	Rege Vinayak Sambhaji	(Signature)
22	Arman Husen Nadaf	(Signature)	46	Sawant Samiksha Madhukar	(Signature)
23	Alisha Nuruddin Mulla	(Signature)	47	Kadakane Pratikshta Ravasahab	(Signature)
24	Javeriya Javed Rathan	(Signature)	48	Ballole Vishal Surendra	(Signature)



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शिक्षणमहर्षि डॉ. बापूजी नाळुंबे
श्री स्वामी विवेकानंद शिक्षण संस्था, कोल्हापूरचे
Dattajirao Kadam Arts, Science & Commerce College,
Ichalkaranji.
Department of Chemistry
Basic Analytical Techniques in Industry Paper-II
Practical Examination (2023-2024)

Date: 28-12-2023

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.



“ज्ञानं, विज्ञानं ज्ञानोः सारं विज्ञानं विज्ञानं”

विज्ञानं विज्ञानं विज्ञानं विज्ञानं

श्री स्वामी विवेकानंदा शिकशान संस्था, कोल्हापुर

Dattajirao Kadam Arts, Science and Commerce College, Ichalkaranji

DEPARTMENT OF CHEMISTRY

Basic Analytical Techniques in Industry 2023-24

Paper II

Practical Exam Attendance

Sr. No	Name of the Students	Sign	Sr. No	Name of the Students	Sign
1	Ambi Yashovi Suresh	[Signature]	25	Rahul Madhukar Alagunde	[Signature]
2	Patil Mansi Vidyanand	[Signature]	26	Bhushan Raju Amath	[Signature]
3	Adarshe Vaibhavi Rajendra	[Signature]	27	Summed Nitin Shintre	[Signature]
4	Chavan Rutuja Baban.	[Signature]	28	Kiran Rajaram Devmore	[Signature]
5	Naik Revalli Santosh	[Signature]	29	Prathamesh Kiran Salunkhe	[Signature]
6	Tadakhe Radhika Sanjay	[Signature]	30	Abhishek Maruti Sathe	[Signature]
7	Patil Anshu Baliram	[Signature]	31	Sourabh Sunil Jadhav	[Signature]
8	Bhatale Priyanka Dasharath	[Signature]	32	Viresh Bapuso Bhore	[Signature]
9	Shevale Atya Satish.	[Signature]	33	Aniket Sanjay Done	[Signature]
10	Nalawade Anuradha Dilip	[Signature]	34	Thanekar Rohan Suresh	[Signature]
11	Yashraj Subhash Chougule	[Signature]	35	Kamalkar Aditya Sudhakar	[Signature]
12	Akshay Prashant Gavate	[Signature]	36	Powar Deep Vinayak	[Signature]
13	Vishal Shashikant Patekar	[Signature]	37	Shende Sangram Shankar	[Signature]
14	Aniruddha Amanda Mudgal	[Signature]	38	Ghadage Sourabh Sunil	[Signature]
15	Saloni Ramesh Powar	[Signature]	39	Hulmani Prakash Bhojraj	[Signature]
16	Shravani Samrat Kamat	[Signature]	40	Patil Sanika Subhash	[Signature]
17	Akshay Anil Mandapure	[Signature]	41	Patankar Dhanaya Dilip	[Signature]
18	Sarvesh Ramesh Mane	[Signature]	42	Malawade Aditya Gajanan	[Signature]
19	Nikhil Rajaram Patil	[Signature]	43	Patil Kiran Bhimgonda	[Signature]
20	Akshay Suresh Kumbhar	[Signature]	44	Magdum Pritesh Sujay	[Signature]
21	Rakesh Madhukar Kadam	[Signature]	45	Rege Vinayak Sambhaji	[Signature]
22	Arman Husen Nadaf.	[Signature]	46	Sawant Samiksha Madhukar	[Signature]
23	Alisha Nuruddin Mulla	[Signature]	47	Kadakane Pratiksha Ravasahab	[Signature]
24	Javeriya Javed Rathan	[Signature]	48	Ballole Vishal Surendra	[Signature]



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

“જાત, વિજ્ઞાન જાતો યુગ્મકારક યાત્રાતી વિજ્ઞાનપ્રવાસ”
જિજ્ઞાસુઓને ડૉ. જાણી આજુએ

શ્રી રણવી વિવેકભાઈ જિજ્ઞાસુ સંસ્થા, તોલપુર

Dattajirao Kadam Arts, Science & Commerce College,

Ichalkaranji

Department Of Chemistry

Name of Course: Basic Analytical Techniques in Industry

(2023-2024)

