

Date: 09.12.2021

From

The Head,

Department of Chemistry/Biochemistry

MSRCASC

To

The Principal,

MSRCASC

Sub: Request for financial assistance to conduct FDP

Dear Ma'am,

We, the department of chemistry/biochemistry is planning to organize a 5-day FDP during Jan 10-14, 2022, and are contacting speakers from reputed intuitions. In this regard, we request you to grant the financial assistance for giving an honorarium (Rs. 2000/-) and memento (Rs. 500/-) to the invited speakers. Since the program is for 5 days with 10 sessions, we required funding of Rs. 25000/- (rupees twenty-five thousand) in total.

Also, we request you to arrange the online meeting platform (Zoom for unlimited time and 150 participants) for the same.

Thanking you,

Yours sincerely

S. G. Prasanna Kumar

Mr. S. G. Prasanna Kumar

  
Principal,  
S. Hanumanth College of Arts, Science & Commerce  
MSRIT Post, MSR Nagar  
Bangalore - 560 054

For kind regard  
S. G. Prasanna Kumar

GP  
XPS  
S. G. Prasanna Kumar

(GP)



**From**

**Date:** 23/12/2021

**Head of the Department,**

Department of Chemistry/Biochemistry

MSRCASC, Bengaluru – 54

**To**

**The Principal,**

MSRCASC

Bengaluru – 54

**Respected Madam,**

**Sub:** Requisition for Permission to organize National Level Five Days Online Faculty Development Program on “Spectroscopic techniques: A tool in contemporary research”

With reference to above, the Department of Chemistry and Biochemistry is planning to organize a National Level Five Days Online Faculty Development Program on “Spectroscopic techniques: A tool in contemporary research” from January 10 -14<sup>th</sup>, 2022 to the science faculty members of colleges in India. The Invited speakers’ list is enclosed. I am seeking your kind permission to organize the same.

**Event Coordinators:**

**Dr. Ashly P C**

Assistant Professor

Dept. of Chemistry/Biochemistry

**Dr. Harisha S**

Assistant Professor

Dept. of Chemistry/Biochemistry

**Dr. Vibha Vinayakumar Bhat**

Assistant Professor

Dept. of Chemistry/Biochemistry

**Yours Sincerely,**

*S.G. Prasad*  
Head of the Department  
CHEMISTRY / BIO-CHEMISTRY  
M.S. Ramaiah College of Arts,  
Science & Commerce  
Bangalore - 560 054

*Heck*  
23/12/21  
Principal,  
M.S. Ramaiah College of Arts, Science & Commerce  
MSRIT Post, MSR Nagar  
Bangalore - 560 054



## Resource Persons



**Prof. S. M. SHIVAPRASAD**  
Director, Karnataka state  
higher education academy,  
Dharwad  
& Professor,  
International centre for  
material science, JNCASR,  
Bangalore



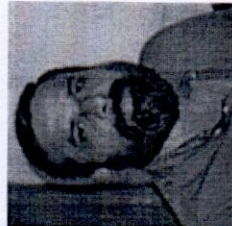
**Prof. CHANDRABHAS NARAYANA**  
Director,  
Rajiv Gandhi Centre for  
Biotechnology  
Thiruvananthapuram  
& Professor  
Chemistry and Physics of  
Materials Unit  
JNCASR, Bangalore



**Prof. E. ARUNAN**  
Department of Inorganic and  
Physical Chemistry,  
Indian Institute of Science  
Bangalore



**Prof. MAHESH HARIHARAN**  
Professor and Head  
*School of Chemistry,*  
*IISER Thiruvananthapuram*



**Prof. P. K. MADHU**  
Professor  
Department of Chemical  
Sciences  
Tata Institute of Fundamental  
Research, Mumbai



**Prof. UDAY MAITRA**  
Professor  
Department of Organic  
Chemistry  
Indian Institute of Science  
Bangalore



**Dr. M. NETAJI**  
Chief Research Scientist  
Department of Inorganic and  
Physical Chemistry  
Indian Institute of Science  
Bangalore



**Prof. SARIT S. AGASTI**  
Associate Professor,  
New Chemistry Unit and  
Chemistry and Physics of  
Materials Unit, JNCASR,  
Bangalore



**Dr. PRALAY SANTRA**  
Centre for Nano and Soft  
Matter Sciences(CeNS)  
Bangalore



**Prof. BEERAIHA BAIRE**  
Associate Professor  
Department of Chemistry  
Indian Institute of  
Technology Madras



## M. S. Ramaiah College of Arts, Science and Commerce (MSRCASC)

M. S. Ramaiah College of Arts, Science and Commerce was established in 1994 by our founder Late Dr. M S Ramaiah offering both undergraduate and post graduate degrees offered by Bangalore University in Arts, Science and Commerce and Management streams. The college is approved by AICTE, New Delhi, recognized by the Government of Karnataka. The college is also recognized by UGC under 2(f) and 12 B of UGC Act 1956, re-accredited "A" grade by NAAC. The college offers seven UG courses and five PG courses in Arts, Science, and Commerce, to around 2700 students.



