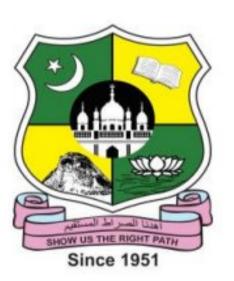
#### A One-week Certificate Programme on

#### SPECTROSCOPIC AND CHROMATOGRAPHIC TECHNIQUES

(A Hands-on Training)

2<sup>nd</sup> Batch

09.02.2024 to 15.02.2024



#### JAMAL INSTRUMENTATION CENTRE (JAMIC)

JAMAL MOHAMED COLLEGE (Autonomous)

Accredited with A++ Grade by NAAC (4<sup>th</sup> Cycle with CGPA 3.69 out of 4.0)

(Affiliated to Bharathidasan University)

Tiruchirappalli - 620 020



Accredited with A++ Grade by NAAC (4<sup>th</sup> Cycle with CGPA 3.69 out of 4.0)

(Affiliated to Bharathidasan University)

#### **TIRUCHIRAPPALLI-20**

Name of the Department: Jamal Instrumentation Centre

Type of the Programme: Certificate Programme

Title of the Programme: A one-week certificate programme on spectroscopic

and chromatographic techniques

Venue : Jamal Instrumentation Centre

Dates : 09.02.2024 to 15.02.2024

### Report of 2<sup>nd</sup> Batch of A one-week Certificate Programme on SPECTROSCOPIC AND CHROMATOGRAPHIC TECHNIQUES

Jamal Instrumentation Centre (JAMIC) is funded by the Department of Science and Technology, Government of India, under the Scheme - Fund for Improvement of Science and Technology Infrastructure in Higher Education Institutions (DST-FIST) in 2019. A sum of Rupees 110 Lakhs was sanctioned under the above scheme. Through the Scheme, the Centre JAMIC was established and equipped with UV-Visible spectrophotometer, Infrared Spectrometer, Raman Spectrometer, Atomic Absorption Spectrophotometer and High-Performance Liquid Chromatography instrument. In addition to that, the College Management has extended generously towards the complete development of the Centre.

A one-week certificate Programme on Spectroscopic and Chromatographic Techniques (A Hands-on Training) was organized for the second time by the Jamal Instrumentation Centre (JAMIC) from 09.02.2024 to 15.02.2024. The programme commenced with invoking blessings of the Almighty by Dr. M Anwar Sathiq, Associate Professor of Chemistry, Dr. M. Purushothaman, Coordinator of JAMIC and Associate Professor of Chemistry welcomed the gathering. The programme was inaugurated by Dr. D.I. George Amalarathinam, Vice Principal Jamal Mohamed College, Sir emphasised the importance of Spectroscopic and Chromatographic techniques in research perspectives. Dr. I. Joseph Antony Jerald, Head, Department of zoology, Jamal Mohamed College appreciated the efforts of JAMIC and motivated the Resource

persons and participants for their involvement and purposeful investment in enriching their scientific skills at the sacred portals of Jamal. The theme of the programme was highlighted by Dr. P. Rajasekar, Organizing Secretary and Assistant Professor of Zoology. Finally, Mr. J. Umar Malik, Assistant Professor of Physics proposed a vote of thanks.

The Research scholars and students in total 80 participants from UAE, C Abdul Hakeem College, Melvisaram, JJ College of Arts and Science, Pudukottai, Marudhupandiyar College, Vallam, Arignar Anna Arts and Science College, Musiri, Vellalar College, Erode, Nehru Memorial College, Puthanampatti, Government Arts and Science College, Perambalur, A.V.V.M Sri Pushpam College, Rajah Serfoji Government College, Tanjore, Holy Cross College, Trichy, Kings College of Engineering, Pudukottai, Excel Engineering College, Namakkal and our own College (JMC) as well actively participated in the programme.

The total participants were segregated into five different groups and five parallel sessions conducted through clustering system with two sessions per day. Each day, participants were able to gain a new learning through sample preparation, instrument operation, data acquisition and most importantly interpretation of results. The Handson Training on UV-Visible Spectrophotometer was handled by Dr. M. Anwar Sathiq, Associate Professor of Chemistry, Dr. N. Mujafarkani and Dr. A. Asrar Ahamed, Assistant Professors of Chemistry. Principle of Attenuated Total Reflectance technique, sample preparation and interpretation of IR was handled by Dr. K. Loganathan and Dr. M. Purushothaman, Associate Professors of Chemistry. Fourier Transform technique, Michelson Interferometer, Optical Section of Raman Spectrometer was clearly explained by Mr. J. Umar Malik, Assistant Professor of Physics and Dr. A. Abbas Manthiri, Associate Professor of Physics highlighted the sample recording and interpretation of results. Stepwise sample preparation, principles and interpretation of results of Atomic Absorption Spectrophotometer was handled by Dr. A. Sadiq Bukhari, Associate Professor of Zoology and Dr. S. Mohamed Hussain, Assistant Professor of Zoology. Principles, working procedure and sample application and interpretations of results of High-Performance Liquid Chromatography was emphasised by Dr. N. Ahamed Sherif and Dr. R. Syed Moideen, Assistant Professors of Botany. All

the participants appreciated the strenuous efforts of all the resource persons for meticulous planning, arrangement of the programme, enthusiasm and interest of faculty members; they showed a manner of clear presentation of technical experience in this event. All the participants together with the faculty members have succeeded in their attempts to complete the training here, which helped to motivate young minds and to create a scientific temper among Students community. On the final day of the programme, all the participants were allowed to analyse their samples and get consultation with the experts at every chamber of the instrument free of cost. This was very much appreciated by all the participants. Twenty-four samples were recorded for FT- Raman and thirty-one samples for FT- IR. As many as a record number of thirty-one samples for FT-IR and twenty-one samples for FT-Raman were analysed free of cost and interpretation of the same were also made known to the beneficiaries.

On 15th February 2024, in the valedictory function, Dr. M. Purushothaman, Coordinator, JAMIC welcomed the gathering. The report of the hands-on training was narrated by Dr. P. Rajasekar, Organizing Secretary. Dr. S. Ismail Mohideen, Principal delivered the valedictory address. Hajee M. J. Jamal Mohamed sahib, Treasurer of our college management committee appreciated the efforts of participants and motivated their involvement and investment in enriching their scientific knowledge at Jamal and distributed the certificates to the participants. During the session Dr. R. Jahir Hussain, Bursar and HoD of mathematics and Dr. I. Joseph Antony Jerald, HoD of zoology graced the occasion. Finally, Dr. N. Ahamed Sherif, Assistant Professor of Botany proposed a vote of thanks. Prior to that, a few of the participants were allowed to share their feedback of the Hands-on Training and they registered that the programme was much beneficial: easy to understand the working principle, sample preparation, separation and spectrum recording along with interpretation of results which they felt very unique in Jamal and applauded the program.

## Programme Outcomes:

On successful completion of the programme, the participants were

- Experienced to handle the Standard operating procedures of UV-Visible, FT-IR, FT-Raman and Atomic Absorption spectroscopy and High-Performance Liquid Chromatography.
- Familiarized Sensitivity and caution to the optical systems, Data acquisition and interpretation of the results.
- Demonstrated, analysed spectral data and applied the matrix corrections in the analysis.
- Able to quantitate metal / metalloids in different matrices using Flame photometer.
- > Understood the role of various parameters of HPLC and trained to prepare and quantitate analytes.

