Shri Tilok Jain Dnyan Prasarak Mandal's Shri Anand College, Pathardi Dist: Ahmednagar (MS) 414102 CERTIFICATE COURSE ON COMPUTING SKILLS AND HANDS ON TRAINING IN ANALYTICAL INSTRUMENTATION

Year: 2022-23

The certificate course on "Computing skills and Hands on Training in Analytical Instrumentation", started for the college students during the academic year 2018-2019. It provides the key knowledge base and laboratory resources to prepare students for careers as professionals in the field of Chemistry and particularly in Analytical instruments handling enabling them to interface not only with various branches of Chemistry (Organic, Inorganic, Physical, Biological, Industrial, Environmental, Pharmaceuticals etc.) but also with the related fields, and for professional courses and are as of research including medical, forensic, food, agriculture, dental, law, intellectual property, business programs etc. Characterization and analytical techniques are methods used to identify, isolate or quantify chemicals or materials, or to characterize their physical properties. They include spectroscopy, electrochemical analysis, and other measurements used in Chemistry and material science. The instrumentation in quality control laboratories plays a vital role for fast processing and analysis of testing samples. Thus, skilled personnel who are trained for handling sophisticated instruments is important aspect in the characterizations. Using quality equipment there is enhancement in quality and minimization of errors in testing of samples, which helps to produce timeline results. Our training module assures hands-on theoretical, practical and conceptual basic on the instruments for thorough understanding of analytical instruments and methods. This training course aims to give practical demonstration on instruments, calibration and method development so the participant can achieve the analytical and interpretative skills which are critical for working in the laboratory. There is a challenge before universities to fulfill the demand of skilled human resources as the education given in academic institutions may not be fully acquainted with needs of the today's growing industries. We, the academic institutions working under the umbrella of university do not have that much academic flexibility in designing the syllabi of our courses. Hence, in order to cater the requirements of chemical industries and analytical laboratories there is utmost need to design and develop a course which will provide practical knowledge and skills of handling sophisticated instruments to the students.

Department of Chemistry has designed the certificate course on "Sophisticated Analytical Instrument Handling" especially for UG, PG and Research students. This course will provide breakthrough knowledge of instrumentation, handling and applications of the high cost instruments *viz*. FT–IR with ATR attachment, UV–Visible Spectrophotometer with integrating sphere, Potentiostat/Galvanostat electrochemical instrument, Rotary evaporator, Constant temperate bath with chiller for crystal growth.

Eligibility:

Graduate, postgraduate or research students having Chemistry or Physics as one of the subjects.

Course Structure and Syllabus

Duration: Six months

Lectures: 1 Lecture & practical per week

<u>Assessment</u>: At the end by a paper consisting of 80 marks (Theory 50% and Practical 50%). It will comprise multiple choice questions (MCQs), small experiment on the use of instrument and short answer questions.

Admission intake: Batch of 15-20 students per year

"Computing skills and Hands on Training in Analytical Instrumentation"

Certificate will be awarded to successful students who will attend at least 80% lectures, practicals and complete the assignments and qualify the MCQ examination.

Course Outcomes Expected:

1. Introduction of Instrumental Analysis

Objectives: Students will be able to-

- 1. Need of chemical analysis
- 2. Methods of chemical analysis
- 3. Various methods of instrumental analysis and their appropriateness
- 4. Some important applications

2. **FT-IR Spectroscopy :**

Aim : To learn principle, theory and practical applications of FT-IR spectroscopy.

Objectives: students will learn

- 5. Basic principle of infrared spectroscopy
- 6. Regions in infra red band
- 7. Modes of vibrations
- 8. Fourier transform
- 9. Standardization/calibration of the instrument

- 10. Instrumentation and how to record the spectrum
- 11. Interpretation of spectra and application of FT-IR.

3. UV-Visible Spectrophotometry:

Aim : To study principle, theory and applications of UV-Visible Spectroscopy

Objectives: The student will be able to understand

- 1. Basic principle, Lambert's Beer's law
- 2. Instrumentation of technique
- 3. Standardization/calibration of the instrument
- 4. Analysis using calibration and standard addition method
- 5. Tabulation and interpretation of results.

4. Rotary Evaporator:

Aim: To separate solvents precisely from different reaction mixtures under normal conditions.

Objectives: After learning this technique students will be able to

- 1. Understand the operations of technique in order to carry out distillation of various mixtures of solvent/chemicals.
- 2. Learn high vacuum separation of different solvents.
- 3. Remove/separate solvent from targeted compound.
- 4. Applications in research and routine practical work.