### Patrons

**Dr. M R Jayaram**  
Hon'ble Chairman, GEF  
Chancellor, RUAS

**Sri. M R Janakiram**  
Hon'ble Director, GEF

**Sri. M R Kodandaram**  
Hon'ble Director, GEF

**Sri. B S Ramaprasad**  
Chief Executive, GEF (Engg & GS)

**Sri. G Ramachandra**  
Chief of Finance, GEF (Engg & GS)

### Organizing Committee

**Dr. Nagarathna A**  
Principal, MSRCASC

**Mr. Prasanna Kumar S G**  
Head, Dept. of Chemistry/Biochemistry, MSRCASC

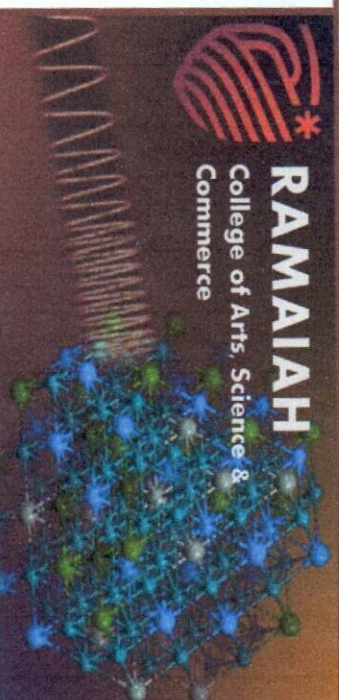
**Dr. Ashly P C**  
Asst. Professor, Dept. of Chemistry/Biochemistry, MSRCASC

**Dr. Vibha Vinayakumar Bhat**  
Asst. Professor, Dept. of Chemistry/Biochemistry, MSRCASC

**Dr. Harish S**  
Asst. Professor, Dept. of Chemistry/Biochemistry, MSRCASC

**Dr. Vijay Kumar Reddy**  
Professor, Dept. of Chemistry/Biochemistry, MSRCASC

**Dr. Vasanth K Bhaskara**  
Asst. Professor, Dept. of Chemistry/Biochemistry, MSRCASC



**An IQAC initiative  
National level  
Five days online Faculty Development  
Program on  
Spectroscopic techniques: A  
tool in contemporary research**  
10-14 January 2022

*Organized by*

**Department of Chemistry/  
Biochemistry**  
**M. S. Ramaiah College of Arts, Science  
and Commerce,  
MSRIT Post,  
Bengaluru-54.**



## Department of Chemistry/ Biochemistry

The Department of Chemistry/ Biochemistry was established in the year 1994 and currently conducts both UG and PG courses in Chemistry and Biochemistry. The department has well qualified & experienced faculty members with rich academic background and innovative skills to ensure quality education. Students will be guided to understand chemistry & biochemistry by participating in research projects & will be trained to obtain application capabilities that will serve as a foundation for academic research as well as industrial development.

### About the Program

Spectroscopy techniques are methods that use electromagnetic radiation to analyse the properties or characteristics of materials. Therefore, it found wide application in all branches of science.

The FDP aims to cover various aspects of spectroscopic techniques: fundamentals, recent developments and application through a series of invited lectures from eminent personalities. The program is for 5 days with 2 sessions each day. The program is open for faculty members and research students from science background working at various institutes in India.

### Objective

The FDP is designed to bring eminent scientists, faculty members and research students from various institutes to a common gathering for exchanging and sharing the recent developments in the field of spectroscopy. The participants are going to gain extensive details of subject knowledge along with practical knowledge. It will help them to do better teaching and conduct research activities at their institutes.

### Outcome

After attending the program one will be able to

- Understand the basics, emerging trends & challenges in the field of Spectroscopy
- Improve their ability to teach in effective ways
- Explore various methods for improvement of experiential learning
- Provide opportunities to further widen the knowledge and to pursue research

### Contents

Fundamentals and applications of :

- Microwave Spectroscopy
- Ultrafast Spectroscopy
- Raman Spectroscopy
- X-ray Photoelectron Spectroscopy
- X-ray Diffraction Spectroscopy
- Nuclear Magnetic Resonance Spectroscopy

### Registration:

*The registration is free, and participants can register through the link given below:*

<https://forms.gle/pWHYz4W3UAnCDZGJA>

The seats are limited and will be given first come first serve basis. The selected participants will be intimated by email.