Organizing Secretary

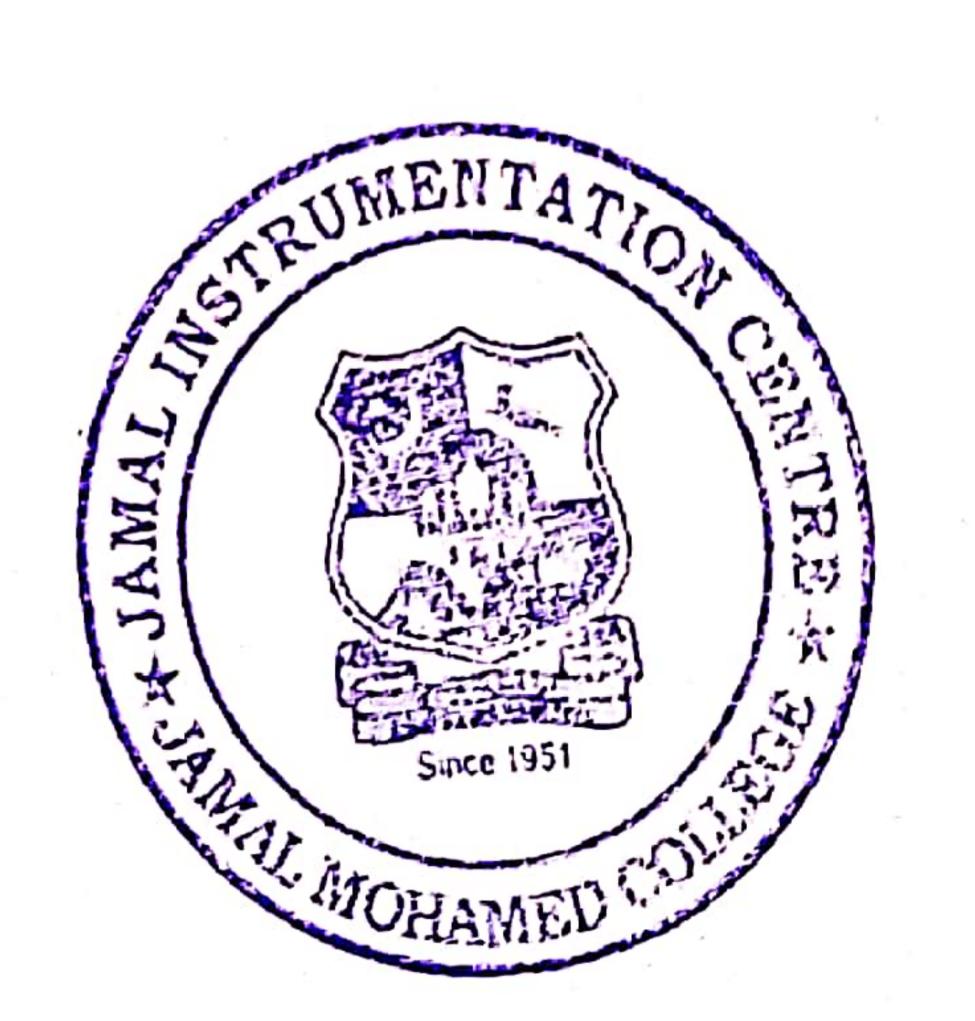
Coordinator

COORDINATOR

JAMAL INSTRUMENTATION CENTRE

JAMAL MOHAMED COLLEGE (Autonomous)

Tiruchirappalli - 620 020





Dr. M. Purushothaman, Coordinator, JAMIC welcomes the gathering

Dr. P. Rajasekar, Organizing Secretary highlights the theme of the Programme



Dr. D.I. George Amalarathinam, Vice Principal, Jamal Mohamed College inaugurates the programme



Dr. I. Joseph Antony Jerald, Head, Department of Zoology appreciates the efforts of JAMIC and the delegates

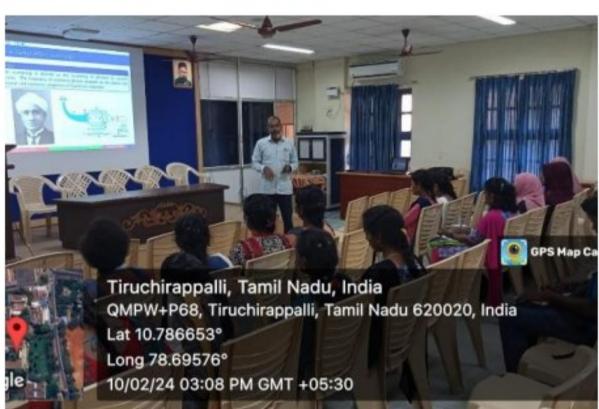


Mr. J. Umar Malik, Assistant Professor of Physics proposes a vote of thanks at the end of inauguration session.

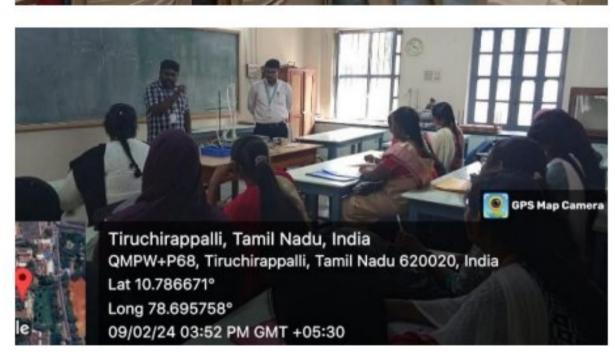


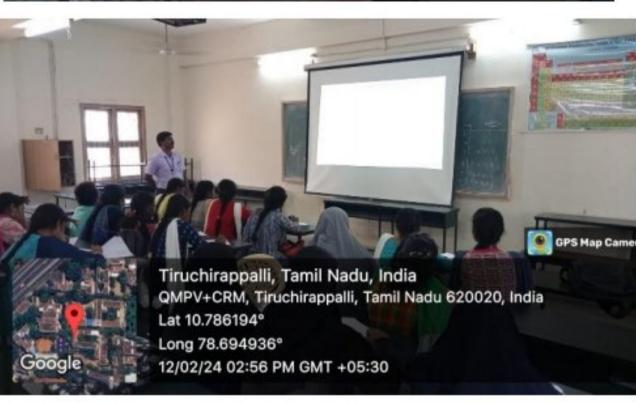














Glimpses of Instrument Training



Glimpses of Instrument Training



















Participants receving certificates from the Treasurer, Principal and other dignitaries



Treasure of our College offers felicitation



Principal of our College delivers presidential address



Participants sharing their views regarding the certificate programme



# JAMAL MOHAMED COLLEGE (Autonomous)

Accredited with A++ Grade by NAAC (4th Cycle) with CGPA 3.69 out of 4.0

(Affiliated to Bharathidasan University) TIRUCHIRAPPALLI - 620 020

2<sup>nd</sup> Batch of Training

One Week Certificate Programme On

# SPECTROSCOPIC AND CHROMATOGRAPHIC TECHNIQUES

(A Hands - On Training)

9th to 15th February 2024

organized by

# JAMAL INSTRUMENTATION CENTRE (JAMIC) (DST - FIST Sponsored)

ABOUT THE COLLEGE: Jamal Mohamed College, founded in 1951, is an Autonomous institution affiliated to the Bharathidasan University, Tiruchirappalli. The college is situated in the heart of Tiruchirappalli City. Over the period of 73 years, the college was able to scale greater heights and raise to the present status as a multi-faculty institution with 23 UG and 20 PG Programmes. Seventeen Departments of the college are approved Research Centres. The college has the strength of 12000 students.

JAMIC: The Jamai Instrumentation Centre (JAMIC) is funded by Department of Science & Technology, Government of India under FIST programme in 2019. This centre is equipped with UV-Visible spectrophotometer FT-IR Spectrometer, FT-Raman Spectrometer, Atomic Absorption Liquid Spectrophotometer and High Pressure Chromatography to enhance quality research in basic as well as Applied Sciences. The Facility is available for students, Scholars and Academicians in and around Tamilnadu State

About the Programme: This Programme is aiming to disseminate the knowledge on characterization by UV-Visible Spectroscopy, Infrared Spectroscopy, Raman Spectroscopy, Atomic Absorption Spectroscopy and Column Chromatography by applying high pressure through hands on training. It will be a platform for Post Graduate Students, Research Scholars, Academicians and Industrialists to understand the working principle, sample handling, nstrument operation and interpretation of results.

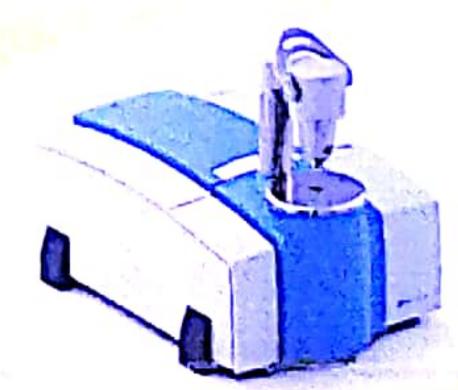


UV-visible Spectrophotometer Model: LAB INDIA 3000+

#### THE PROGRAMME COVERS

- **★** Theoretical Principle
- Sample preparation
- Handling of Instruments
- Spectrum Recording
- Data Aquisation & Interpretation

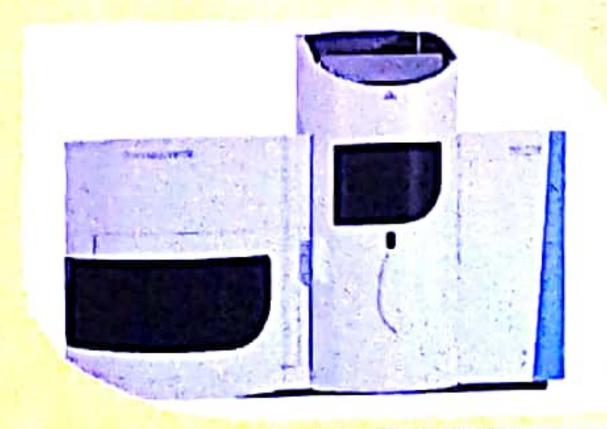
You can record spectrum for a sample free of cost



FT-IR Spectrometer Model: ALPHA II, Bruker



Account No :0467020000000009 Jamal Mohamed College IFSC: IOBA0000467



ATOMIC ABSORPTION SPECTROPHOTOMETER Model :ICE FIOS

Registration Fee Rs :1000/-Last date for Registration 05.02.2024





BINARY HPLC Model: Waters 1525

Course Timing: 2.30pm to 5.30pm

Registration Link

https://forms.gle/mxk7hxC8tnQXa1u17

**Organizing Secretary** Dr. P. RAJASEKAR Assistant Professor of Zoology

#### **Contact Details**

Mobile: +91 99438 22028 Mobile: +91 98944 19774

e-mail: rajasekar275@gmail.com

Co-ordinator Dr. M. PURUSHOTHAMAN

Associate Professor of Chemistry Jamal Instrumentation Centre



JAMAL MOHAMED COLLEGE (Autonomous)
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(Affiliated to Bharathidasan University)
Tiruchirappalli – 620 020

One Week Certificate Programme on

## Spectroscopic and Chromatographic Techniques

(A Hands-on Training)

From 09th to 15th February 2024

Organized by
JAMAL INSTRUMENTATION CENTRE
(DST-FIST SPONSORED)

Dear Sir / Madam,

Jamal Instrumentation Centre organizes a one-week certificate programme on spectroscopic and chromatographic techniques. The programme aims to disseminate the knowledge on characterization by UV-Visible Spectroscopy, Infrared Spectroscopy, Raman Spectroscopy, Atomic Absorption Spectroscopy and separation by High Pressure Liquid Chromatography (HPLC) through hands-on training. It will be a platform for understanding the working principle, sample handling, instrument operation and interpretation of results.