5. Potentiostat/Galvanostat

Aim: Thin film depositon

Objectives: After learning this technique students will be able to

- 1. Understand the use of this technique.
- 2. Standardization and optimization of parameters.
- 3. Thin-film deposition
- 4. Interpretation of results.

6. Constant temperature bath with chiller for crystal growth:

Aim: To permit the formation of one or only a few crystal nuclei, and to provide controlled

conditions so that the continuing growth form the nucleus to the desired size occurs without the nucleation of additional crystal and the formation of a polycrystalline mass.

Objectives: After learning this technique students will be able to know how to grow single crystal

- 1. Understand the operations of technique in order to start single crystal growth.
- 2. Optimization of parameter.
- 3. How to prepare semi organic single crystal.
- 4. Applications in research and routine practical work.

7. Magnetic susceptibility measurements:

Aim: Accurate measurements of susceptibility to understand diamagnetic and paramagnetic behavior of inorganic compounds

Objectives: After learning this technique students will be able to know how to grow single crystal

- 1. Understand the operations of technique in order to carry out the susceptibility measurements.
- 2. Preparation of sample &calibration.
- 3. Measurements & calculations.

References:

- 1. Instrumental Methods of Chemical Analysis, Chatwal and Anand.
- 2. Principles of IR Spectroscopy, Nakamoto Organic Spectroscopy , LDS Yadav
- 3. Analytical Chemistry(J.W) G. D. Christian
- 4. Principles of Instrumental Analysis- D. Skoog and D. West
- 5. Treatise on Analytical Chemistry; Vol. I to VII I, .M. Kolthoff.

Shri Anand College Pathardi Dist: Ahmednagar (MS) 414102 CERTIFICATE COURSE IN BASIC INSTRUMENTATION TRAINING

