

PG DEPARTMENT OF CHEMISTRY
DEVA MATHA COLLEGE, KURAVILANGAD

Affiliated to Mahatma Gandhi University, Kottayam



SYLLABUS

ON

ADD-ON COURSE

**CHEMICAL LAB SAFETY, MANAGEMENT AND SOME
ANALYTICAL APPLICATIONS IN CHEMISTRY**

(DMCK/ SFCHEM/AD 27/2022)

Academic Year: 2022-2023

Brochure



DEVA MATHA COLLEGE KURAVILANGAD

DEPARTMENT OF SELF FINANCE CHEMISTRY PG

Add on Courses offered for Students : 2022-2023

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

Course Coordinator : Ms. Riya Tresa



Academic Year	: 2022-2023
Title	: CHEMICAL LAB SAFETY, MANAGEMENT AND SOME ANALYTICAL APPLICATIONS IN CHEMISTRY
Instructional Hours	: 30 Hours
Duration	: 2 months
Mode of Instruction	: Offline
Intake Capacity	: 25 students
Eligibility	: Plus two

Beneficiaries

: I PG students

Course Objectives

1. To introduce good lab practices, lab safety.
2. To introduce awareness of waste disposal managements.
3. To introduce basic non-instrumental laboratory techniques.
4. To introduce basic instrumental laboratory techniques.

Module 1 (10 Hours)

Good lab practices, lab safety, method of storing chemicals, solvents and glassware, procedures and maintenance of stock, purchase and distribution registers; Data analysis - MS Office; Literature – Scifinder.

Module 2 (10 Hours)

Waste disposal and management methods.

Module 3 (10 Hours)

Analytical applications in chemistry - pesticide analysis, water analysis and purification techniques, to find out the content of acids in citrus fruits.

References

1. Laboratory Waste Management: A Guidebook by ACS Task Force on Laboratory Waste Management, ACS Miscellaneous, **1994**
2. Margaret-Ann Armour, Hazardous Laboratory Chemicals Disposal Guide, 2nd Edition, **1996**
3. Svehla, G: Vogel's qualitative inorganic analysis, 7th Edition, Prentice Hall, **1996**
4. Vogel , A.I., Tatchell, A.R., Furnis , B.S., Hannaford , A.J., Smith, P.W.G., Vogel's Practical Organic Chemistry, 5th edition, Pearson education Ltd, **1996**

Assessment Procedure

Descriptive examination

Grading

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



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