In this regard, kindly motivate your PG Students and Research Scholars to participate in the programme mentioned above.

Thanking you,

Tiruchirappalli-20 10.01.2024 Co-ordinator (0.1.2)

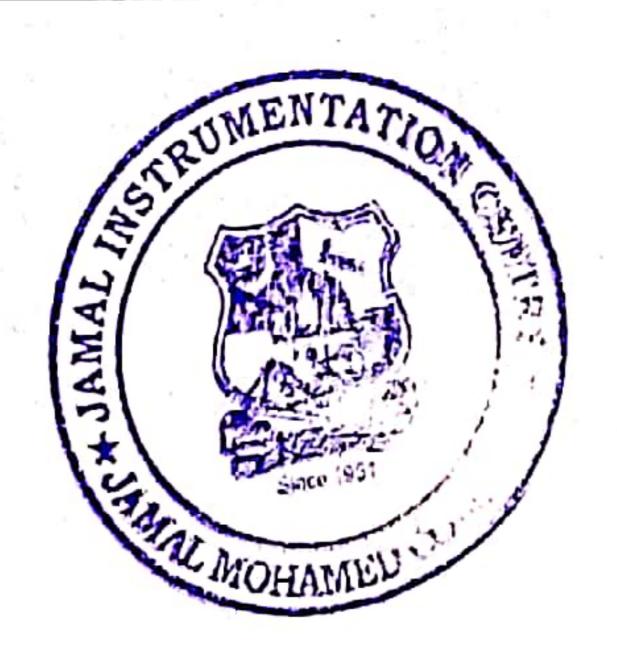
Dr. M. Purushothaman

Jamal Instrumentation Centre

Registration Link: https://forms.gle/mxk7hxC8tnQXa1u17

QR code for registration.





COORDINATOR

JAMAL INSTRUMENTATION CENTRE

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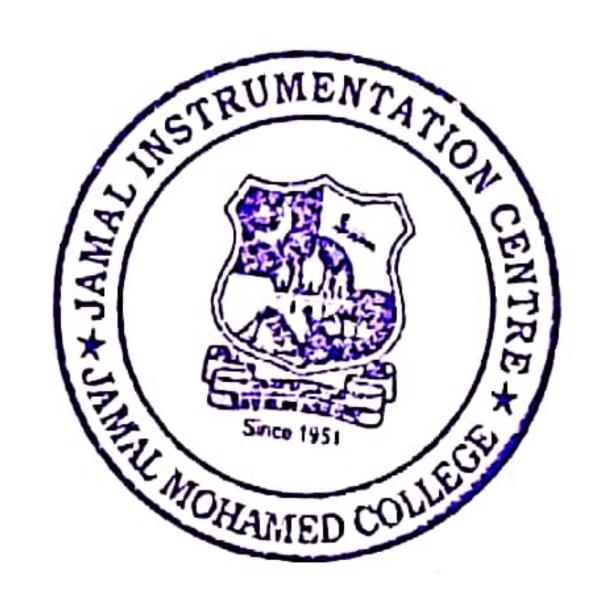
Tiruchirappalli - 620 020

# A One-week Certificate Programme on SPECTROSCOPIC AND CHROMATOGRAPHIC TECHNIQUES

(A Hands-on Training)

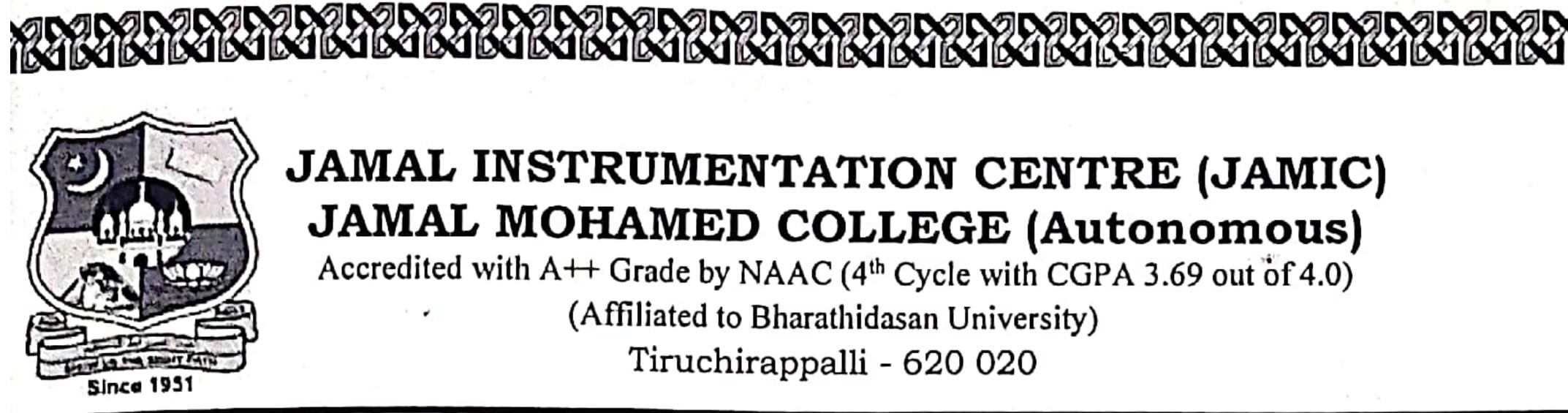
### **SCHEDULE**

No	Date	UV -Visible	FT-IR	FT Raman	AAS	HPLC		
1	09.02.2024	A	В	C	D	E		
2	10.02.2024	В	C	D	E	· <b>A</b>		
3	12.02.2024	C	D	E	A	В		
4	13.02.2024	D	E	A	В	C		
5	14.02.2024	E	A	$\mathbf{B}$	C	D		
6	15.02.2024		SAMPLE RECORDING					



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JAMAL MOHAMED COLLEGE (Autonomous)
Tiruchirappalli - 620-020

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(Affiliated to Bharathidasan University)

Tiruchirappalli - 620 020

A One-week Certificate Programme on SPECTROSCOPIC AND CHROMATOGRAPHIC TECHNIQUES (A Hands-on Training)

### INAUGURATION AGENDA

09.02.2024 @ 2.30 pm

Venue: Biotech - Gallery

Qirath

: Dr. M. Anwar Sathiq

Associate Professor of Chemistry

Welcome address

: Dr. M. Purushothaman

Coordinator, JAMIC

Associate Professor of Chemistry

Theme of the Workshop

: Dr. P. Rajasekar

Organising Secretary

Presidential address

: Dr. S. Ismail Mohideen

Principal

Felicitation

: Dr. A.K. Khaja Nazeemudeen, D.Litt. (USA)

Secretary & Correspondent

Hajee M.J. Jamal Mohamed

Treasurer

Dr. K. Abdus Samad

Assistant Secretary

Dr. K.N. Abdul Kader Nihal

Member & Hon. Director

Dr. D.I. George Amalarethinam

Vice - Principal

Dr. A. Ishaq Ahamed

Additional Vice- Principal

Dr. A.J. Haja Mohideen

Additional Vice- Principal

Dr. K.N. Mohamed Fazil

Director - Hostel Administration

Ms. J. Hajira Fathima

Director-Women Hostel

COORDINATOR JAMAL INSTRUMENTATION CENT JAMAL MOHAMED COLLEGE (Auton Tiruchirappalli - 620 03

Vote of Thanks

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(Affiliated to Bharathidasan University)

Tiruchirappalli - 620 020

# A One-week Certificate Programme on SPECTROSCOPIC AND CHROMATOGRAPHIC TECHNIQUES

(A Hands-on Training)
Registration form

S.	Name of the Participant and	Nama of the Callera	SIGNATURE
No	Class	Name of the College	
01	RAMYA M	Arignar Anna Government Arts	
	Phd Research scholar	College Musiri	with 10004
	Department of zoology		10/02/2027
02	KALPANA.R	Vellalar College for Women's	
	M.sc-Chemistry		form 1970/21
03	R.NABISSA BANU	Jamal Mohammed College	0 10/2/2
- 1	B.Sc biotechnology		Despor
04	A.ALMAS FATHIMA	Jamal Mohammed College	
	B.Sc biotechnology		A. Deros al
05	DHARSINI.M	Nehru Memorial College	<u> </u>
	M.sc-Zoology		M. Phaesiun
06	IMAYA.R	Nehru Memorial College	
	M.sc-Zoology		R. Juga.
07	YUVASHREE B	Jamal Mohammed College	
-1	M.sc-Chemistry	and a contege	12.11
08	POOJAKAVERI S	Jamal Mohammed College	. > 4000
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09	RESHMA THASNEEM A	Jamal Mohammed College	
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10	A.THASNEEM	Jamal Mohammed College	Thoisneun.
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11	AYISHA HASEENA.M	Jamal Mohammed College	
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12	PAVITHRA R	Jamal Mohammed College	
	M.sc-Chemistry	Januar Monaninica Conege	Kontra
13	R.BARANIKA	Jamal Mohammed College	
	M.sc-Chemistry	ournar ivionammed Conege	2.13
14	VANISHREE.P	A V V M Sri Pushpam College	710
	Phd Research scholar	(autonomous), poondi 613503	2 Smill
	Department of zoology	(autonomous), pooma 613303	1. Vm 1
12	G.VIDHYA SHREE	Holycross College Trichy	21
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	M.sc-Chemistry	Jamal Mohamed College	- 45 Jan.
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JAMAL INSTRUMENTATION CENTRE