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Academic Year 2022-23

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kedae Akshay Gozak	sh T.T. BSC Byrry
- Sangale Sanker Jallinday	
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Pathan Bushra Iliyas	T.Y.BSC	Bund.
Kekan Vaishnovi Ranghath	T.Y.BSC	(Rekan.
Avhad Ashwini Sambhaji	T.Y.BSC	Buili
Knowle Divya Dilitery pibron	JT-Y.BSOL	SF .
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Sayyad Irshad Arif	TYBSC	Fishad
Udare Pupan Raiendra	T.Y.BSC	fidate
Buelaule Salcshi Chandrakant	TYBSC	Bacule.
Jaybhar Rushilessh Bubasaheb	Trybsc	-12Bran
Gosqui Harish sharad	T.Y.BSC	Abute
Phale Tushar Ravindra	TY BSC	Tust two
Prwar Ookar Gouind	T.Y.BSC	Inopul
Athone Rushikesh Dilip	T.Y.Bsc	Alme
Shailth Altab Hamid	T. Y. BSC	Shaizon.
Sangale Sanket Jalindar		Sansale
Karade Sauvar Balasaheb	TYBSC	Acupate
kedae Akshay Goeaksh	T.T.Bsc	Huizur
Shaikh Firoja Najir		-sharich
Merad Harshada Chandrakant	T.Y.BS	Bemerad
Belge Koma Balasahab	TY BSC	Blkomel
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area	50 000	Name of the Studens	class	Signatury
ak		Athone Rushikesh Dilip	T.Y. Bsc	
		Avhad Ashwini sambhaji	T.Y.B.SC	Blut
2 ·	_	Udare Runam Rajendra	T.Y.BSC	Pudase
	-	Sayyad Irshad Arif	TYBSC	sashad.
1		Pathan Bushna Iliyas Buzkwe Sakshi Chanabrakant	T.Y.BSC	Bund.
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-	-	Kekan Valshnovi Rongnath	T.Y.BSC	Rekan
e		Dhytadak Pooja Dny meshwar	T.YBS	Systeelak
3		Vdeweint Ashwini sprikent	T.Y.BSC	Jungat
P		Jay bhaz Ryshikesh Babasaheb	T'y bsc	+B)
-		khoste Diya Dinkae	T.Y.BC)
5		Gasaví Harish Shorad	T.Y.BSC	Harri
		Shale Tushar Ravindra	TYBSC	Tool Sort
1		Pawar Onkar Govind	T.Y.BSC	traffinge
5.		Kakade Saurav Balasabeb	T-1.850	Saperk
X		Shaikh Alter & Hamiel	T.Y.BSC	Zhaikh.
-		Kedas Akshay Golaksh	TTBSC	Barry.
		Sangale Sanket Jalindar	T.Y.BSC	Sansale
4		shaikh Fingia Najir	T.Y.BSC	-Sherikh -
		Merad Harshada Chandrakant	TYBSC	Demerad
8		Belge Komal Balasaheb	TyBSC	Plemel.
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Name of the Student:	Username	Class & Subject:	Total score
Onkar Govind Pawar	omkarpawar8329@gmail.com	T.Y.B.Sc	32.00/40
Shaikh Firoja Najir	firojashaikh2021@shrianandcollege.com	T.Y.B.Sc	34.00 / 40
Ganesh Annasaheb Tupe	gtupe50@gmail.com	T.Y.B.Sc	32.00 / 40
Pathan Bushra Iliyas	bushrapathan2210@gmail.com	T.Y.B.Sc	36.00/40
Sakshi Burkule	sak2323bur@gmail.com	T.Y.B.Sc	36.00/40
Dhale Tushar Ravindra	tushardhale2021@shrianandcollege.com	T.Y.B.Sc	32.00/40
Gosavi Harish Sharad	harishgosavi2020@gmail.com	T.Y.B.Sc	28.00/40
Sayyad Irshad Arif	fakirsunna@gmail.com	T.Y.B.Sc	34.00/40
Sangale Sanket Jalindar	sanketsangale9@gmail.com	T.Y.B.Sc	28.00/40
Athare Rushikesh Dilip	atharerushi2149@gmail.com	T.Y.B.Sc	30.00 / 40
Jaybhar Rushikesh Babasaheb	rushikeshjaybhar@gmail.com	T.Y.B.Sc	30.00/40
Ashwini Sambhaji Avhad	asavhad2002@gmail.com	T.Y.B.Sc	34.00/40
Komal Balasaheb Belge	komalbelge313@gmail.com	T.Y.B.Sc	36.00/40
Kedar Akshay Goraksh	akshaykedar2003@gmail.com	T.Y.B.Sc	30.00/40
Ashwini Sambhaji Avhad	asavhad2002@gmail.com	T.Y.B.Sc	34.00/40
Garudkar Rohini Raju	garudkarrohini0170@gmail.com	T.Y.B.Sc	28.00/40
Akshay Goraksh Kedar	akshaykedar2003@gmail.com	T.Y.B.Sc	30.00/40
Khorde Divya Dinkar	divyakhorde2002@gmail.com	T.Y.B.Sc	34.00/40
Barde Preeti Arjun	preetibarde69@gmail.com	T.Y.B.Sc	36.00/40
Ghorpade Nikita Bhagwan	nikitaghorpade172@gmail.com	T.Y.B.Sc	30.00/40
Shirsat Shivkumar Sheshrao	shivkumarshirsat2025@gmail.com	T.Y.B.Sc	28.00/40
Punam Rajendra Udare	poonamudare25@gmail.com	T.Y.B.Sc	26.00/40
Dhaytadak Pooja Dnyaneshwar	poojadhayatadak2021@shrianandcollege .com	T.Y.B.Sc	36.00 / 40
Merad Harshada Chandrakant	meradharshada@gmail.com	T.Y.B.Sc	30.00 / 40
Saurav Balasaheb Kakade	sauravkakade238@gmail.com	T.Y.B.Sc	22.00/40
Thombare Sandip Ambadas	thombaresandip59@gmail.com	T.Y.B.Sc	20.00/40
Satpute Vijayshri Bandu	satputevijayshri25@gmail.com	Ť.Y.B.Sc	30.00 / 40
Handal Sachin Mahadev	handalsachin22@gmail.com	T.Y.B.Sc	30.00 / 40
Handal Vitthal Balasaheb	handalvitthal121314@gmail.com	T.Y.B.Sc	25.00/40

List of qualified students in certificate course in Computing Skills and Hands on Training in Analytical Instrumentation (Date of examination: 14/05/2023, Time: 9 am to 10 am