*e - Certificate will be issued after attending all sessions and submitting the feedback form.*

### Coordinators

**Dr. Ashly P. C.**

Phone: 09449176602

Email: ashly\_chem@msrcasc.edu.in

**Dr. Vibha Vinayakumar Bhat**

Phone: 08095177155

Email: vibhamadhava\_chem@msrcasc.edu.in

**Dr. Harisha S.**

Phone: 07619330774

Email: harish.ukkunda@gmail.com



## Resource Persons

### Session 1 (11 a.m.- 12.30 p.m.)

Day 1



**Prof. S. M. SHIVAPRASAD**  
Director  
Karnataka state higher education academy,  
Dharwad  
Professor  
International centre for material science, JNCASR  
Bengaluru

Day 2



**Prof. CHANDRABHAS NARAYANA**  
Director  
Rajiv Gandhi Centre for Biotechnology,  
Thiruvananthapuram  
Professor  
Chemistry and Physics of Materials Unit, JNCASR  
Bengaluru

Day 3



**Prof. E. ARUNAN**  
Professor  
Department of Inorganic and Physical Chemistry,  
Indian Institute of Science  
Bengaluru

Day 4



**Prof. P. K. MADHU**  
Professor  
TIFR Centre for Interdisciplinary Sciences  
Tata Institute of Fundamental Research  
Hyderabad

Day 5

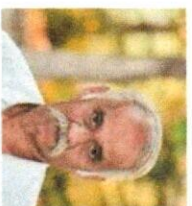


**Prof. BEERAIAH BAIRE**  
Associate Professor  
Department of Chemistry,  
Indian Institute of Technology Madras  
Chennai

### Session II (2-3.30 p.m.)



**Prof. UDAY MAITRA**  
Professor  
Department of Organic Chemistry,  
Indian Institute of Science  
Bengaluru



**Dr. M. NETAJI**  
Chief Research Scientist  
Department of Inorganic and Physical Chemistry,  
Indian Institute of Science  
Bengaluru



**Prof. MAHESH HARIHARAN**  
Professor and Head  
School of Chemistry,  
Indian Institute of Science Education and  
Research  
Thiruvananthapuram



**Dr. PRALAY SANTRA**  
Centre for Nano and Soft Matter Sciences  
Bengaluru



**Prof. SARIT S. AGASTI**  
Associate Professor  
New Chemistry Unit &  
Chemistry and Physics of Materials Unit,  
JNCASR  
Bengaluru



FDP : Honararium  
details

M S RAMAIAH COLLEGE OF ARTS, SCIENCE AND COMMERCE  
FDP HONORARIUM LIST JAN 2022

		AMOUNT	BANK NAME	IFSC	A/C NO	NAME
0001	89250200000037	2,000	Canara Bank, IISC Branch	CNRB0000683	0683131000005	Chandrabhas Narayana
0002	89250200000037	2,000	Canara Bank, IISC Branch	CNRB0000683	0683101025840	Shivaprasad S. M.
0003	89250200000037	2,000	Canara Bank, IISC Branch	CNRB0000683	0683101030020	Sarit S Agasti
0004	89250200000037	2,000	Canara Bank, IISC Branch	CNRB0000683	0683101017477	Dr M Nethaji
0005	89250200000037	2,000	State Bank of India, Jalahalli Branch	SBIN0000963	36372657535	Pralay K Santra
0006	89250200000037	2,000	State Bank of India IIT madras Branch	SBIN0001055	20177317417	Beeralah Baire
0007	89250200000037	2,000	State Bank of India, IISc Branch	SBIN0002215	10270612363	Uday Maitra
0008	89250200000037	2,000	State Bank of India, IISc Branch	SBIN0002215	10270643528	Arunan E
0009	89250200000037	2,000	State Bank of India, Hyderabad University Campus Branch	SBIN0005916	38173610280	P.K Madhu
0010	89250200000037	2,000	State Bank of India, Thiruvananthap Branch	SBIN0070268	67090474160	Mahesh Hariharan

Total Amount  
CH No 000578  
17.1.2022

20,000.00

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17/1/22



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17/1/22  
*[Handwritten initials]*

*[Handwritten signature]*  
Principal,

M.S. Ramaiah College of Arts, Science & Commerce  
MSRIT Post, MSR Nagar  
Bangalore - 560 054



