PG DEPARTMENT OF CHEMISTRY DEVA MATHA COLLEGE, KURAVILANGAD

Affiliated to Mahatma Gandhi University, Kottayam



REPORT ON ADD-ON COURSE Instrumental Methods of Analysis

DMCK/ SFCHEM/AD 28/2022

Academic Year: 2022-2023



Add on Courses offered for Students: 2022-2023

 Chemical Lab Safety, Management and Some Analytical Applications in Chemistry DMCK/ SFCHEM/AD 27/2022
 Instrumental Methods of Analysis DMCK/ SFCHEM/AD 28/2022

Course Coordinator : Ms. Riya Tresa

Brochure

Academic Year : 2022-2023

Title : Instrumental Methods of Analysis

Instructional Hours : 30 Hours

Duration : 2 months

Mode of Instruction : Offline

Intake Capacity : 25 students

Eligibility : BSc Chemistry

Beneficiaries :II PG students

Date(s) on which Programme was Conducted : 13th Feb 2023- 17th Feb 2023

Collaborating Agency Inside/Outside the Institute: No

Organizing Dept. /Club & Name of the Coordinator: PG DEPARTMENT OF CHEMISTRY

Ms Riya Tresa

Number of Students Participated in the Programme :18 **Number of Students Completed the Programme** :18 : Page No. **Contents** 1. A Brief Report : 4 2. Objectives : 4 3. Syllabus : 5 4. Assessment Procedures : 5 5. Outcome : 6 6. List of Resource Persons : 6 7. Students List : 6 8. Attendance Sheet of Students with Signature : 7 (Should be signed & Sealed by HOD) 9. Geotagged Photos of all Sessions : 8 : 9 10. Mark List 11. Feed Back : 10 12. Model Certificate Issued to the Students : 11 (Scanned / Digital copy of all issued certificates should be uploaded in the respective folder provided for each department)

Signature
Name of the Coordinator
Department

NB: Hard copy of all the documents should be kept in the department

1. A Brief Report

An add-on course was organized by the PG Department of Chemistry, Deva Matha College Kuravilangad from 13th Feb 2023 on the topic "Instrumental Methods of Analysis". The practical and theory sessions were taken by Neenumol K.K, Roopesh Michael and Riya Tresa. Theory classes were conducted by offline mode and practical classes in our department lab. 18 students from our I PG completed this course. An examination was conducted after the course and the certificates were distributed.

2.Course Objectives

- 1. To introduce instrumentation and practical aspects of various spectroscopy techniques.
- 2. Exposure to advanced instrumentation facilities and maintenance.

3.Syllabus

Module 1 (10 Hours)

Introduction of instrumental techniques and hands on experience rotary evaporator, immersion coolers, Thermal instruments such as TGA-DTA, DSC etc,

Module 2 (10 Hours)

Chromatography- HPLC, Ion – exchange chromatography – Theory, Gas chromatography–Qualitative and quantitative studies using GC. Important applications of chromatographic techniques

Module 3 (5 Hours)

Electron microscopy- SEM and TEM

Module 4 (5 Hours)

Industrial visit

4. Assessment Procedures

Descriptive examination

Grading

5 point scale (A,B,C,D,failed)

5. Outcome

- CO1: The study of instrumentation and practical aspects of various spectroscopy techniques.
- CO2: Learn more about advanced instrumentation facilities and maintenance.

6. List of Resource Persons

- 1. Neenumol K.K
- 2. Roopesh Michael
- 3. Riya Tresa

7. Students List

- 1. AKHILA JOHNY
- 2. AMULYA ELIZABETH WILSON
- 3. ANJANA P
- 4. ARYA P J
- 5. CHRISTY GIGI
- 6. CHRISTY SEBASTIAN
- 7. EBIN SURESH
- 8. GEETHU KRISHNAN J
- 9. HARILAL C S
- 10. JAYAKRISHNAN V
- 11. KAVYA M PRAMOD
- 12. REEBA THYAGARAJAN
- 13. SANDRA ANN KUNJU
- 14. SEBIN SEBASTIAN
- 15. SREELAKSHMI SUDHAKARAN
- 16. STEPHY SAJI
- 17. SUSMIN A J
- 18. THERESA MATHEW