JAMAL MOHAMED COLLEGE (Autonomous)

Tiruchirappalli - 620 020

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18	THIRIPURA SALINI S	Kings College of Engineering,	, /
•	Assistant Professor of	Punalkulam, Pudukkottai-	12 10 10 10 10 10 10 10 10 10 10 10 10 10
	chemistry	613303	KX O.
19	REVATHI.M	Excel Engineering	1
	Assistant Professor of physics	College(Autonomous), Namakkal	D.
		Assistant Professor of Physics	9
20	MARAGATHAMANI S	Excel Engineering	-
	Assistant Professor of	College(Autonomous),Namakkal	12 MOD.
	chemistry		0-1-0
21	SUGUNA.M	Arignar Anna Government Arts	11.6.01.60
	B.sc-Chemistry	College Musiri	M. Sugura
22	DEVI.S	Arignar Anna Government Arts	,
	B.sc-Chemistry	College Musiri	8. Dem'
23	KIRUTHIKA.R	Arignar Anna Government Arts	R:Kirithika
	B.sc-Chemistry	College Musiri	
24	P MUGIL SANTHANA	Rajah Serfoji Govt	P.Mugil Santhara
	B.SC Biochemistry	college, Thanjavur.	Santinan
25	B. KIRUTHIKAA	Rajah Serfoji Govt	
	B.SC Biochemistry	college, Thanjavur	Bitienthle
26	MERLIN SHARMI.G	Jamal Mohamed College	
	Assistant Professor of Fashion		200
0 17	Technology		
27	S.SANGEETHA	Jamal Mohamed College	S. Sargutes
	M.sc-Chemistry		Sugar
28	K.APROSE JAMEELA	Jamal Mohamed College .	14 6
	M.sc-Chemistry		K. April
29	K.A.HALLIMA	Jamal Mohamed College	(-) II
	M.sc-Chemistry		K.A. Holai
30	E.K.JAYASREE	Jamal Mohamed College	Extagam
4	M.sc-Chemistry		Exlay
31	M.ANIZ RISWANA	Jamal Mohamed College	M Aniz oisheam
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32	I.AFRITHA HALA	Jamal Mohamed College	
22	M.sc-Chemistry		114
33	S.SUSMITHA	Jamal Mohamed College	- it a
24	M.sc-Chemistry		S. Susmilian
34	R.ISHAMONIKA	Jamal Mohamed College	5
	M.sc-Chemistry		Valv



A.

COORDINATOR

JAMAL INSTRUMENTATION CENTRE JAMAL MOHAMED COLLEGE (Autonomous) Tiruchirappalli - 620 020



Accredited with A++ Grade by NAAC (4th Cycle with CGPA 3.69 out of 4.0) (Affiliated to Bharathidasan University) Tiruchirappalli - 620 020

### A One-week Certificate Programme on SPECTROSCOPIC AND CHROMATOGRAPHIC TECHNIQUES

(A Hands-on Training)

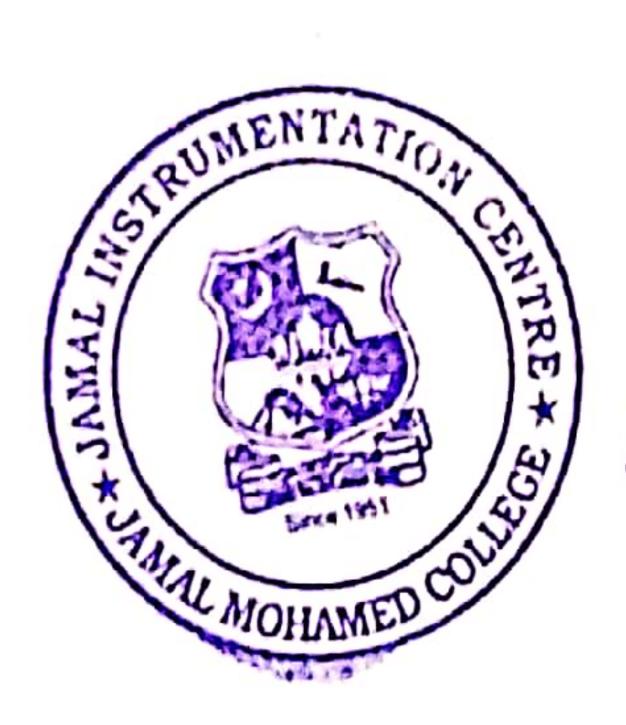
Registration form

+:	Registration form							
S. No	Name of the Participant and Class	Name of the College	SIGNATURE					
01	THOUFEEQ RAJA J M.Sc-Chemistry	Jamal Mohammed College	THA!					
02	THIRUKUMARAN B M.SC-CHEMISTRY	Jamal Mohammed College	- B B.					
03	RIYAS THEEN K Phd Research scholar Department of Botany	Jamal Mohammed College	k. Rysoffier					
04	KARAN S Phd Research scholar Department of zoology	C Abdul Hakeem College Autonomous Melvisharam RANIPET 632509	5.10 An					
05	M.KHALEELUR RAHMAN Assistant professor Department of zoology	C Abdul Hakeem College Autonomous Melvisharam RANIPET 632509	gel Hah					
06	RIYAS AHAMED H M.sc-Chemistry	Jamal Mohammed College	H-Rigastl					
07	PRADEEPRAJ S M.sc=Chemistry	Jamal Mohammed College	Fraday					
08	ABDUL KALAM ASATH M M.sc-chemistry	Jamal Mohammed College	CAsatt					
09	SEDUBALA P M.sc-chemistry	Jamal Mohammed College	R. Selles.					
10	ABDUL BASHEETH PS M.sc-chemistry	Jamal Mohammed College	Apti.					
11	THARIK ANWAR M M.sc-chemistry	Jamal Mohammed College	Train Amou.					
12	ARAVIND K M.sc-Chemistry	Jamal Mohammed College	I Meaning!					
13	BAJEEL BASHEER B.sc-Chemistry	Jamal Mohammed College	The state of the s					
14	A. ABDUL RAHMAN M.sc-chemistry	Jamal Mohammed College	the ph-					
15	DANIEL JEBARAJ P Phd research scholar Department of chemistry	Jamal Mohammed College						
16	YUVARAJ K M.sc-Zoology	Jamai Mohammed College	K. ymus					

17	MOHAMED ALRASHID M.sc-zoology	Jamal Mohammed College	
10		To 13.6	
18	FATHHUDDEEN S M.sc-zoology	Jamal Mohammed College	S.Fathhari
19	B. SHANMUGAVEL	JJ. Collage of Arts & Science	
17	B.sc biotechnology	Pudukkottai	B-8/2
20	P. BALASUBRAMANIAN	JJ. Collage of Arts & Science	
	B.sc biotechnology	Pudukkottai	P. Latasublamany
21	MOHAMED RIZVAN	JJ. Collage of Arts & Science	
22	B.Sc biotechnology	Pudukkottai	M. Mobame Rizaan
22	S.SRIHARI NARAYANAN	JJ. Collage of Arts & Science	(CC) N1
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23	HARISH.K	JJ. Collage of Arts & Science	. 1 000
	B.sc biotechnology	Pudukkottai	K
24	SANTHOSH.T	Nehru Memorial College	
	M.sc-zoology		7- Santlath
25	VELARASAN S	Maruthupandiyar college,	
12	M.sc biochemistry	Thanjavur	orana.
26	MAHESH.M	Government arts and science	
	B.sc biotechnology		N 1 ~
		Perambalur district	nobert n.m
27	M.ANNATHURAI	A.V.V.M Sri Pushpam	
	Phd research scholar	College (Autonomous),	
	Department of zoology	Poondi, Thanjavur, 613503	7. A.
28	M. ABDULLA	T1 N ( -1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	F
20	M.sc-chemistry	Jamal Mohammed College	M. Abdulla
29	SUBRAMANIYAN G		jor. Man
	M.sc-Chemistry	Arignar Anna Government Arts College Musiri	51-Subramanizen
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43	RAJARAJAN N	Rajah Serfoji Government	
	B.sc-biochemistry	College, Thanjavur-613005	10. Tripper
44	HARIHARAN M	Rajah Serfoji Government	O FR
	B.sc-biochemistry	College, Thanjavur-613005	M.100-H11.
45	N. GANESH	A.V.V.M Sri Pushpam	
	Phd Research scholar	College (Autonomous),	0 G Ad
	Department of Botany	Poondi, Thanjavur, 613503	
46	M.NAWAZ SAHUL	Jamal Mohammed College	
	HAMEED		no hos
	Phd Research scholar		M, , ,
	Department of Chemistry		