BANK OF BARODA  
MSRITDate : 20-01-2022  
Time : 11:27:07

## ADDRESS:

HELPLINE NO. : 1800223344/18001024455/18002584455  
BRANCH PHONE NO. :  
MICR CODE: 560012052 IFSC CODE: BARB0VJMSRI

Page No: 1

A/C Name : M/S. M.S.RAMIAH COLLEGE OF ARTS, SCIENC  
Address : M S R INSTITUTIONS, CAMPUS, MSRIT POST  
BLORE-54,  
City : BANGALORE Pin Code : 560054  
Tel No. :  
Nomination Flag : N Nominee Name :  
Scheme Description : BARODA ADVANTAGE CURRENT  
Joint Holders :

A/C Number : 89250200000037

Account Open Date : 25-05-2000

Statement of account for the period of 18-01-2022 to 18-01-2022

DATE	PARTICULARS	CHQ.NO.	WITHDRAWALS	DEPOSITS	BALANCE
18-01-22	DIGITA-MUMBAI/				33,93,001.21
18-01-22	DIGITA-MUMBAI/			1.00	33,93,002.21
18-01-22	IMPS/P2A/201812407954/CashfreePrivate/DreamplugTe SERBAN-BANGALO 556		1,06,809.00		32,86,193.21
18-01-22	LIC632 CB0582 CA OI 00100 Charges for		2.65		32,86,190.56
18-01-22	Charges for PORD Customer Payment :000834122781 NEFT-BARBR2201		2,000.00		32,84,190.56
18-01-22	NEFT-BARBR22018596326-CHANDRABHAS NARAYANA-CANARA Charges for		2.65		32,84,187.91
18-01-22	Charges for PORD Customer Payment :000834122784 NEFT-BARBR2201		2,000.00		32,82,187.91
18-01-22	NEFT-BARBR22018596329-SHIVAPRASAD S M-CANARA BANK Charges for		2.65		32,82,185.26
18-01-22	Charges for PORD Customer Payment :000834122786 NEFT-BARBR2201		2,000.00		32,80,185.26
18-01-22	NEFT-BARBR22018596331-SARIT S AGASTI-CANARA BANK (		2.65		32,80,182.61
18-01-22	Charges for PORD Customer Payment :000834122790 NEFT-BARBR2201		2,000.00		32,78,182.61
18-01-22	NEFT-BARBR22018596335-DR M NETHAJI-CANARA BANK (CA		2.65		32,78,179.96
18-01-22	Charges for PORD Customer Payment :000834122792 NEFT-BARBR2201		2,000.00		32,76,179.96

[https://cbdlb101.bankofbaroda.co.in:12000/finbranch/arjspmooah/INFENG/ran\\_rpt.jsp?r](https://cbdlb101.bankofbaroda.co.in:12000/finbranch/arjspmooah/INFENG/ran_rpt.jsp?r) 20-01-2022
Principal,  
MSRIT Post, MSR Nagar  
Bangalore - 560 054



Page Total:	10,013.25	1,75,000.00	34,41,166.71Cr
Grand Total:	1,26,835.50	1,75,001.00	34,41,166.71Cr

As On 20-01-2022

ClrBal:	37,36,438.71	Unclr Bal:	0.00	Lien:	0.00*
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Note: Cheques received in inward clearing will be considered for debiting/returning on the basis opening balance in account  
Unless the constituent notifies the bank of any discrepancy in this statement within 15 days from the date of statement, it will be construed that the transaction(s) in the statement are correct.

BANK OF BARODA  
MSRIT

Date : 20-01-2022  
Time : 11:27:07

## ADDRESS:

HELPLINE NO. : 1800223344/18001024455/18002584455

BRANCH PHONE NO. :

MICR CODE: 560012052 IFSC CODE: BARB0VJMSRI

Page No: 3

We are committed to treat customers fairly as per BCSBI code of Bank's commitment to customers and Micro and Small Enterprises.  
For details please visit our website [www.bankofbaroda.com](http://www.bankofbaroda.com) or [www.bcsbi.org.in](http://www.bcsbi.org.in)

Please contact your branch for registration of your MOBILE NUMBER and E-MAIL ID to get transaction alerts, other alerts and balance of your account through SMS.

## ABBREVIATIONS USED

Retd - Returned Cheque	SI - Standing Instructions
EC - Error Corrected	CBI - Cheque Book Issue
SP - Stop Payment	ECS - Electronic Clearing Service
INT - Interest	INCHGS - Incidental charges
OBC - Outward Bill for collection	MB - Minimum Balance
DAUE - Drawing Against Uncleared Effect	ISLIXN - Inter sol transactions

This is a computer generated statement.

