

P G DEPARTMENT OF CHEMISTRY (SF)
DEVA MATHA COLLEGE, KURAVILANGAD

Affiliated to Mahatma Gandhi University, Kottayam



REPORT

ADD-ON COURSE

In

CHEMISTRY- INSTRUMENTATION AND ITS APPLICATIONS

DMCK/ SFCHEM /AD 31/2021

Academic Year 2021-22

ADD-ON COURSE REPORT

Academic Year: 2021-22

Dates: 14 Feb 2022-19 Feb2022

Beneficiaries: II PG Chemistry

Number of teachers coordinated: 3

Number of Students participated: 24

An add-on course was organized by the PG Department of Chemistry, Deva Matha College Kuravilangad from 14-19th February 2022 on the topic “**CHEMISTRY – INSTRUMENTATION AND ITS APPLICATIONS**”. 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. An industrial visit to Hindustan Organic Chemicals Limited,Ernakulam was done as the part of this course. 24 students from our II PG completed this course. An examination was conducted after the course and the certificates were distributed.

DEVA MATHA COLLEGE KURAVILANGAD

ADD-ON COURSE FOR THE AY 2021-22

Title: CHEMISTRY- INSTRUMENTATION AND ITS APPLICATIONS
(DMCK/SFCHEM/AD31/2021)

Instructional Hours: 30 hrs

Duration: 2 Months

Mode of Instruction: Offline

Intake Capacity: 25 students

Eligibility: BSc Chemistry

Course Objectives

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

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)

Surface Area Analyser -BET; Diffraction techniques- XRD.

Module 4 (5 Hours)

Industrial visit

References

1. D.A. Skoog and D.M West, Principles of Instrumental Analysis, 2nd Edn., Saunders college, Philadelphia, 1980.
2. Pecksock, Shields, Carrns and Mc William, Modern Methods of Chemical Analysis, John Wiley, 2nd Edn., 1976.H.H. Willard , L.L. Merrit, J.A. Dean and F.A. Settle, Instrumental Methods of Analysis, D, Van Nonstrand, N.Y, 1981.
3. F.W. Fifield and D. Kealey, Principles and Practice of Analytical Chemistry, 2nd Edn., International Book Company, London, 1983.

Course outcome

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

GRADING

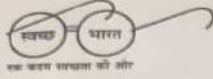
5 point scale (A+, A, B, C, FAILED)

Sl.No.	Reg. no.	Name	Department	14/02/22	15/02/22	16/02/22	17/02/22	18/02/22	19/02/22	Remarks
1	200011009858	AISWARYA K J	MSc CHEMISTRY(S.F)	X	X	X	X	X	X	<i>[Signature]</i>
2	200011009859	AJIN THOMAS	MSc CHEMISTRY(S.F)	X	X	X	X	X	X	<i>[Signature]</i>
3	200011009860	AKSHAYA TOMY	MSc CHEMISTRY(S.F)	X	X	X	X	X	X	<i>[Signature]</i>
4	200011009861	AMALA JOY	MSc CHEMISTRY(S.F)	X	X	X	X	X	X	<i>[Signature]</i>
5	200011009862	AMALA MATHEW	MSc CHEMISTRY(S.F)	X	X	X	X	X	X	<i>[Signature]</i>
6	200011009863	ANCY V T	MSc CHEMISTRY(S.F)	X	X	X	X	X	X	<i>[Signature]</i>
7	200011009864	ANJU K V	MSc CHEMISTRY(S.F)	X	X	X	X	X	X	<i>[Signature]</i>
8	200011009865	ANJUSREE RAJAN	MSc CHEMISTRY(S.F)	X	X	X	X	X	X	<i>[Signature]</i>
9	200011009866	ANUJA PREM	MSc CHEMISTRY(S.F)	X	X	X	X	X	X	<i>[Signature]</i>
10	200011009867	APARNA P	MSc CHEMISTRY(S.F)	X	X	X	X	X	X	<i>[Signature]</i>
11	200011009868	ARCHANA U K	MSc CHEMISTRY(S.F)	X	X	X	X	X	X	<i>[Signature]</i>
12	200011009869	ARUNDHATHY VISWAMBHARAN	MSc CHEMISTRY(S.F)	X	X	X	X	X	X	<i>[Signature]</i>