COORDINATOR

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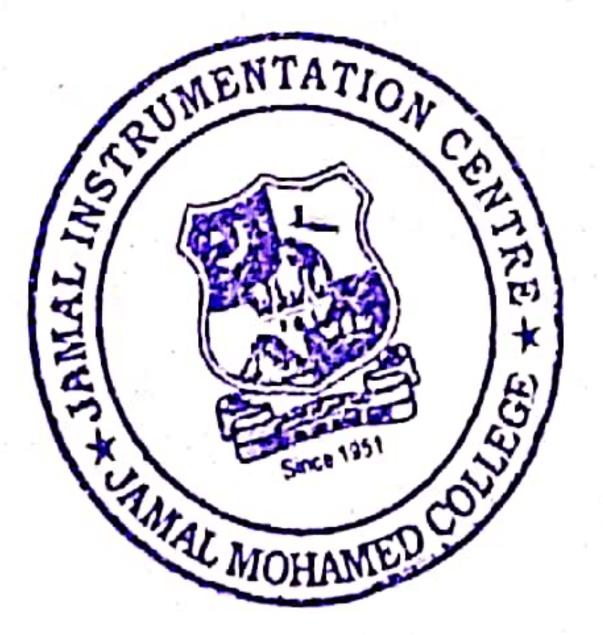
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# A One-week Certificate Programme on SPECTROSCOPIC AND CHROMATOGRAPHIC TECHNIQUES

(A Hands-on Training)

#### GROUP - A

Name of the Participant	Name of the Institution			Signa	ture		
		9.2.24	10.2.24	12.2.24	13224	14.2.24	15224
THOUFEEQ RAJA J M.Sc-Chemistry	Jamal Mohamed College, Tiruchirappalli	the	THE	THIN	13.2.24	14.2.24 1 Talk	10.2.24 104h
KARAN S Phd Research scholar Department of zoology	C Abdul Hakeem College Autonomous	Sicher	4		- Jack	5	5
M.KHALEELUR RAHMAN Assistant professor Department of zoology		30/22	gif Jah	pe Bala	91/2L	Pal.	
PRADEEPRAJ S M.sc-Chemistry	Jamal Mohamed College, Tiruchirappalli	(P)	P		1	P	
BAJEEL BASASHEER B.sc-Chemistry	Jamal Mohamed College, Tiruchirappalli	RA	1		Real Property	214	ZA
YUVARAJ K M.sc-Zoology	Jamal Mohamed College, Tiruchirappalli	1	k.ywwi	K.ymi	kymig	K.ymuy	Kymy
B. SHANMUGAVEL B.sc biotechnology	JJ. Collage of Arts & Science Pudukkottai	1. 01 16	Boy	B 8 2.	28/10	38/7-6	Pal
S.SRIHARI NARAYANAN B.sc biotechnology VELARASAN S	JJ. Collage of Arts & Science Pudukkottai	ENN EN	Silve	からいい		Maj LA	50 51W
M.sc biochemistry M. ABDULLA				J. Morone	. 4		STILL ON STATE
M.sc-chemistry PRATHEEP R	· · · · · · · · · · · · · · · · · · ·	M Doballe	M. Modules	M. Modulla			
M.sc-chemistry PRABHAKARAN N		R. Proth oef	R. protheep.	A. Protheep		Il an D	
M.sc-chemistry SURENDHAR A	Arignar Anna Government Arts College Musiri		A 1		Predate		Prebla
M.sc-chemistry DEEPANRAJ P	Arts College Musiri	A.S.	A.S	10	10	A-8u	1.8
RAJARAJAN N	Arignar Anna Government Arts College Musiri	v.R.	r. Lombro	v.d.	" She ye	Sings	roong.
B.sc-biochemistry	Rajah Serfoji Government College, Thanjavur-613005	سر المار الم	Drigge	Davis	Nov.	Da	0



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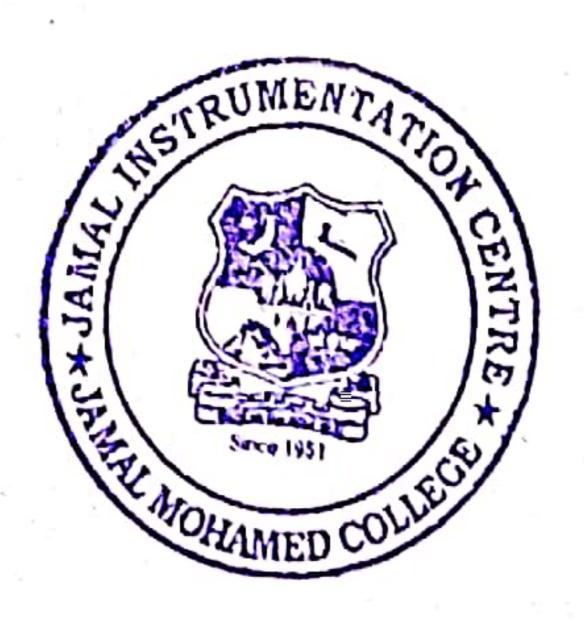
Tiruchirappalli - 620 020

# A One-week Certificate Programme on SPECTROSCOPIC AND CHROMATOGRAPHIC TECHNIQUES

(A Hands-on Training)

#### **GROUP-C**

Name of the Participant	Name of the Institution	Signature					
		9.2.24	10.2.24	12.2.24	13.2.24	14.2.24	15.2.24
RIYAS AHAMED H	Jamal Mohamed College,	2	wayselft	all		The way	Depth .
M.sc-Chemistry	Tiruchirappalli	Hoodey	Hotoshowy.	HPI/872	KP118	Rights	Makes
DANIEL JEBARAJ P	Jamal Mohamed College,	20-2		1	0.0	0-1	- \
Phd research scholar	Tiruchirappalli	- (r)V	10 OF	~ ( )K	L VY	01. M	2 6/1
Department of chemistry		400	VI- 5	11.0	11-10	ACO.	1. A.
FATHHUDDEEN S	Jamal Mohamed College,	CFithh	Stathling	S. Freshle	Stalle	C. Folhe	S. Follow
M.sc-zoology	Tiruchirappalli				20		
MOHAMED RIZVAN	JJ. Collage of Arts & Science	11- 44	dhd2i2van	wold and	untid sin A	rold 7 K	nested?
B.Sc biotechnology	Pudukkottai	hol 2izvan	hy/2120an	WHO IN AN	- 14 JV	1	المدزر
M.ANNATHURAI	A.V.V.M Sri Pushpam	10	Jep	là	0	/ 2	
Phd research scholar	College, Thanjavur	7.00	780	Tid F	7.8	19-4-6	11.25
Department of zoology		. 7		'		P' F	1 -
SUBRAMANIYAN G	Arignar Anna Government	بهم	- 000		740		
M.sc-Chemistry	Arts College, Musiri	W. Sapartan	G. gubrana	Ge. Subjanut	EI-ENPARAMA	Barpana	Charles Co
VISHVESHWARAN A	Arignar Anna Government	2	Y.	~	199	127	
M.sc-chemistry	Arts College, Musiri	V. My. M.	A-Vunga	A. Willy.	A.V.	Amin	1 mort
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KUMARESAN N		, Sn	. Jesu	uch	10SV		V
M.sc-chemistry	Arts College, Musiri	1 Kundisa	Nikimiesi	V. Bemblean	Spermess	NKUMA	Niturno
SRIRAM C	Arignar Anna Government		· _	a C/2	100	1	
M.sc-chemistry	Arts College, Musiri	Com	cour		100	سريف	- Con
RAMESH S	Arignar Anna Government						
M.sc-chemistry	Arts College, Musiri	S. Raport	S. Bingth	Sibresh.	Comosin	Same	C0.001
BHARANIDHARAN P	0 1 1 0 0 11 0	0-0	1:00	2012	1 4) 10)	Y'\ : \\\\\\	0-0
B.sc-biochemistry	College, Thanjavur	TO TON	781	7.95	6.64	D. TWY 2	750
N. GANESH	A A.V.V.M Sri Pushpam	1		1	1		\
Phd Research scholar	College, Thanjavur	Cust	2/1-1	1.7	and	CH	
Department of Botany	Jonege, Thangara	i. Gort	4	25	1	P L	.3.
ARAVIND K	Jamal Mohamed College,			1			
M.sc-Chemistry	rrieu abiranna III	ASION	Agrichand	prount	grant	grant	mut-
M.NAWAZ SAHIII, HAMEED	Jamal Mohamed College						===
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Department of Chemistry	i ii deiii appatii			W.	\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\	W. VO	141. 19
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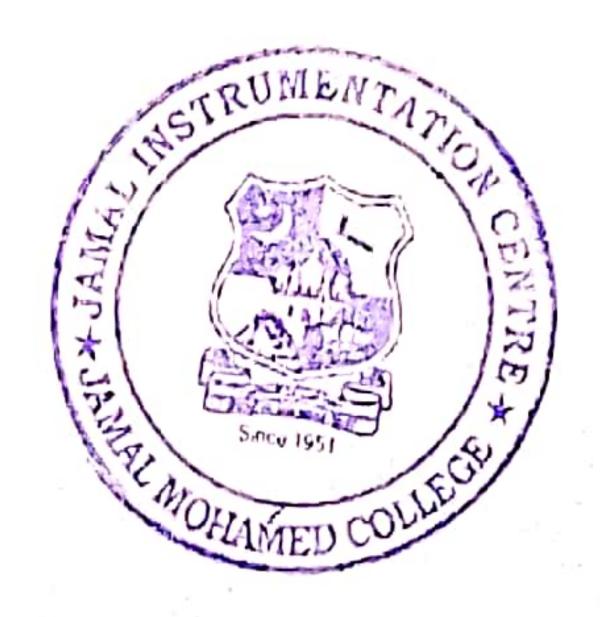
Tiruchirappalli - 620 020