PG DEPARTMENT OF CHEMISTRY (AY: 2022-2023)

Course title: INSTRUMENTAL METHODS OF ANALYSIS

	Adm no.	Name of the student	Department	class	13/2/23	14/2/23	15/2/23	16/2/23	17/2/23	Remarks
1	2633	AKHILA JOHNY	MSc Chemistry	2nd PG	×	×	×	×	×	All no
2	2701	AMULYA ELIZABETH WILSON	MSc Chemistry	2nd PG	×	x	×	×	×	grand of
3	2707	ANJANA P	MSc Chemistry	2nd PG	x	×	x	х	х	All
4	2686	ARYA P J	MSc Chemistry	2nd PG	×	×	×	x	x	Aur
5	2667	CHRISTY GIGI	MSc Chemistry	2nd PG	×	×	x	×	×	10 to
6	2600	CHRISTY SEBASTIAN	MSc Chemistry	2nd PG	x	×	×	×	×	92.
7	2631	EBIN SURESH	MSc Chemistry	2nd PG	×	×	×	×	×	1023
8	2632	GEETHU KRISHNAN J	MSc Chemistry	2nd PG	х	×	х	X	x	dulla
9	2626	HARILAL C S	MSc Chemistry	2nd PG	x	х	х	х	x	Tariled
10	2622	JAYAKRISHNAN V	MSc Chemistry	2nd PG	х	×	x	x	x	Fresto al
11	2645	KAVYA M PRAMOD	MSc Chemistry	2nd PG	х	×	x	x	x	CPM MAIN
12	2630	REEBA THYAGARAJAN	MSc Chemistry	2nd PG	x	×	×	×	x	REALTH
13	2678	SANDRA ANN KUNJU	MSc Chemistry	2nd PG	х	×	х	x	X	Mad
14	2621	SEBIN SEBASTIAN	MSc Chemistry	2nd PG	x	Х	х	x	х	Lecondor
15	2709	SREELAKSHMI SUDHAKARAN	MSc Chemistry	2nd PG	x	×	x	×	x	Statshow
16	2681	STEPHY SAJI	MSc Chemistry	2nd PG	×	×	×	x	x	Sleph
17	2651	SUSMIN A J	MSc Chemistry	2nd PG	x	×	x	X	x	Sharing .
18	2620	THERESA MATHEW	MSc Chemistry	2nd PG	х	X	X	Х	x	thread



HEAD OF THE DEPARTMENT
P.G. DEPARTMENT OF CHEMISTRY
DEVA MATHA COLLEGE
KURAVILANGAD





PG DEPARTMENT OF CHEMISTRY (AY: 2022-2023)

Course title: INSTRUMENTAL METHODS OF ANALYSIS

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0.	no.	Name of the student	Department	class	Grade	Remarks
1	2633	AKHILA JOHNY	MSc Chemistry	2nd PG	A	Myla
		AMULYA ELIZABETH			A	amin's
2	2701	WILSON	MSc Chemistry	2nd PG		0
3	2707	ANJANA P	MSc Chemistry	2nd PG	A	AGE
4	2686	ARYA P J	MSc Chemistry	2nd PG	A	April .
5	2667	CHRISTY GIGI	MSc Chemistry	2nd PG	A	259ts
6	2600	CHRISTY SEBASTIAN	MSc Chemistry	2nd PG	A	W .
7	2631	EBIN SURESH	MSc Chemistry	2nd PG	A	12°
8	2632	GEETHU KRISHNAN J	MSc Chemistry	2nd PG	A	Paul
9	2626	HARILAL C S	MSc Chemistry	2nd PG	A	Tarilal
10	2622	JAYAKRISHNAN V	MSc Chemistry	2nd PG	А	THE STATE OF THE S
11	2645	KAVYA M PRAMOD	MSc Chemistry	2nd PG	A	- Khing
12	2630	REEBA THYAGARAJAN	MSc Chemistry	2nd PG	A	State
13	2678	SANDRA ANN KUNJU	MSc Chemistry	2nd PG	A	8 Mar
14	2621	SEBIN SEBASTIAN	MSc Chemistry	2nd PG	A	Ednista
15	2709	SREELAKSHMI SUDHAKARAN	MSc Chemistry	2nd PG	A	Nedstra
16	2681	STEPHY SAJI	MSc Chemistry	2nd PG	A	Stephy
17	2651	SUSMIN A J	MSc Chemistry	2nd PG	A	district.
18	2620	THERESA MATHEW	MSc Chemistry	2nd PG	A	e flores