\*\*\*\*END OF STATEMENT\*\*\*\*

  
Principal,

A.S. Ramaiah College of Arts, Science & Commerce  
MSRIT Post, MSR Nagar  
Bangalore - 560 054



UNIVERSITY OF MADRAS  
Science & Commerce  
Chemistry Dept

Date: 19/01/2022  
Party's GSTIN:

Sl. No.	PARTICULARS	HSN CODE	QTY.	RATE	AMOUNT Rs.
1.	Wooden Memento convert 3 yr Polprofool	15.	10	500	5000
E give thousand only					
Recd for memento May be released					
Sri P. R. Srinivasan Date: 25/1/22					
TOTAL					5000

*Hele*  
Principal,  
Kanniah College of Arts, Science & Commerce  
MSRIT Post, MSR Nagar  
Bangalore - 560 054

For Sri Ram Fine Arts GIFTS & HANDICRAFTS

Bank Details





**RAMAIAH**

College of Arts, Science  
& Commerce

ಎಮ್ ಎಸ್ ರಾಮಯ್ಯ ಕಲಾ, ವಿಜ್ಞಾನ ಮತ್ತು ವಾಣಿಜ್ಯ ಕಾಲೇಜು

**M S Ramaiah College of Arts, Science and Commerce**

Re-accredited 'A' by NAAC, Permanently Affiliated to Bengaluru City University,  
Approved by Government of Karnataka, Approved by AICTE, New Delhi,  
Recognized by UGC under 2f & 12B of UGC act 1956



(National Institutional Ranking Framework, Ministry of Education, Govt of India)  
Ranked 62<sup>nd</sup> in NIRF India Ranking by MHRD, New Delhi

DBT Star College Scheme

REF. NO. : MSRCASC/CHEM-BIOCHEM/2021 - 22/12

Date: 03/01/2022

## CIRCULAR

### **Department of Chemistry / Biochemistry**

Department of Chemistry /Biochemistry is organizing a National level Five days online Faculty Development Program on "Spectroscopic techniques: A tool in contemporary research" from 10 – 14 January 2022. All the Science faculties are requested to attend the program. The program will be held through zoom platform and link will be shared one day before the FDP. Find the attached link below to register for the program:

<https://forms.gle/pWHYZ4W3UAnCDZGJA>

#### Event Coordinators:

**Dr. Ashly P C**

Assistant Professor

Dept. of Chemistry/Biochemistry

**Dr. Vibha Vinayakumar Bhat**

Assistant Professor

Dept. of Chemistry/Biochemistry

**Dr. Harisha S.**

Assistant Professor

Dept. of Chemistry/Biochemistry

  
**HEAD OF THE DEPARTMENT**  
**HOD (PG) Chemistry / Biochemistry**  
**M.S. Ramaiah College of Arts**  
**Science & Commerce**  
**Bangalore-560 054**

  
**PRINCIPAL**  
*Principal,*  
**M.S. Ramaiah College of Arts, Science & Commerce**  
**MSRIT Post, MSR Nagar**  
**Bangalore - 560 054**





**RAMAIAH**  
College of Arts, Science  
& Commerce

ಎಮ್ ಎಸ್ ರಾಮಯ್ಯ ಕಲಾ, ವಿಜ್ಞಾನ ಮತ್ತು ವಾಣಿಜ್ಯ ಕಾಲೇಜು

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(National Institutional Ranking Framework, Ministry of Education, Govt of India)  
Ranked 62<sup>nd</sup> in NIRF India Ranking by MHRD, New Delhi  
DBT Star College Scheme

## Report on Faculty Development Program on 'Spectroscopic techniques: A tool in contemporary research'

**Date: 10-14 January 2022**

**No. of Participants : 145**

Department of Chemistry/ Biochemistry, MSRCASC organised An IQAC initiative National level Five days online Faculty Development Program on Spectroscopic techniques: A tool in contemporary research during 10-14 January 2022. The program was open for faculty members and research students from science background working at various institutes in India. The objective of the program was to bring eminent scientists, faculty members and research students from various institutes to a common gathering for exchanging and sharing the recent developments in the field of spectroscopy. This aims to help them to do better teaching and conduct research activities at their institutes.

The topics covered during the sessions was the fundamentals and applications of:

- Microwave Spectroscopy
- Ultrafast Spectroscopy
- Raman Spectroscopy
- X-ray Photoelectron Spectroscopy
- X-ray Diffraction Spectroscopy
- Nuclear Magnetic Resonance Spectroscopy

All these topics were covered by 5 days in ten sessions as total. Each session was for 2 hours including the lecture and discussion. Eminent scientists from well reputed institutions all over India who are the experts in the field of spectroscopy was chosen as the resource persons of the program.