# A One-week Certificate Programme on SPECTROSCOPIC AND CHROMATOGRAPHIC TECHNIQUES

(A Hands-on Training)

#### **GROUP-D**

Name of the Participant	Name of the	Signature					
Name of the Lattice	Institution	+045K*24*				11 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	The Comment of Code
		9.2.24	10.2.24	12.2.24	13.2.24	14.2.24	15.2.24
RAMYA M Phd Research scholar Department of zoology	Arignar Anna Government Arts College, Musiri	47/00	H 0 124	12/2012H	173to12	whate ox	H12/2/24
KALPANA.R M.sc-Chemistry	Vellalar College for Women's, Erode	fo glap4	Jo 12/24	12 17 12 12 12 12 12 12 12 12 12 12 12 12 12	80/26	De wat	Bileb
AYISHA HASEENA.M M.sc-Chemistry	Jamal Mohamed College, Tiruchirappalli	M.A.24 912124	Midalan	M. VAM 12/2/24	13/2/24	14/2/89	-M· A
PAVITHRA R  M.sc-Chemistry	Jamal Mohamed College, Tiruchirappalli	P. 47/12/2		2	13/2/24	Richard 24	15/2/2
SUGUNA.M B.sc-Chemistry	Arignar Anna Government Arts College, Musiri	M. Sugura	H. Sugura	M. Sugural	N. Suguta	M. Sugur	H. Seyun
DEVI.S B.sc-Chemistry	Arignar Anna Government Arts College, Musiri	g. Dow	S.Dow'	Spows	S.Dow	8.Dow	Spail
KIRUTHIKA.R B.sc-Chemistry	Arignar Anna Government Arts College, Musiri		R Kirithika			-	RJantel
P MUGIL SANTHANA B.SC Biochemistry B. KIRUTHIKAA	Rajah Serfoji Govt college,Thanjavur.	Santhan	Santhana		A Mugil Santhara	-Sunthana	13 putter
B. KIRUTHIKAA B.SC Biochemistry	Rajah Serfoji Govt college,Thanjavur	Brkiruhle	B.Karllile	B. Carthe	Bituuth	Bitante	Elizuth
M.sc-Chemistry	Jamal Mohamed College, Tiruchirappalli	B.Chh	B-Chih	B. July	B. Juh	g. Wh	B.K.L
POOJAKAVERI S  M.sc-Chemistry	Titueintappatii	Top jalous			1	Por By	No STON
RESHMA THASNEEM A M.sc-Chemistry	Jamal Mohamed College, Tiruchirappalli	A-Reshur Thasueu	Thersuse	- Masuell	Thosum	- Theres	
M.ANIZ RISWANA M.sc-Chemistry	Jamal Mohamed College, Tiruchirappalli	M-this	19.4viz	surreau.	minu.	girman	M. Aniz
I.AFRITHA HALA  M.sc-Chemistry	Jamal Mohamed College, Tiruchirappalli	D-Afla	T. ALL	DAJO.	T.Afer	D. He	T. ALC
R.BARANIKA M.sc-Chemistry	Jamal Mohamed College, Tiruchirappalli	P.Bud.	PBuf		1 / / -	p. Bort	P. Boot
S.SUSMITHA  M.sc-Chemistry	Jamal Mohamed College, Tiruchirappalli		& Sumitha	B. Busnitha	B. Burnisso	S. Lus Mith	8. Summerfr
MAYA.R M.sc-Zoology	Nehru Memorial College, Puthanampatti	2 Just		Bhape	2 July	Romer	P. Than.



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## A One-week Certificate Programme on SPECTROSCOPIC AND CHROMATOGRAPHIC TECHNIQUES

(A Hands-on Training)

#### **GROUP-E**

Name of the Participant	Name of the Institution			Signa	ture		
		9.2.24	10.2.24	12.2.24	13.2.24	14.2.24	15.2.24
S. MERLIN SHARMI Assistant Professor of Fashion echnology	Jamal Mohamed College, Tiruchirappalli	Jan.	140 -10/4F2	Jac Marie	-12/2/2/2	1 1 1 1 1	NO TEND
HIRIPURA SALINIS ssistant Professor of chemistry	Kings College of Engineering, Pudukkottai	AR RAPP	XX828/19213	424813	42000	ARMYS	AR AN
LEVATHI.M Assistant Professor of physics	Excel Engineering College Namakkal	20	VA	De	DL	10	Rd
ARAGATHAMANI S assistant Professor of chemistry	Excel Engineering College ,Namakkal	D.Med	6. Meis	b.Mag	5 Meil	S.Mas	27100
ANISHREE.P hd Research scholar epartment of zoology	A V V M Sri Pushpam College, poondi	a the	10.2.24	P. Ville	P. Vinibe 13/2/24	P. huiby.	
1.sc-Chemistry	Holycross College, Trichy	2 garlolie	abubyand	extedigeren	Deck-Jones	Jedyson	Colidadosa
ARKAVI.P I.sc-Chemistry	Holycross College, Trichy	P. Part	P. Park f.	P. Parks F.	Pran fo	Shops	PROLET
.NABISSA BANU .Sc biotechnology	Jamal Mohamed College, Tiruchirappalli	R.18	F. De	R. Day	2 Hos	2.000	Rasin
ALMAS FATHIMA Sc biotechnology	Jamal Mohamed College, Tiruchirappalli	A. Drostal	N. Drietale	N.A. College	L'alico	22563	A comprise
HARSINI.M [.sc-Zoology	·	M. sharin	11. Pharcin	M. Phuesia	M. Alassi	M. Hasini	M Threening.
SANGEETHA [.sc-Chemistry	Jamal Mohamed College, Tiruchirappalli	S. Sayata	S. Sensocky	S. Sayata			
.APROSE JAMEELA  l.sc-Chemistry	Jamal Mohamed College, Tiruchirappalli	FPPSE	F19-Jr	K. April	KApol	KAPL	K:ADA
.A.HALLIMA l.sc-Chemistry	Jamal Mohamed College, Tiruchirappalli	* AM	4.0.1	13		150	
K. JAYASREE  .sc-Chemistry	Jamal Mohamed College, Tiruchirappalli	Ekkarps			•		Sterland
sc-Chemistry	Jamal Mohamed College.	RJ84.	2.18	D. Day	279	333	B. Palm
SARANYA .sc-Chemistry	Jamal Mohamed College, Tiruchirappalli	0.85 12	p.sc.	2502	0.52	0.52	nas
THASNEEM .sc-Chemistry	Jamal Mohamed College, Tiruchirappalli	N. There's	A Ten 124	A. 190 24	1101011	A. Tues	A. Karros
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A One-week Certificate Programme on SPECTROSCOPIC AND CHROMATOGRAPHIC TECHNIQUES (A Hands-on Training)

### VALEDICTION **AGENDA**

15.02.2024 @ 5.30 pm Qirath

Venue: Zoology seminar hall

: Dr. A. Asrar Ahamed

Assistant Professor of Chemistry

Welcome address

: Dr. M. Purushothaman

Coordinator, JAMIC

Associate Professor of Chemistry

Report of the Workshop

: Dr. P.Rajasekar

Organising Secretary

FeedBack from participants

Presidential address

: Dr. S. Ismail Mohideen

Principal

Felicitation

: Dr. A.K. Khaja Nazeemudeen, D.Litt. (USA)

Secretary & Correspondent

Hajee M.J. Jamal Mohamed

Treasurer

Dr. K. Abdus Samad

Assistant Secretary

Dr. K.N. Abdul Kader Nihal

Member & Hon. Director

Dr. D.I. George Amalarethinam

Vice - Principal

Dr. A. Ishaq Ahamed

Additional Vice- Principal

Dr. A.J. Haja Mohideen

Additional Vice- Principal

Dr. K.N. Mohamed Fazil

Director – Hostel Administration

Ms. J. Hajira Fathima

Director Women Hostel

Certificates Distribution

Vote of Thanks

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### STUDENT COPY

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(Jamal Mohamed College Branch)

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Tiruchirappalli - 620 020,

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A One-week Certificate Programme on

### SPECTROSCOPIC AND CHROMATOGRAPHIC TECHNIQUES

(A Hands-on Training) 09-02-2024 to 15-02-2024

### STATEMENT OF EXPENDITURE

	Credit		Debit	
S.No.	Particulars	Amount	Particulars	Amount ₹
01	80 Participants @ ₹1000/-	80,000/-	Printing Invitation	760
01	00 1 41	=	Postage	444
02			Kit (File, Pen, Scribbling Pad)	5130
03			Honorarium for Resource Persons	32500
04			(50 sessions @ ₹650/-)	32300
0.5			Honorarium for Coordinator	2000
05	=======================================		Honorarium for Dy. Coordinator	2000
06			Honorarium for Technical	1000
07			Assistant	
			Refreshment	10800
08	= =		Report Preparation	1000
09			Certificates	2150
10	=		Stationary	600
11			Flex	2000
12			Photographs	1000
13			Flask, tray, tea cup	1610
14		00.004		62994
	Total	80,000/-	Total	
	Balance Rupees: 17,006/- (	Seventeen	thousand six only	