Principal Shri Anand College Pathardi, Dist. A. Nagar

Total Score of Theory and practical

Name of the Student:	Class & Exam scor Subject:	Exam score	Practical score	Total	
Onkar Govind Pawar	T.Y.B.Sc	32.00 / 40	30.00/40	62.00/80	
Shaikh Firoja Najir	T.Y.B.Sc	34.00 / 40	35.00/40	69.00/80	
Ganesh Annasaheb Tupe	T.Y.B.Sc	32.00 / 40	30.00/40	62.00/80	
Pathan Bushra Iliyas	T.Y.B.Sc	36.00 / 40	35.00/40	71.00/80	
Sakshi Burkule	T.Y.B.Sc	36.00 / 40	35.00/40	71.00/80	
Dhale Tushar Ravindra	T.Y.B.Sc	32.00/40	33.00/40	65.00/80	
Gosavi Harish Sharad	T.Y.B.Sc	28.00 / 40	32.00/40	60.00/80	
Sayyad Irshad Arif	T.Y.B.Sc	34.00 / 40	32.00/40	66.00/80	
Sangale Sanket Jalindar	T.Y.B.Sc	28.00/40	30.00/40	58.00/80	
Athare Rushikesh Dilip	T.Y.B.Sc	30.00/40	31.00/40	61.00/80	
Jaybhar Rushikesh Babasaheb	T.Y.B.Sc	30.00 / 40	30.00/40	60.00/80	
Ashwini Sambhaji Avhad	T.Y.B.Sc	34.00/40	33.00/40	67.00/80	
Komal Balasaheb Belge	T.Y.B.Sc	36.00 / 40	34.00/40	70.00/80	
Kedar Akshay Goraksh	T.Y.B.Sc	30.00 / 40	35.00/40	65.00/80	
Ashwini Sambhaji Avhad	T.Y.B.Sc	34.00 / 40	34.00/40	68.00/80	
Garudkar Rohini Raju	T.Y.B.Sc	28.00 / 40	35.00/40	63.00/80	
Akshay Goraksh Kedar	T.Y.B.Sc	30.00/40	35.00/40	65.00/80	
Khorde Divya Dinkar	T.Y.B.Sc	34.00 / 40	35.00/40	69.00/80	
Barde Preeti Arjun	T.Y.B.Sc	36.00/40	30.00/40	66.00/80	
Ghorpade Nikita Bhagwan	T.Y.B.Sc	30.00 / 40	34.00/40	64.00/80	
Shirsat Shivkumar Sheshrao	T.Y.B.Sc	28.00/40	33.00/40	61.00/80	
Punam Rajendra Udare	T.Y.B.Sc	26.00/40	33.00/40	59.00/80	
Dhaytadak Pooja Dnyaneshwar	T.Y.B.Sc	36.00 / 40	35.00/40	71.00/80	
Merad Harshada Chandrakant	T.Y.B.Sc	30.00 / 40	32.00/40	62.00/80	
Saurav Balasaheb Kakade	T.Y.B.Sc	22.00 / 40	30.00/40	52.00/80	
Thombare Sandip Ambadas	T.Y.B.Sc	20.00 / 40	30.00/40	50.00/80	
Satpute Vijayshri Bandu	T.Y.B.Sc	30.00 / 40	31.00/40	51.00/80	
Handal Sachin Mahadev	T.Y.B.Sc	30.00 / 40	30.00/40	60.00/80	
Handal Vitthal Balasaheb	T.Y.B.Sc	25.00/40	30.00/40	55.00/80	

C) 2 Principal Shri Anand College Pathardi, Dist.A. Nagar

Certificate course on "Computing skills and Hands on Training in Analytical Instrumentation"



s ten min aal ge p Shri Tilok Jain Diiyan Prasarak Mandoo -

Shri Anand College

Tal: Pathardi, Dist: Ahmednagr, (MS), Pin:414102

Certificate of Completion



This is to certify that Mr./Miss. Buckwe. Saksbi. Chardrakard. has successfully completed CDC approved career oriented certificate course in computing skills and Hands on Training in Analytical Instrumentation during the academic year 2022- 2023 organied by Department of Chemistry, Shri Anan College, Parardi.

Prof. Dr. Anil Gambhire Course Co-ordinator

Dr. Pratik Nagawade Countdinator, 1QAC

D. Sheshrao Pawar

Principal

॥ पढमं णाणं तओ दया ॥

Shri Tilok Jain Dnyan Prasarak Mandal's

Shri Anand College

Tal: Pathardi, Dist: Ahmednagr, (MS), Pin:414102

Certificate of Completion

This is to certify that Mr./Miss. ...Sayya.d...T.r.shad...Ari.f. has successfully completed CDC approved career oriented certificate course in Computing skills and Hands on Training in Analytical Instrumentation during thr academic year 20²²- 20²³ organied by Department of Chemistry, Shri Anan College, Portardi.

to-lo Prof. Dy Anil Gambhire **Course** Co-ordinator

50

Dr. Pratik Nagawade Co-ordinator, IQAC

Dr. Sheshrao Paway Principal

॥ पढनं णाणं तओ ढया ॥

Shri Tilok Jain Dnyan Prasarak Mandal's

Shri Anand College

Tal: Pathardi, Dist: Ahmednagr, (MS), Pin:414102

^{°°} Certificate of Completion

This is to certify that Mr./Miss. Onkey Govind Paway has successfully completed CDC approved career oriented certificate course in Computing skills and Hands on Training in Analytical Instrumentation during thr academic year 2022 - 2023 organied by Department of Chemistry, Shri Anan College, Pathardi.