Principal,

M.S. Ramaiah College of Arts, Science & Commerce

MSRIT Post, MSR Nagar

Bangalore - 560 054

M S Ramaiah Nagar  
MSRIT Post  
Bangalore 560 054

T +91 80 2360 0966/8597  
+91 80 2360 6905  
F +91 80 2360 6213

E principal@msrcasc.edu.in  
W www.msrmc.edu.in

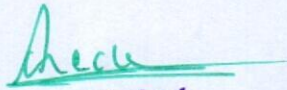


The program was conducted online through zoom platform, broadcasted through YouTube live link and is coordinated by Dr. Ashly P. C., Dr. Vibha Vinayakumar Bhat and Dr. Harisha S., of the Department of Chemistry/Biochemistry, MSRCASC. The program was inaugurated on 10<sup>th</sup> January by Prof. Shivaprasad, Director Karnataka state higher education academy, Dharwad and Professor International centre for material science, JNCASR Bengaluru.

On the first session, Dr. Ashly gave a brief introduction of the program to the participants. The welcome address was given by Mr. Prasanna Kumar, The Head, Department of Chemistry/Biochemistry followed Dr. A. Nagaratna, Principal, MSRCASC. The opening remarks of the program were made by the Chief executive of the Gokula Education Foundation, Shri B. S. Ramaprasad. The introduction of the speaker was done by Dr. Vijayakumar Reddy, MSRCASC.

The program was inaugurated by Dr. Shivaprasad S. M., Director Karnataka state higher education academy, Dharwad and Professor International centre for material science, JNCASR Bengaluru, followed by the keynote address on 'New Paradigm in teaching science'. He started the talk with a quote by Einstein and by a video of our universe in different dimensions and made us to realise how much science has progressed during the last century. He talked about the revolutionary technologies which are in going to change the world and the importance of the change in the education system which will help our students to adapt the change in world. He explained about the active learning strategies and introduced the New Education policy. He stressed that implementing NEP will enable us to produce potential candidates with innovative ideas. It was quite an interactive session, and Prof. Shivaprasad patiently attended all. The session ended at 1.00 pm.

The second session was handled by Dr. Prof. Uday Maitra, Professor, Department of Organic Chemistry, Indian Institute of Science, Bengaluru, on the title, Learning Chemical Principles through Simple Experiments. The session started at 2.00pm with the introduction of the speaker by Dr. Vibha Vinayakumar Bhat. Prof. Maitra started with the safety measures that we must follow in a chemistry lab and showed some simple experiments which makes the chemistry interesting. He surprised the audience by showing the 45 elements used in the smartphone, indicating that many of them will be depleted at the end of the use. He showed various experiments for better understanding on chirality and optical rotation, isotopic effects, oxidising reagents, chemical bonding, nucleophilic substitution reactions, fluorescence etc. The session ended by 3.30 after the interaction with audience members.

  
Principal,  
M.S. Ramaiah College of Arts, Science & Commerce  
MSRIT Post, MSR Nagar  
Bangalore - 560 054



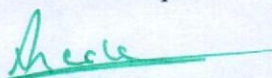
The first session on the second-day program was handled by Prof. Chandrabhas Narayana, Director, Rajiv Gandhi Centre for Biotechnology, Thiruvananthapuram, Professor, Chemistry and Physics of Materials Unit, JNCASR, Bengaluru. His talk was on 'Raman spectroscopy: basics to application'. He started with the basic phenomena of scattering when light falls on. He discussed about the modes of Raman active vibrations, selection rules, energy diagram and explained Raman spectra of some of the molecules.

The afternoon session was Dr. M. Netaji, Chief Research Scientist, Department of Inorganic and Physical Chemistry, Indian Institute of Science, Bengaluru. X-Ray diffraction: basics and applications. He explained the fundamentals of XRD, Braggs equation, basic crystal structures, unit cell, etc. He described about the application of XRD in various fields. The session was concluded by 4 pm.

The third day is started with Prof. E. Arunan, Professor, Department of Inorganic and Physical Chemistry, Indian Institute of Science, Bengaluru. He talked about Molecular Beam Microwave Spectroscopy: Defining Hydrogen Bond and Discovering Carbon Bond. He explained different definitions of H bonds made by various scientists and significance of H bond. He introduced the pulsed nozzle FT microwave spectrometer designed by his group in his lab. He explained the instrumentation and working principles of the instrument. Later he gave the new IUPAC definition of the hydrogen bond as 'the hydrogen bond is an attractive interaction between a hydrogen atom from a molecule or a molecular fragment X-H in which X is more electronegative than H, and an atom or a group of atom in the same or a different molecule, in which there is evidence of bond formation. He explained the difference between hydrogen and halogen bond.