Course Title: CHEMISTRY – INSTRUMENTATION AND ITS APPLICATIONS

13	200011009870	ASWIN RAJ	MSC CHEMISTRY(S.F)	X	X	X	X	X	X	X	X	X	X			
14	200011009872	HRIDHYA SURESH K	MSC CHEMISTRY(S.F)	X	X	X	X	X	X	X	X	X	X			
15	200011009873	JISNA C	MSC CHEMISTRY(S.F)	X	X	X	X	X	X	X	X	X	X			
16	200011009874	MARIYA JEBY	MSC CHEMISTRY(S.F)	X	X	X	X	X	X	X	X	X	X			
17	200011009875	NEELIMA ANAND	MSC CHEMISTRY(S.F)	X	X	X	X	X	X	X	X	X	X			
18	200011009876	NEENU THOMAS	MSC CHEMISTRY(S.F)	X	X	X	X	X	X	X	X	X	X			
19	200011009877	SIYA ROSE	MSC CHEMISTRY(S.F)	X	X	X	X	X	X	X	X	X	X			
20	200011009878	SNEHA GEORGE	MSC CHEMISTRY(S.F)	X	X	X	X	X	X	X	X	X	X			
21	200011009879	SREELAKSHMI A.P	MSC CHEMISTRY(S.F)	X	X	X	X	X	X	X	X	X	X			
22	200011009880	SREELAKSHMI SREENIVAS	MSC CHEMISTRY(S.F)	X	X	X	X	X	X	X	X	X	X			
23	200011009881	VAISHNAVY VENUGOPAL	MSC CHEMISTRY(S.F)	X	X	X	X	X	X	X	X	X	X			
24	200011009882	VISHNU A R	MSC CHEMISTRY(S.F)	X	X	X	X	X	X	X	X	X	X			





आई एस ओ 9001 / आई एस ओ 14001 युनिट
AN ISO 9001 / ISO 14001 UNIT

हिन्दुस्तान ऑर्गेनिक केमिकल्स लिमिटेड
HINDUSTAN ORGANIC CHEMICALS LIMITED
(भारत सरकार का उद्यम A Govt of India Enterprise)
अंबलमुगल : 682302 एरणाकुलम जिला, केरल, भारत
AMBALAMUGAL - 682 302 ERNAKULAM DIST., KERALA, INDIA
दूरभाष Phone : 0484- 2720911-13, 2720844
फैक्स Fax: (0484) 2720893, वेब Web. www.hoclindia.com
ई-मेल e-mail: kochi@hoclindia.com
CIN No. L 99999MH1960GO1011895

P&A/TRG/IV/2022

20.04.2022

TO WHOMSOEVER IT MAY CONCERN

Certified that the following second year students of MSc Chemistry, Postgraduate Dept of Chemistry, Devmatha College, Kuravilangad, Kottayam - 686633 have visited our organization as part of their Industrial Visit on 02nd April 2022 at 10.00 AM along with Teachers Mr. Roopesh Michael and Ms. Riya Tresa.

Sl No.	Name	Sl No.	Name
1	AISWARYA K J	13	JISNA C
2	AJIN THOMAS	14	MARIYA JEBY
3	AKSHAYA TOMY	15	NEELIMA ANAND
4	AMALA JOY	16	NEENU THOMAS
5	AMALA MATHEW	17	SIYA ROSE
6	ANJU K V	18	SNEHA GEORGE
7	AMJUSREE RAJAN	19	SREELAKSHMI A P
8	APARNA P	20	SREELAKSHMI SREENIVAS
9	ARCHANA U K	21	VAISHNAVY VENUGOPAL
10	ARUNDHATHY VISWAMBHARAN	22	VISHNU A R
11	ASWIN RAJ	23	ANCY V T
12	HRIDHYA SURESH K	24	ANUJA PREM



(एन वी रविदेव N V RAVIDEV)
महा प्रबन्धक (का एवं प्रशा)
GENERAL MANAGER (P&A)