Prof. Dr. Anil Gambhir

Course Co-ordinator

ratik Nagawade Co-ordinator, IOAC

Dr. Sheshrao Pawai Principal

॥ पढमं णाणं तओ दया ॥

Shri Tilok Jain Dnyan Prasarak Mandal's

Shri Anand College

Tal: Pathardi, Dist: Ahmednagr, (MS), Pin:414102

Certificate of Completion

This is to certify that Mr./Miss. <u>Ganesh</u> <u>Annasaheb</u> <u>Tupe</u> has successfully completed CDC approved career oriented certificate course in Computing skills and Hands on Training in Analytical Instrumentation during thr academic year 2023 - 2023 organied by Department of Chemistry, Shri Anan College, Pathardi.

Prof. D/ Anil Gambhire Course Co-ordinator

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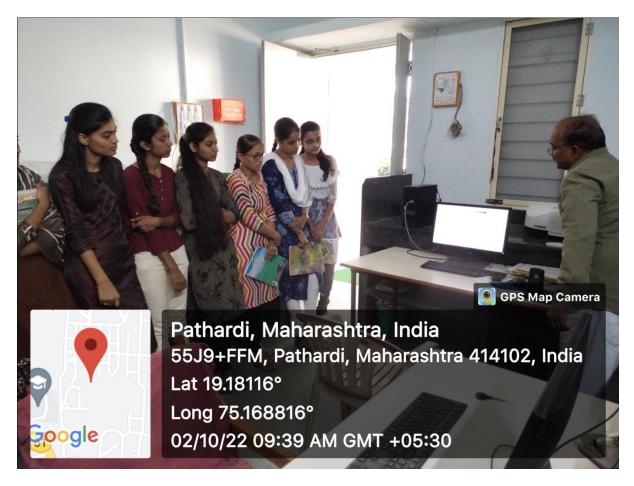
Dr. Pratik Nagawade Co-ordinator, IQAC

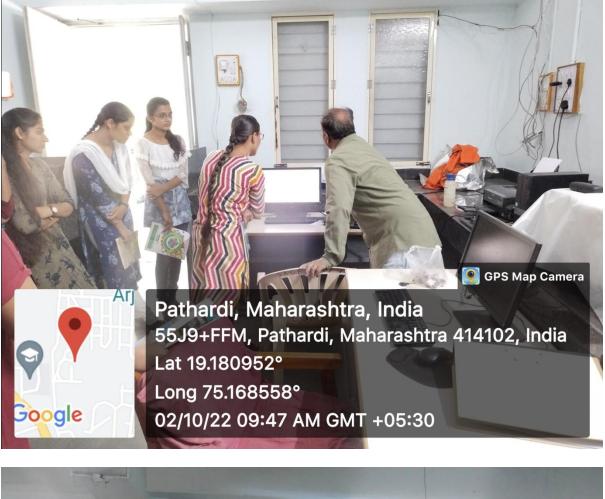
Dr. Sheshrao Pawai Principal

॥ पढमं णाणं तओ दया ॥ Shri Tilok Jain Dnyan Prasarak Mandal's **Shri Anand College** Tal: Pathardi, Dist: Ahmednagr, (MS), Pin:414102 Certificate of Completion This is to certify that Mr./Miss. Keday Akshay Govakash has successfully completed CDC approved career oriented certificate course in Computing skills and Hands on Training in Analytical Instrumentation during thr academic year 2022- 2023 organied by Department of Chemistry, Shri Anan College, Pathardi. a atte 1.0.kl Prof. Dr. Anil Gambhire Dr. Pratik Nagawade Dr. Sheshrao Pawar Course Co-ordinator Co-ordinator, IOAC Principal



Handling of analytical equipments by the college students









Pathardi, Maharashtra, India 55J9+FFM, Pathardi, Maharashtra 414102, India Lat 19.181245° Long 75.16861° 13/11/22 10:21 AM GMT +05:30

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