The next session was handled by Prof. Mahesh Hariharan, Professor and Head, School of Chemistry, Indian institute of science education and research, Trivandrum, who talked on Greek Cross (+) Aggregate: A Paradigm for Exciton Isolation. He explained the photochemical reaction mechanisms such as concerted and non-concerted mechanisms. He explained the new dimension of time 'attosecond' and showed a video which narrated extremely fast events in the attosecond time scale. He later gave the development and application of ultra-fast spectroscopic techniques.

On the fourth day, Prof. P. K. Madhu, TIFR Centre for Interdisciplinary Sciences, Tata Institute of Fundamental Research Hyderabad, talk on: Structure and dynamics through the NMR looking glass. He talked about the various stages of development of NMR techniques

  
Principal,  
M.S. Ramaiah College of Arts, Science & Commerce  
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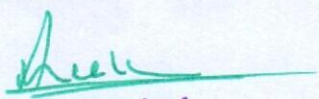


and the significant contribution towards various research fields. He concentrated on solid state NMR and its applications for the structural elucidations of biological molecules.

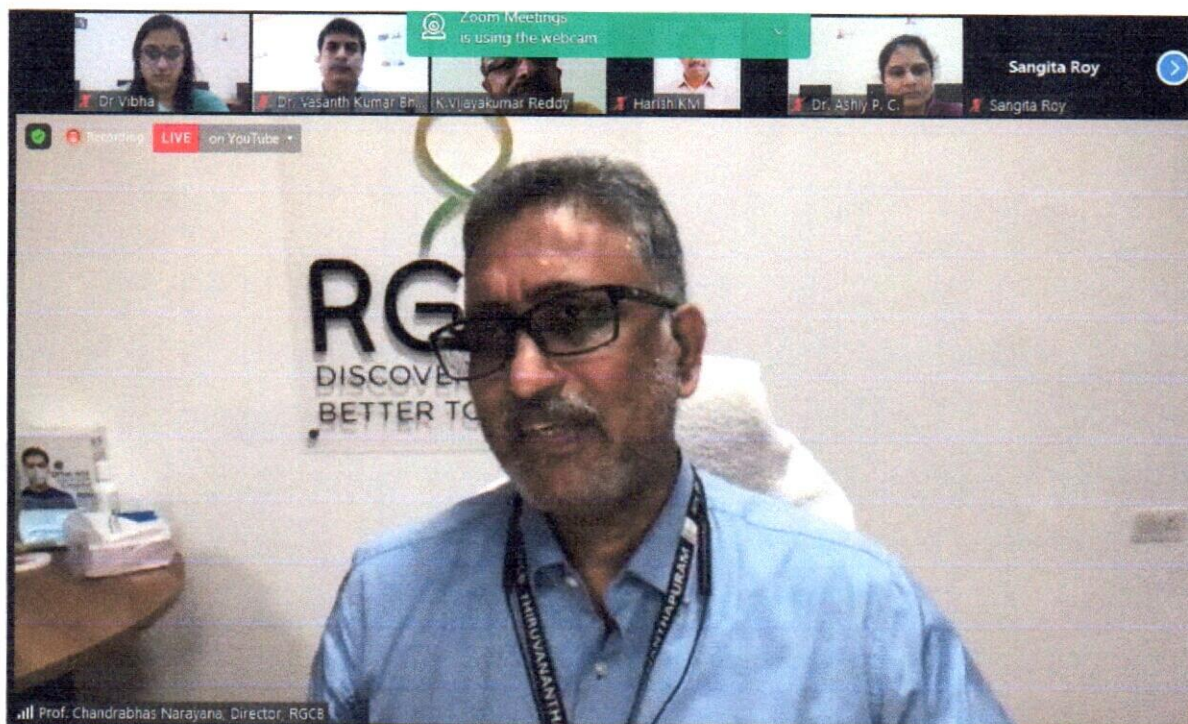
In the session following that day, we had Dr. Pralay Santra , Scientist, Centre for Nano and Soft Matter Sciences, Bengaluru who discussed on 'X-Ray photoelectron spectroscopy - a versatile tool to investigate materials'. He introduced his research works, discussed about the inorganic perovskite quantum dots and their luminescence properties. He explained about different types of high energy electron spectroscopy and historical development of XPS technique.

On the last day of the FDP, Prof. Beeraiah Baire, Associate Professor, Department of Chemistry, Indian Institute of Technology Madras, Chennai, talked on 'NMR Spectroscopy for reaction monitoring and dynamic processes'. He briefed about his research work and group in IITM. He discussed in detail about how proton NMR spectroscopy can be used to understand the mechanism of the reactions.