निगमित कार्यालय : 4 वीं तल, वी टाइम्स स्क्वायर, सेक्टर-15, सीबीडी बेलापूर, नवी मुंबई - 400614
Corporate Office : 4th Floor, V Times Square, Sector 15, CBD Belapur, Navi Mumbai - 400614
Facebook : fb.me/hoclindia; twitter: twitter.com/organic_ltd

CHEMISTRY

Course Title:- CHEMISTRY - Instrumentation and its Applications
 [DMCK/SFCHEM/AD 31/2021]

Sl.No.	Class no.	Name	Department	Grade	Remarks
1	200011009858	AISWARYA K J	MSc CHEMISTRY(S.F)	A*	<i>[Signature]</i>
2	200011009859	AJIN THOMAS	MSc CHEMISTRY(S.F)	A*	<i>[Signature]</i>
3	200011009860	AKSHAYA TOMY	MSc CHEMISTRY(S.F)	A*	<i>[Signature]</i>
4	200011009861	AMALA JOY	MSc CHEMISTRY(S.F)	A*	<i>[Signature]</i>
5	200011009862	AMALA MATHEW	MSc CHEMISTRY(S.F)	A*	<i>[Signature]</i>
6	200011009863	ANCY V T	MSc CHEMISTRY(S.F)	A*	<i>[Signature]</i>
7	200011009864	ANJU K V	MSc CHEMISTRY(S.F)	A*	<i>[Signature]</i>
8	200011009865	ANJUSREE RAJAN	MSc CHEMISTRY(S.F)	A*	<i>[Signature]</i>
9	200011009866	ANUJA PREM	MSc CHEMISTRY(S.F)	A*	<i>[Signature]</i>
10	200011009867	APARNA P	MSc CHEMISTRY(S.F)	A*	<i>[Signature]</i>
11	200011009868	ARCHANA U K	MSc CHEMISTRY(S.F)	A*	<i>[Signature]</i>
12	200011009869	ARUNDHATHY VISWAMBHARAN	MSc CHEMISTRY(S.F)	A*	<i>[Signature]</i>
13	200011009870	ASWIN RAJ	MSc CHEMISTRY(S.F)	A*	<i>[Signature]</i>
14	200011009872	HRIDYA SURESH K	MSc CHEMISTRY(S.F)	A*	<i>[Signature]</i>
15	200011009873	JISNA C	MSc CHEMISTRY(S.F)	A*	<i>[Signature]</i>
16	200011009874	MARIYA JEBY	MSc CHEMISTRY(S.F)	A*	<i>[Signature]</i>
17	200011009875	NEELIMA ANAND	MSc CHEMISTRY(S.F)	A*	<i>[Signature]</i>
18	200011009876	NEENU THOMAS	MSc CHEMISTRY(S.F)	A*	<i>[Signature]</i>
19	200011009877	SIYA ROSE	MSc CHEMISTRY(S.F)	A*	<i>[Signature]</i>
20	200011009878	SNEHA GEORGE	MSc CHEMISTRY(S.F)	A*	<i>[Signature]</i>
21	200011009879	SREELAKSHMI A P	MSc CHEMISTRY(S.F)	A*	<i>[Signature]</i>
22	200011009880	SREELAKSHMI SREENIVAS	MSc CHEMISTRY(S.F)	A*	<i>[Signature]</i>
23	200011009881	VAISHNAVY VENUGOPAL	MSc CHEMISTRY(S.F)	A*	<i>[Signature]</i>
24	200011009882	VISHNU A R	MSc CHEMISTRY(S.F)	A*	<i>[Signature]</i>

DEVA MATHA COLLEGE, KURAVILANGAD

Re-Accredited by NAAC with 'A' grade

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



CERTIFICATE

This is to certify thathas successfully completed the Add-on course titled : **Chemistry – Instrumentation and its Applications DMCK/SFCHEM/AD31/2021** conducted by Post Graduate Department of Chemistry, Deva Matha College, Kuravilangad during the academic year 2021-2022 with 'A+' grade.