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DEVA MATHA COLLEGE
KURAVILANGAD

lame of the student	Department	Class	Class no.	Email ID Course title Cont	Contact number Feedback
andra Mariya	MSC chemistry	1st PG	22PG 561	sandrasaji76@gmail.corr SAFETY,MANAGEMENT	7306206148 Very good class
sna saji	Chemistry	1st PG	22PG 558	Jisnasajijohn@gmail.com SAFETY,MANAGEMENT	8078016612 Class was very beneficial.
rishnapriya M	Chemistry	1st PG	22PG 560	krishnapriyam58@gmail. SAFETY,MANAGEMENT	8714031168 Good class
ARYA P J	Chemistry	2nd PG	21PG10	aryajayan,puthoor@gma INSTRUMENTAL METH	9074746792 Good
Stephy Saji	Msc chemistry	2nd PG	21PG17	Stephykadackal10@gma INSTRUMENTAL METH	6238173277 Good
Anjana.P	MSc Chemistry	2nd PG	21PG09	anjanapsby@gmail.com INSTRUMENTAL METHC	9074326613 Good
Ebin Suresh	M Sc Chemistry	2nd PG	21PG02	ebinsuresh08@gmail.cor INSTRUMENTAL METH	7736712171 Useful for my career.
Reeba Thyagarajan	Chemistry	2nd PG	21pg14	reebatreeba@gmail.com INSTRUMENTAL METH(09895247208	5247208 Good
Christy Gigi	Chemistry	2nd PG	21PG11	christygigi148@gmail.cor INSTRUMENTAL METH	8943825958 Nice
Akhila Johny	Chemistry	2nd PG	PG2107	akhilajohny001@gmail.cc INSTRUMENTAL METHO	5238576071 Good
Susmin A.J	Chemistry	2nd PG	21pg18	susminjackson@gmail.cc SAFETY,MANAGEMENT	9497564036 This course makes as to inculcate learning by doing experience
JITHIN JAYAN	MSC CHEMISTRY	1st PG	22 PG559	jithinjayan5656@gmail.cc SAFETY,MANAGEMENT	9383443277 Not so good but its good
Gopika G	Msc chemistry	1st PG	22PG557	gopikag1909@gmail.corr SAFETY, MANAGEMENT	7994536497 Good
Chithra c s	Msc chemistry	1st PG	22PG 555	chithraanjalisunil2000@g SAFETY,MANAGEMENT	9848157634 Good
Aswathy v s	Msc chemistry	1st PG	22PG 554	aswathyvs2001@gmail.c SAFETY,MANAGEMENT	7593071281 Good
ARDRA M ANIL	MSc CHEMISTRY	1st PG	22PG 553	ardramanil1210@gmail.c SAFETY,MANAGEMENT	9495434034 Good
Anil poly	MSc chemistry	1st PG	22 PG 552	anilpoly123@gmail.com SAFETY,MANAGEMENT	9946524520 Good
SREYAKK	Msc chemistry	1st PG	22PG 562	sreyakk645@gmail.com SAFETY,MANAGEMENT	9446047916 Good
Delecia Antony	MSc chemistry	1st PG	22PG 556	deleciaantony2001@gmk SAFETY,MANAGEMENT	8111876168 Good
Abin Baby	Msc CHEMISTRY	1st PG	22PG551	babyabin21@gmail.com SAFETY,MANAGEMENT	9539388178 Excellent
Christy Sebastian	MSc Chemistry	2nd PG	21PG01	christysebastian0411@gr INSTRUMENTAL METHI	8589054364 Very good and informative
Harilal C.S	M.Sc Chemistry	2nd PG	21PG03	harilalcschittet111@gmai INSTRUMENTAL METH	9744532696 Phenomenal class
Amulya Elizabeth Wilson Chemistr	son Chemistry	2nd PG	21pg08	amulyawilson416@gmail INSTRUMENTAL METH	9656869416 Nice
Sreelakshmi Sudhakaran Chemistr	ran Chemistry	2nd PG	21pg16	sreelakshmis33333@gm INSTRUMENTAL METHC	8089504098 Good one
JAYAKRISHNAN V	Chemistry	2nd PG	21PG04	jayakrishnanv93289@gm INSTRUMENTAL METHI	7025310032 Good
Sebin Sebastian	Chemistry	2nd PG	21PG06	sebinsebastian175@gme INSTRUMENTAL METH	6238242032 Nice
Theresa Mathew	Chemistry	2nd PG	21PG19	theresamathew11696@g INSTRUMENTAL METHC	9207083801 Very informative course
KAVYA M PRAMOD	MSC. CHEMISTRY	2nd PG	21PG13	Kavyampramod72@gma INSTRUMENTAL METH	9400280278 Good
Sandra Ann Kunju	MSc Chemistry	2nd PG	21PG15	sandraannkunju2000@gi INSTRUMENTAL METHK	9746936518 Good
Geethu Krishnan J	Chemistry	2nd PG	21pg12	krishnangeethu566@gm: INSTRUMENTAL METH(9645115926 Good