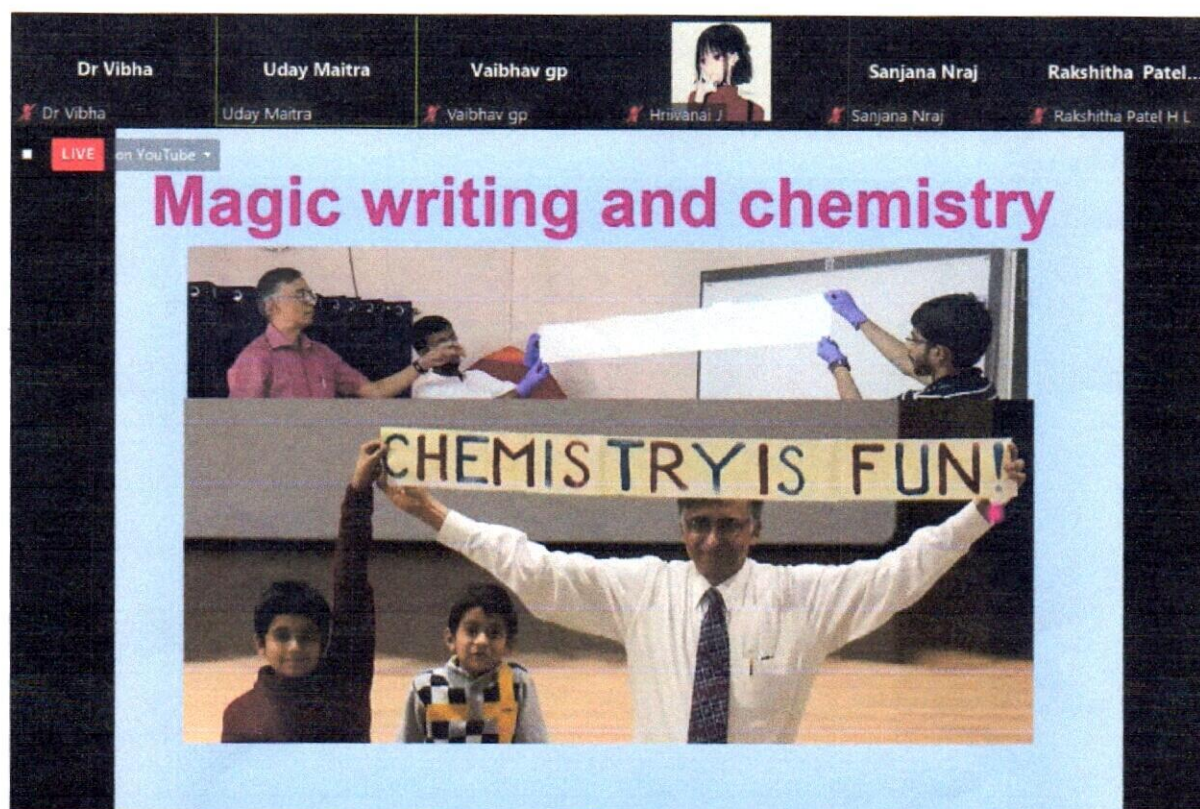
The concluding session of the program was handled by Prof. Sarit S. Agasti, Associate Professor, New Chemistry Unit & Chemistry and Physics of Materials Unit, JNCASR Bengaluru. Dr. Agasty talked on 'imaging life with dynamic molecular interaction'. He concentrated on fluorescence microscopy, the instrumentation, challenges etc.

  
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*Prof. Chandrabhas Narayana is delivering talk on 'Raman Spectroscopy: Basics to application.'*



*Prof. Uday Maitra talking on 'Learning chemistry through simple experiments'*

*Shree*  
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The 5-day FDP on successfully came to an end with the presentation of summary and concluding remarks by Mr. Prasannakumar, HOD of Chemistry/Biochemistry. The program was well received by all the participants and received positive feedback.

**TEACHING - LEARNING EXPERIENCE**

**HEAD Think**

**HEART Feel**

**HANDS Do**

**Cognitive**

Objectives and skills that help you process information. This is where we find Bloom's taxonomy.

**Affective**

Affective objectives deal with feelings, emotion, attitudes, appreciation and preference.

**Psycho-Motor**

Objectives that include those related to motor skills, coordination and physical movement.

**BLOOM'S LEARNING LEVELS:**

Combining parts to make a new whole **Create**

Judging the value of information or ideas **Evaluate**

Breaking down information into component parts **Analyze**

Applying the facts, rules, concepts, and ideas **Apply**

Understanding what the facts mean **Understand**

Recognizing and recalling facts **Remember**

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Keynote address by Prof. Shivaprasad S. M., Director Karnataka state higher education academy, Dharwad, and Professor International centre for material science, JNCASR Bengaluru.

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