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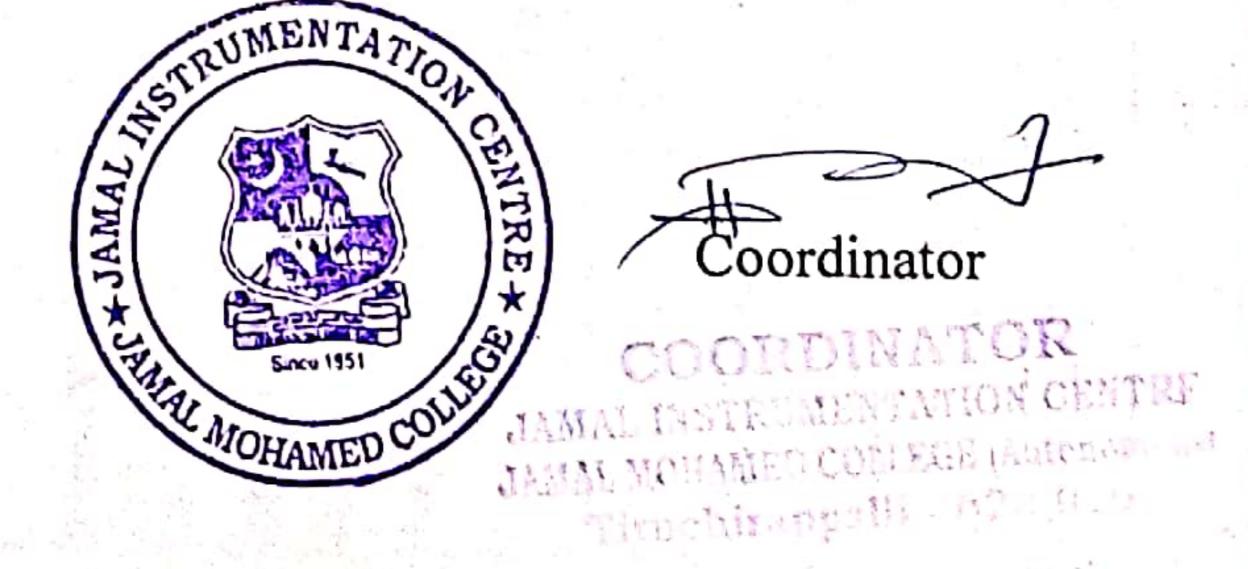
Tiruchirappalli - 620 020

Amount paid by the participants to one-week certificate programme on spectroscopic and chromatographic techniques (09.02.2024 to 15.02.2024)

S.No.	Name of the Participant	Receipt Number	Date	Amount
1	RAMYA M	402217911276	22.1.24	1000
2	THOUFEEQ RAJA J	402324587793	23.1.24	1000
3	THIRUKUMARAN B	438927569923	23.1.24	1000
4	RIYAS THEEN K	402503441614	25.1.24	1000
5	KARANS	402778918455	27.1.24	1000
6	RIYAS AHAMED H	439546601783	29.1.24	1000
7. 0	PRADEEPRAJ S	403075217801	30.1.24	1000
8	ARAVIND K	403079866878	30.1.24	1000
9	KALPANA.R	439722101999	31.1.24	1000
10	R.NABISSA BANU	ATM ID:IOBC3210	31.1.24	1000
11	BAJEEL BASHEER	403285776922	1.2.24	1000
12	YUVARAJ K	439897349268	1.2.24	: 1000
13	B.SHANMUGAVEL	403312433377	2.2.24	1000
14	M.KHALEELUR RAHMAN	T2402021147302479196577	2.2.24	1000
15	DHARSINI.M	T2402031632237214067970	3.2.24	1000
16	IMAYA.R	T2402031942230966556060	3.2.24	1000
17	SANTHOSH.T	T2402031959193609207012	3.2.24	1000
18	MOHAMED ALRASHID	440106280352	4.2.24	1000
19	P.BALASUBRAMANIAN	403515207194	4.2.24	1000
20	VELARASAN S		4.2.24	
21	MOHAMED RIZVAN	440112428596	4.2.24	1000
22	S.SRIHARI NARAYANAN	403527695572	4.2.24	1000
23	HARISH.K	403530395969	4.2.24	1000
24	MAHESH.M	403527398585	4.2.24	1000
25	YUVASHREE B	403521272340	4.2.24	1000
26	A.ALMAS FATHIMA	440255524118	5.2.24	1000
27	M.ANNATHURAI	403610536690	5.2.24	1000
28	POOJAKAVERI S	403612907018		1000
29	VANISHREE.P	403640613424	5.2.24	1000
30	FATHHUDDEEN S	402051154098509302528	5.2.24	1000
31	A. ABDUL RAHMAN	440226333120	5.2.24	1000
32	M. ABDULLA	440240337829	5.2.24	1000
33	SUBRAMANIYAN G	440232831394	5.2.24	1000
34	VINOTH S	403697741937		1000
35	PRATHEEP R		5.2.24 5.2.24	1000
36	VISHVESHWARAN A	440208839317	5.2.24	1000
37	DANIEL JEBARAJ P	403648643678		1000
38	LIVENTHIRAN K	440292144781	5.2.24	1000
39	PRABHAKARAN N	403663039708	5.2.24	1000
40	KUMARESAN N	440261536245	5.2.24 5.2.24	1000

S.No.	Name of the Participant	Receipt Number	Date	Amount						
41	SRIRAM C	440280839513	×5.2.24	1000						
42	SURENDHAR A	403682045663	5.2.24	1000						
43	G.VIDHYA SHREE	440291323564	5.2.24	1000						
44	RAMESH S	440294438193	5.2.24	1000						
45	THIRIPURA SALINI S	403444866798	5.2.24	1000						
46	ABDUL KALAM ASATH M	T2402051539518058131694	5.2.24	1000						
47	REVATHI.M	440204829112	5.2.24	1000						
48	MARAGATHAMANI S	440285427863	5.2.24	1000						
49	SEDUBALA P	403631050894	5.2.24	1000						
50	ABDUL BASHEETH ₽S	403605147969	5.2.24	1000						
51 52	SUGUNA.M	403637423192	5.2.24	1000						
52	THARIK ANWAR M	403681548861	5.2.24	1000						
53	DEEPANRAJ P	403638521676	5.2.24	1000						
54	KIRUTHIKA.R	440244661912	5.2.24	1000						
55	RESHMA THASNEEM A	403506307235	5.2.24	1000						
56	ISHAMONIKA R	403612932835	5.2.24	1000						
57	BHARANIDHARAN P	440276645574	5.2.24	1000						
58	DEVI.S	440268756507	5.2.24	1000						
59	GUNAL V	403644056513	5.2.24	1000						
60	A.THASNEEM	403619776779	5.2.24	1000						
61	RAJARAJAN N	403641327435	5.2.24	1000						
62	PARKAVI.P	440249219241	5.2.24	1000						
63	AYISHA HASEENA.M	403683543809	5.2.24	1000						
64	PAVITHRA R	440221457965	5.2.24	1000						
65	HARIHARAN M	403629461376	5.2.24	1000						
66	R.BARANIKA	403634366125	5.2.24	1000						
67	S. DINESH	403628663501	5.2.24	1000						
68 .	P MUGIL SANTHANA	403750009630	6.2.24	1000						
69	B. KIRUTHIKAA	403750071267	6.2.24	1000						
70	N. GANESH	440339996294	6.2.24	1000						
71	K.APROSE JAMEELA	403644975491	13.2.24	1000						
72	M.ANIZ RISWANA	440230361024	13.2.24	1000						
. 73	JAYASREE EK	403620371613	13.2.24	1000						
74	SANGEĒTHA .S	403644640789	13.2.24	1000						
75	I.AFRITHA HALA	403657059968	13.2.24	1000						
76	M.NAWAZ SAHUL HAMEED	440225251490	14.2.24	1000						
77	K.A.HALLIMA	403714295191	14.2.24	1000						
78	SARANYA P	403619750804	14.2.24	1000						
79	SUSMITHA. S	403619963011	14.2.24	1000						
80	MERLIN SHARMI.G	403725605032	15.2.24	1000						
10.00	Total: Eighty thousand only									

Organizing Secretary



Name of the Participant (Capi Letters)	I Name of t		etic (Instruent)	rom Visib r Spect me hotome (Theorem	ster etic Handlin	oho Absorption Spectropion ometer of the oretical content of the oretical cont	Spectropic hot Spectropic ometer (Instrume	Spectron eter (Theoret al		HPLC (Theore n cal g Session	Handling	e level of the participant before attending	attending the programme
G.VIDHYA SHREE	HOLYCRO S COLLEG	1	Excelle	nt Good	Good	Good	Good	Good	Good	Good	Good	Medium	High
KALPANA R	Vellalar College for Women's	Excellene	t Exceller	nt Exceller	nt Fair	Excellent	Excellent	Excellen	Excellen	Excellen	t Excellen	Medium	Medium
Ramya M	Arignar Anna Government Arts College Musiri	Excellene	Excellen	t Excellen	t Excellent	Excellent	Excellent	Excellent	Excellent	Excellen	t Excellent	Medium	Medium
PARKAVI.P	Holy cross college(Auton omous)	Good	Excellent	Excellent	Excellent	Excellent	Excellent	Excellent	Good	Good	Excellent	Low	Medium
THIRUKUMARAN B	JAMAL	Excellenet	Excellent	Excellent	Excellent	Excellent	Excellent	Excellent	Excellent	Excellent	Excellent	High	High
THOUFEEQ RAJA J	JAMAL	Excellenet	Excellent	Excellent	Excellent	Excellent	Excellent	Excellent	Excellent	Excellent	Excellent	High	High
ALMAS FATHIMA	JAMAL MOHAMMAD	Fair	Fair	Excellent	Excellent	Excellent	Good	Good	Good	Fair	Good	Low	Medium
K.APROSE JAMEELA	Jamal	Excellenet	Excellent	Excellent	Good	Excellent	Excellent	Excellent	Excellent	Good	Excellent	Medium	High
BARANIKA. R	Jamal	Excellenet	Excellent	Excellent	Excellent	Excellent	Excellent	Excellent	;	Excellent		Low	High

