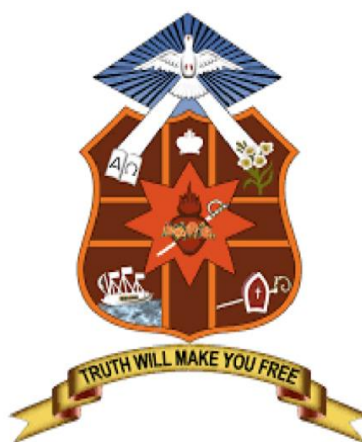


PG DEPARTMENT OF CHEMISTRY
DEVA MATHA COLLEGE, KURAVILANGAD

Affiliated to Mahatma Gandhi University, Kottayam



REPORT
ON
ADD-ON COURSE
Instrumental Methods of Analysis

- (DMCK/ SFCHEM/AD 15/2023)

Academic Year: 2023-2024

Brochure

Academic Year	: 2023-2024
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	: 4th Dec 2023- 8th Dec 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	:12
Number of Students Completed the Programme	:12

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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 4th Dec 2023- 8th Dec 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. 12 students from our II 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. ABIN BABY
2. ANIL POLY
3. ARDRA M ANIL
4. ASWATHY V S
5. CHITRA C S
6. DELECIA ANTONY
7. GOPIKA G
8. JISNA SAJI
9. JITHIN JAYAN
10. KRISHNAPRIYA M
11. SANDRA MARIYA
12. SREYA K K

PG DEPARTMENT OF CHEMISTRY (AY: 2023-2024)Course title

INSTRUMENTAL METHODS OF ANALYSIS

Sl no.	Adm no.	Name of the student	Department	class	4/12/23	5/12/23	6/12/23	7/12/23	8/12/23
1	2846	ABIN BABY	MSc Chemistry	II PG	x	x	x	x	x
2	2839	ANIL POLY	MSc Chemistry	II PG	x	x	x	x	x
3	2722	ARDRA M ANIL	MSc Chemistry	II PG	x	x	x	x	x
4	2840	ASWATHY V S	MSc Chemistry	II PG	x	x	x	x	x
5	2836	CHITRA C S	MSc Chemistry	II PG	x	x	x	x	x
6	2819	DELECIA ANTONY	MSc Chemistry	II PG	x	x	x	x	x
7	2841	GOPIKA G	MSc Chemistry	II PG	x	x	x	x	x
8	2753	JISNA SAJI	MSc Chemistry	II PG	x	x	x	x	x
9	2848	JITHIN JAYAN	MSc Chemistry	II PG	x	x	x	x	x
10	2845	KRISHNAPRIYA M	MSc Chemistry	II PG	x	x	x	x	x
11	2803	SANDRA MARIYA	MSc Chemistry	II PG	x	x	x	x	x
12	2850	SREYA K K	MSc Chemistry	II PG	x	x	x	x	x





PG DEPARTMENT OF CHEMISTRY (AY: 2023-2024)Course title

INSTRUMENTAL METHODS OF ANALYSIS

Sl no.	Adm no.	Name of the student	Department	class	GRADE
1	2846	ABIN BABY	MSc Chemistry	II PG	A
2	2839	ANIL POLY	MSc Chemistry	II PG	A
3	2722	ARDRA M ANIL	MSc Chemistry	II PG	A
4	2840	ASWATHY V S	MSc Chemistry	II PG	A
5	2836	CHITRA C S	MSc Chemistry	II PG	A
6	2819	DELECIA ANTONY	MSc Chemistry	II PG	A
7	2841	GOPIKA G	MSc Chemistry	II PG	A
8	2753	JISNA SAJI	MSc Chemistry	II PG	A
9	2848	JITHIN JAYAN	MSc Chemistry	II PG	A
10	2845	KRISHNAPRIYA M	MSc Chemistry	II PG	A
11	2803	SANDRA MARIYA	MSc Chemistry	II PG	A
12	2850	SREYA K K	MSc Chemistry	II PG	A



~~Riya~~
Riya Teesa

Add-On-Course
Department Coordinator

PG Department of Chemistry (SF)
Deva Matha College, Kuvempu, Bangalore