Ms. Riya Tresa
Course Co-ordinator

Dr. Brincy Mathew
General Co-ordinator

Dr. Sunil C. Mathew
Principal

Kuravilangad
01-03-2022

ADD-ON-COURSE

Feedback form

 tresariya27@gmail.com (not shared)
[Switch account](#)



* Required

Name of the student *

Your answer

Department *

Your answer

Class *

1st PG

2nd PG

Class no. *

Your answer

Email ID *

Your answer

Course title *

CHEMISTRY AND LIFE

CHEMISTRY- INSTRUMENTATION
AND ITS APPLICATIONS

Contact number *

Your answer

Feedback *

Course title *

CHEMISTRY AND LIFE

CHEMISTRY- INSTRUMENTATION
AND ITS APPLICATIONS

Contact number *

Your answer

Feedback *

Your answer

Submit

Clear form

Never submit passwords through Google Forms.

This content is neither created nor endorsed by
Google. [Report Abuse](#) - [Terms of Service](#) - [Privacy
Policy](#)



Google Forms



Untitled form (Responses)

Form Responses 1

	B	C	D	E	F	G	H	I
1	Name of the student	Department	Class	Class no.	Email ID	Course title	Contact number	Feedback
2	Amala Mathew	Msc chemistry	2nd PG	20PG05	amalmathew909@g	CHEMISTRY- INSTRUI	8606403341	Its very useful course.
3	Reeba Thyagarajan	Chemistry	1st PG	21PG14	reebatreeba@gmail.c	CHEMISTRY AND LIFE	09895247208	It is a worth full one...
4	VISHNU A R	Chemistry	2nd PG		25 vishualappatt@gmail.	CHEMISTRY- INSTRUI	8129225893	The course was really
5	Vaishnavy Venugopal	MSc chemistry PG	2nd PG	20PG24	vaishnavyvenu99@gn	CHEMISTRY- INSTRUI	9961072595	Good
6	Amulya Elizabeth wils	Msc chemistry	1st PG	21PG08	amulyawilson416@g	CHEMISTRY AND LIFE	9656869416	Interesting
7	Sreelakshmi Sreeniva	Chemistry	2nd PG	20PG023	sreelakshmisreenivas	CHEMISTRY- INSTRUI	9567557927	Excellent
8	Archana U K	Chemistry	2nd PG		11 archanakarthikayan9f	CHEMISTRY- INSTRUI	+917025534310	Informative and intere
9	Anjusree Rajan	Msc chemistry	2nd PG	20PG08	anjusreerajan06@gm.	CHEMISTRY- INSTRUI	9526999484	Excellent
10	Jisna c	Chemistry	2nd PG	20PG16	jisna338@gmail.com	CHEMISTRY- INSTRUI	9747797616	Excellent
11	Neelima anand	Msc chemistry	2nd PG	20pg18	neelimaanand1@gma	CHEMISTRY- INSTRUI	8921183157	Good
12	Stephy saji	MSC Chemistry	1st PG	21PG17	Stephykadackal1D@g	CHEMISTRY AND LIFE	6238173277	Very interesting
13	Anjana.P	Msc Chemistry	1st PG	21PG09	anjanapsby@gmail.cc	CHEMISTRY AND LIFE	9074326613	Very interesting
14	KAVYA M PRAMOD	Chemistry	1st PG	21PG13	kavyampramod10@g	CHEMISTRY AND LIFE	9400280278	Good
15								It was an amazing exp
	Sandra Ann Kunju	Chemistry	1st PG	21PG15	sandraannkunju2000j	CHEMISTRY AND LIFE	9746936518	We prepared carbon n
16	SREELAKSHMI A P	MSc.Chemistry	2nd PG	20PG22	sreepradeepan@gma	CHEMISTRY- INSTRUI	8156983953	Good
17	Ebin auresh	M.Sc Chemistry	1st PG	21PG02	ebinsuresh08@gmail.	CHEMISTRY AND LIFE	7736712171	Really helpful as a che
18	Arya P J	MSc Chemistry	1st PG	21pg10	aryajayan.puthoor@g	CHEMISTRY AND LIFE	9074746792	Interesting