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ISHAMONIKA R	Jamal mohammad college	Excellenet	Excellent	Excellent	Excellent	Excellent	Excellent	Excellent	Excellent	Excellent	Excellent	Medium	High
A.THASNEEM	JAMAL MOHAMED COLLEGE	Good	Excellent	Good	Good .	Excellent	Excellent	Good	Excellent	Good	Excellent	Medium	Hìgh
M.ANIZ RISWANA	Jamal Mohamed college	Excellenet	Excellent	Excellent	Excellent	Excellent	Excellent	Excellent	Excellent	Excellent	Excellent	Medium	High
YUVARAJ K	Jamal Mohamed College	Excellenet	Excellent	Excellent	Good	Excellent	Excellent	Good	Excellen	t Excellen	t Excellent	Low	Medium
I.AFRITHA HALA	Jamal mohamed college	Good	Excellent	Excellent	Excellent	Excellent	Excellent	Excellen	t Excellen	t Exceller	t Excellen	Medium	High
POOJAKAVERIS	Jamal Mohammad college Trichy	Good	Excellent	Good	Good	Excellent	Excellent	Good	Good	Excelle	nt Excellen	t Low	High
SANTHOSH T	nehru memorial college	Good	Excellen	Excellen	Excellent	Good	Excellen	Good	Good	Excelle	nt Exceller	nt Low	High
RESHMA THASNEEM A	Jamal Mohamed College	Excellene	Excellen	t Good	Good	Excellent	Excellen	t Excelle	nt Excelle	ent Good	Good	Low	Medium
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Harish k	J.J college of arts and science	Excellenet	Excellent	Excellent	Excellent	Excellent	Excellent	Excellent	Excellent	Excellent	Excellent	High	High	
B.SHANMUGAVEL	JJ.College of Arts & Science	Good	Good	Excellent	Excellent	Excellent	Excellent	Excellent	Excellent	Excellent	Excellent	High	High	
Mohamed Rizvan	J J college of arts and science pudukottai	100	Excellent	Excellent	Excellent	Excellent	Excellent	Excellent	Excellent	Excellent	Excellent	High	High	
MAHESHWARAN M	Government arts and science college		Excellent	Excellent	Excellent	Excellent	Excellent	Excellent	Excellent	Excellent	Excellent	High	Medium	
S.SRIHARI NARAYANAN	JJ.college of arts and science	Good	Good	Excellent	Excellent	Excellent	Excellent	Good	Good	Excellen	t Excellent	Low	High	
P.Balasubramanian	J j college of	1	Excellent	Excellent	Excellent	Excellent	Excellent	Excellen	Excellen	Exceller	t Excellen	t High	High	
K.A.HALLIMA	Jamal Mohamed college	Excellenet	Excellent	Excellent	Excellent	Excellent	Excellent	Excellen	t Good	Good	Exceller	nt High	High	
MERLIN SHARMI.G	Jamal Mohamed College, Tiruchirapalli- 620020		Excellent	Excellent	Excellent	Excellent	Excellen	t Exceller	nt Exceller	nt Excelle	nt Excelle	nt Low	High	- SAMPLE
Revathi.M	Excel Engineering college	Excellene	t Excellent	Excellent	Excellent	Excellent	Exceller	nt Excelle	nt Excelle	nt Excell	ent Excelle	ent High	n High	
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COORDINATOR

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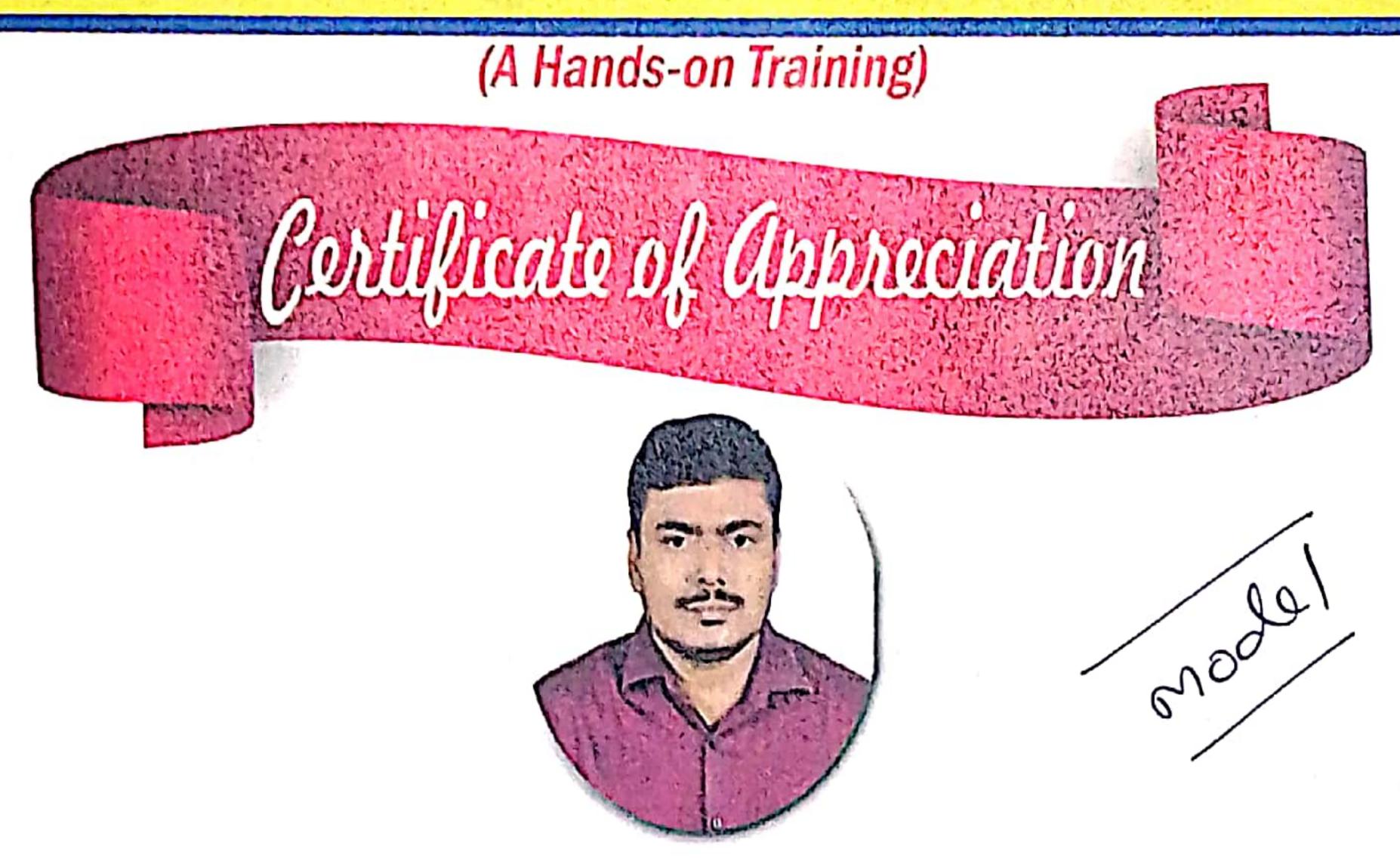
### JAMAL MOHAMED COLLEGE (Autonomous)





One Week Certificate Programme on

## SPECTROSCOPIC AND CHROMATOGRAPHIC TECHNIQUES



This is to certify that

## Dr. M. ANWAR SATHIQ

as served as Resource Person and delivered a lecture on "An overview of IV-Visible Spectroscopy: Instrumentation and Interpretation Approach" uring the One week Certificate programme on **Spectroscopic and Chromatographic Techniques** organised by Jamal Instrumentation Lentre, Jamal Mohamed College (Autonomous), Tiruchirappalli - 620 020 from the 15th February 2024.

Dr. P. Rajasekar Organising Secretary Dr. M. Purushothaman Convener

Dr. S. Ismail Mohideen
Principal



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(A Hands-on Training)



This is to certify that



Mr. KARAN .S

h.D. Research Scholar of Zoology, C Abdul Hakeem College, Melvisharam as participated One week Certificate programme on Spectroscopic and hromatographic Techniques organised by Jamal Instrumentation entre, Jamal Mohamed College (Autonomous), Tiruchirappalli - 620 020 from h to 15th February 2024.

Dr. P. Rajasekar **Organising Secretary**  Dr. M. Purushothaman Convener

Dr. S. Ismail Mohideen Principal