RESULT - 2023-2024

Sr. No.	NAME OF STUDENTS	PAPER I (Theory)	PAPER II (Practical)	TOTAL (Out of 50)	GRADE
1	Ambi Yashovi Suresh	25	18	43	A
2	Patil Mansi Vidyanand	27	19	46	A+
3	Adarsh Vaibhavi Rajendra	24	16	40	A
4	Chavan Rutuja Baban.	27	16	43	A
5	Naik Revali Santosh	21	18	39	A
6	Tadakhe Radhika Sanjay	22	18	40	A
7	Patil Anshu Baliram	26	14	40	A
8	Bhatale Priyanka Dasharath	27	15	42	A
9	Shevale Atya Satish.	25	18	43	A
10	Nalawade Anuradha Dilip	26	16	42	A
11	Yashraj Subhash Chougule	25	17	42	A
12	Akshay Prashant Gavate	22	18	40	A
13	Vishal Shashikant Patekar	23	17	40	A
14	Aniruddha Amanda Mudgal	26	14	40	A
15	Saloni Ramesh Powar	27	17	44	A
16	Shravani Samrat Kamat	24	18	42	A
17	Akshay Anil Mandapure	20	18	38	A
18	Sarvesh Ramesh Mane	18	16	34	B+
19	Nikhil Rajaram Patil	19	16	35	B+
20	Akshay Suresh Kumbhar	20	15	35	B+
21	Rakesh Madhukar Kadam	24	16	40	A
22	Arman Husen Nadaf	25	17	42	A



Department of Chemistry,
Tattajirao Kadam Arts, Science
& Commerce College,
ICHALKARANJLI.
HEAD,
(Dr. A. A. Ghare)



Department of Chemistry,
Tattajirao Kadam Arts, Science
& Commerce College,
ICHALKARANJLI.
Co-ordinator,
(Dr. D. A. Kumbhar)

(Signature)

23	Alisha Nuruddin Mulla	27	15	42	A
24	Javeriya Javed Rathan	26	16	42	A
25	Rahul Madhukar Aligunde	26	17	43	A
26	Bhushan Raju Amath	24	16	40	A
27	Summed Nitin Shintre	27	18	45	A
28	Kiran Rajaram Devmore	24	17	41	A
29	Prathamesh Kiran Salunkhe	25	15	40	A
30	Abhisheers Maruti Sathe	23	17	40	A
31	Sourabh Sunil Jadhav	22	16	38	A
32	Viresh Bapuso Bhore	20	16	36	A
33	Aniket Sanjay Done	26	18	44	A
34	Thanekar Rohan Suresh	27	18	45	A
35	Kamalkar Aditya Sudhakar	24	17	41	A
36	Powar Deep Vinayak	21	16	37	A
37	Shende Sangram Shankar	21	17	38	A
38	Ghadage Sourabh Sunil	19	15	34	B+
39	Hulmani Prakash Bhojraj	18	15	33	B+
40	Patil Sanika Subhash	26	17	43	A
41	Patankar Dhanaya Dilip	28	18	46	A+
42	Malawade Aditya Gajanan	20	17	37	A
43	Patil Kiran Bhimgonda	23	16	39	A
44	Magdum Pritesh Sujay	21	15	36	A
45	Rege Vinayak Sambhaji	25	17	42	A
46	Sawant Samiksha Madhukar	27	17	44	A
47	Kadakane Pratiksha Ravasahab	23	16	39	A
48	Balole Vishal Surendra	26	18	44	A

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



Shri Swami Vivekanand Shikshan Sanstha's Kolhapur

**Dattajirao Kadam Arts, Science & Commerce
College, Ichalkaranji, District: - Kolhapur**

(Affiliated to Shivaji University, Kolhapur)



**Certificate Course in Basic Analytical Techniques in
Industry (2023-2024)**

Shri/Smt: Patil Sanika Subhash

Exam: December 2023

Seat No.	Paper I	Paper II	Grand Total	Percentage	Grade	Remark
97	Theory	Practical				
Maximum Marks	30	20	50	86.0 %	A	Pass
Minimum for Passing	11	07	18			
Marks Obtained	26	17	43			

Date: - 10th Jan 2024

Dr. D. A. Kumbhar
Coordinator

Mr. N. H. Waghmare
Co-Coordinator



Dr. A. A. Ghare
H. O. D. Department of
Chemistry

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- Shikshanmaharshi Dr. Bapuji Salunkhe



Shri Swami Vivekanand Shikshan Sanstha's Kolhapur

ICHALKARANJI

**Dattajirao Kadam Arts, Science & Commerce
College, Ichalkaranji, District: - Kolhapur**
(Affiliated to Shivaji University, Kolhapur)

Certificate

This is to certify that **Mr./Miss. Patil Sanika Subhash** has
attended the certificate course in "**Basic Analytical
Techniques in Industry**" from **Sep 2023** to **Dec 2023** and
completed the course satisfactorily in A grade.

Date:- 12th Jan 2024

Dr. D. A. Kumbhar
Coordinator



Mr. N. H. Waghmare
Co-Coordinator

Dr. A. A. Ghare
H. O. D.
Department of Chemistry

Dr. S. M. Maner
Principal