19	Ajin Thomas	CHEMISTRY	2nd PG	02	maryajin125@gmail.c	CHEMISTRY- INSTRUI	9946286506	Good
20	Aiswarya KJ	Chemistry	2nd PG	20PG01	aiswaryajayan1999@	CHEMISTRY- INSTRUI	9061662463	Excellent
21	Christy Giji	Chemistry	1st PG	21PG11	christygiji148@gmail	CHEMISTRY AND LIFE	8943825958	It was amazing worki
22	ASWIN RAJ	CHEMISTRY	2nd PG		1607 aswinraj158@gmail.c	CHEMISTRY- INSTRUI	9947551181	We prepared carbon n
23	Harilal C S	Chemistry	1st PG	21PG03	harilalcschittet111@g	CHEMISTRY AND LIFE	9744532696	Excellent experience.
24	Neenu Thomas	MSc Chemistry	2nd PG	016	rosinthomas90@gmz	CHEMISTRY- INSTRUI	8086923757	It was amazing to wor
25	Sneha George	Chemistry	2nd PG	20PG21	snehageorge0007@g	CHEMISTRY- INSTRUI	9497567609	Very good class. Clasi
26	JAYAKRISHNAN V	M.sc chemistry	1st PG	21PG04	jayakrishnanv93289@	CHEMISTRY AND LIFE	7025310032	enjoyed the course a
27	Anju K V	Chemistry	2nd PG	007	anjukicy53@gmail.coi	CHEMISTRY- INSTRUI	7510766095	It's very interesting a
28	Akhila Johny	MSc chemistry	1st PG		1 akhilajohny001@gma	CHEMISTRY AND LIFE	6238576071	Each and every thing I
29	Sebin Sebastian	Chemistry	1st PG	21PG06	sebinsebastian175@x	CHEMISTRY AND LIFE	+918304068625	Good
30	HRIDHYA SURESH K	Msc. Chemistry	2nd PG	20PG15	hridhyasuresh1999@i	CHEMISTRY- INSTRUI	9072914715	Very interesting class.
31	Mariya Jeby	Chemistry	2nd PG	20Pg17	maryiajeby99@gmail.	CHEMISTRY- INSTRUI	8078762115	Excellent
32	Geethu Krishnan J	Msc Chemistry	1st PG	21pg12	krishnangeethu566@	CHEMISTRY AND LIFE	9645115926	—
33	Amala Joy	MSc Chemistry	2nd PG	20PG04	ajoy50074@gmail.co	CHEMISTRY- INSTRUI	8301942448	Excellent classes
34	Sreelakshmi Sudhaka	Chemistry	1st PG	21PG16	sreelakshmi33333@	CHEMISTRY AND LIFE	8089504098	Good
35	Ancy V T	Chemistry	2nd PG	006	ancyv1999@gmail.c	CHEMISTRY- INSTRUI	7558819037	Good
36	Susmin A.J	m.sc chemistry	1st PG		18 susminjackson@gma	CHEMISTRY AND LIFE	9497564036	It was great experienc
37	Theresa Mathew	Msc. Chemistry	1st PG		19 theresamathew1169f	CHEMISTRY AND LIFE	9207083801	It was an awesome ex
38	Lopaz Lucka Edathil	Chemistry	1st PG	21PG05	lopazlucka@gmail.co	CHEMISTRY AND LIFE	+919846493044	It is a quite an interest
39	Arunadhathy Viswambi	Chemistry	2nd PG	20pg12	arundhathyv00@gm.	CHEMISTRY- INSTRUI	6235121092	Excellent
40	Siya Rose	Msc Chemistry	2nd PG		20 siyarose2000@gmail.	CHEMISTRY- INSTRUI	9446546404	—
41	Anuja Prem	Chemistry	2nd PG		9 98anujaprem@gmail.	CHEMISTRY- INSTRUI	9605807583	It is very informativ
42	Akshaya Tony	MSc chemistry	2nd PG	20PG03	akshayatony290@gn	CHEMISTRY- INSTRUI	7902685161	Good
43	Christy Sebastian	MSc chemistry	1st PG	21PG01	christysebastian0411	CHEMISTRY AND LIFE	8589054364	Excellent
44	Apama p	Msc chemistry	2nd PG	20PG10	spamajanardhanan94	CHEMISTRY- INSTRUI	9400698404	—

Principals Mathew

Principal
Deva Matha College
Kuravilangad - 686 633



Brincy Mathew

Dr. Brincy Mathew

Add-on Course General Co-Ordinator