DEVA MATHA COLLEGE KURAVILANGAD Re-Accredited with 'A' Grade (CGPA 3.23) by NAAC in 2017

Affiliated to Mahatma Gandhi University, Kottayam

Website: www.devamatha.ac.in, E-Mail: principaldmck@gmail.com



Certificate

This is to certify that has successfully completed the Add-on Programme titled Instrumental Methods of Analysis (DMCK/ SFCHEM/AD 28/2022) conducted by the Department of Chemistry (SF), Deva Matha College Kuravilangad during the academic year 2022-23 with 'A' grade.

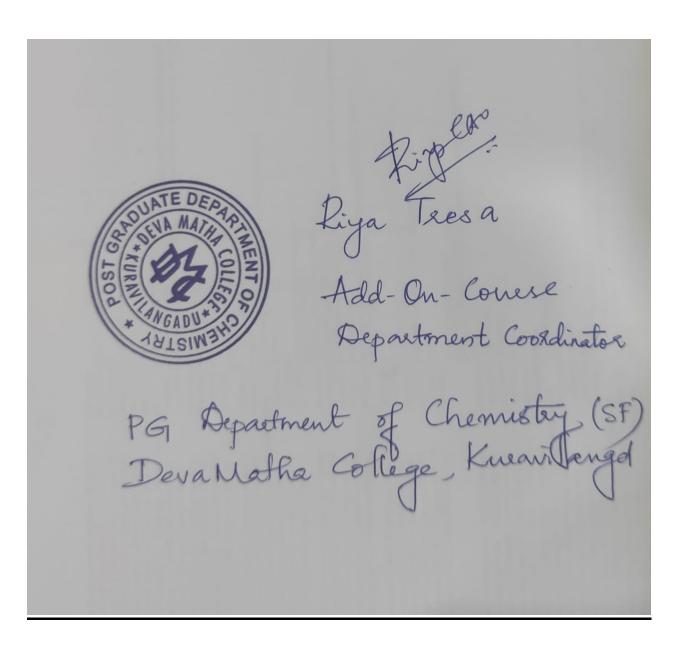
Kuravilangad 31-03-2023

Certificate No:

Ms. Riya Tresa Programme Co-ordinator

Dr. Brincy Mathew General Co-ordinator

Dr. Sunil C. Mathew Principal



Bring Methel

Dr. Brincy Mathew Add-on Course General Coordinator



Principal
Deva Matha College
Kuravilangad - 686 633