



**SRM**  
INSTITUTE OF SCIENCE & TECHNOLOGY  
Deemed to be University u/s 3 of UGC Act, 1956

# Workshop on Experimental Approaches in Materials Characterisation

**(EAMC-2022)**

**11 - 12<sup>th</sup> August 2022**

**Organized by**

Department of Chemistry  
College of Engineering and Technology  
SRM Institute of Science and Technology  
Kattankulathur, 603 203  
Tamil Nadu, India

## CHIEF PATRONS

Dr. T. R. Paarivendhar, Founder Chancellor  
Dr. Ravi Pachamuthu, Pro Chancellor (Admin)  
Dr. P. Sathyanarayanan, Pro Chancellor (Academics)  
Dr. R. Shivakumar, Chairman, SRMIST (Ramapuram and Trichy Campuses)

## ADVISORY COMMITTEE

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Dr. S. Ponnusamy, Registrar, SRMIST  
Dr. T. V. Gopal, Dean, CET, SRMIST  
Dr. A. Duraisamy, Dean, CSH, SRMIST  
Dr. D. John Thiruvadigal, Dean (Sciences), SRMIST  
Dr. B. Neppolian, Dean, Research, SRMIST

## CONVENER

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## CO-CONVENERS

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Email: vengader@srmist.edu.in

**EAMC-2022**  
**11-12<sup>th</sup> August 2022**

## REGISTRATION FORM

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3. Organization: \_\_\_\_\_
4. Mailing Address: \_\_\_\_\_  
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5. Phone No.: \_\_\_\_\_
6. Fax No.: \_\_\_\_\_
7. E-mail: \_\_\_\_\_
8. Accommodation  
Required [ ]  
Not Required [ ]
9. Registration Fees: Rs. \_\_\_\_\_  
Demand Draft Number [ ]  
Online transaction [ ]  
Reference number: \_\_\_\_\_  
Dated: \_\_\_\_\_  
Bank: \_\_\_\_\_

Signature of the Participant

## ABOUT THE INSTITUTION

SRM Institute of Science and Technology is one of the top ranking universities in India with over 52,000 students and 3,200 faculty members, offering a wide range of undergraduate, postgraduate and doctoral programs in Engineering, Management, Medicine, Health sciences and Science and Humanities. It has established itself as a premier centre for teaching, research and industrial consultancy in the country. It has world class infrastructure including smart classrooms, hi-tech labs, advanced instruments and equipments, research laboratories, modern library and Wi-Fi facility. Ministry of HRD, Govt. of India placed SRMIST in category 'A++'.

## ABOUT THE DEPARTMENT

Department of Chemistry, SRM Institute of Science and Technology has been engaged in opening up the fascinating world of Chemistry to students since 1985. The Department is supported by DST FIST, Govt. of India. The Department is offering B.Sc. (Chemistry), M.Sc. (Chemistry) and Ph.D. (Chemistry) programs. It has 55 faculty members whose areas of expertise and research include organic, inorganic, physical, analytical, environmental, electrochemistry and nanotechnology. The faculty members of the department have contributed to academics by publishing books, research articles in high-impact peer-reviewed journals, presenting papers in conferences delivering guest lectures and invited talks. The Department has tie-ups with recognized academic institutions, industries and R&D laboratories for student projects, training and research activities.

## WORKSHOP THEME

The emerging materials ranging from ceramics to thin films and nanomaterials used in technological advancements, with size varying from macro to nano regime, requires a variety of characterization techniques throughout their design and fabrication. Considering this, Department of Chemistry, SRMIST would like to organize a workshop and assemble an interdisciplinary list of renowned experts in materials characterization to transfer their expertise. The workshop provides a conceptual overview of major analytical techniques for materials characterization with demonstration on selected techniques. The workshop aims at providing the participants with a necessary understanding of the principles of material characterization and will enable them to develop a characterization strategy to interpret their own research findings. Following the lectures, the participants will take part in demonstration on selected experimental techniques.

- Transmission electron microscopy (TEM)
- Surface area analysis
- X-ray diffraction (XRD)
- Optical spectroscopy (UV-Vis, PL, TRPL)
- Nuclear magnetic resonance (NMR)
- Electrochemical analysis
- X-ray photoelectron spectroscopy (XPS)

## SUBJECT EXPERTS

Dr. P.G. Anil Kumar, Bruker India Scientific  
Prof. Mahesh Hariharan, IISER, TVM  
Dr. Pragati Chaturvedi, Thermo Fisher Scientific  
Dr. Rishi Gupta, Anton Paar India Pvt. Ltd.  
Dr. M. Sathish, CECRI, Karaikudi  
Prof. T.S.N. Sankaranarayanan, UoM  
Dr. Sukhendu Mandal, IISER, TVM

## CALL FOR PARTICIPATION

Participants should provide their address, email id, telephone, mobile and fax numbers. Registration form should reach the Convener on or before the last date of registration. Registration fees shall be paid by online transaction or by DD drawn in favour of "Chemistry Department Association" payable at Chennai. The online transaction details / DD must be sent to the convener along with the registration form.

For online transfer use the following details:

Name of the Account:

Chemistry Department Association

A/C. no: 500101011069471

Name of Bank: CITY UNION BANK

Branch : Tambaram: IFSC : CIUB0000117

## IMPORTANT DATES

Workshop : 11-12<sup>th</sup> August 2022

Last date for registration: 04<sup>th</sup> August 2022

## ADDRESS FOR COMMUNICATION

All communications may be sent to  
Dr. R. V. K. Mangalam, Res. Assist. Prof  
Email: [vengader@srmist.edu.in](mailto:vengader@srmist.edu.in)

## REGISTRATION FEES

Academic participants: 500 (INR)

Industry participants: 2000 (INR)

# Workshop on Experimental Approaches in Materials Characterisation (EAMC-2022)



## PROGRAMME SCHEDULE

Venue: Dr. T. P. Ganesan Auditorium - Mini Hall 2

11 August 2022	
08:30 AM - 09:00 AM	<b>Registration</b>
09:00 AM - 10:30 AM	<b>Inaugural Function</b> Invocation <b>Welcome Address</b> <b>Prof. M. Arthanareeswari</b> HoD Chemistry <b>Presidential Address</b> <b>Prof. B. Neppolian</b> Dean (Research) <b>Invited Talk – 1</b> <b>Prof. Mahesh Hariharan</b> IISER Thiruvananthapuram <i>Ultrafast Excited State Dynamics of Twisted Aromatics</i>
10.30 AM - 10:45 AM	Tea Break
10:50 AM - 11:50 AM	<b>Invited Talk – 2</b> <b>Prof. Sukhendu Mandal</b> IISER Thiruvananthapuram <i>X-Ray Diffraction Technique: Unique Tool for Structure-Property Correlation</i>
12:00 Noon - 01:00 PM	<b>Invited Talk – 3</b> <b>Prof. T.S.N. Sankara Narayanan</b> University of Madras <i>Electrochemical Methods in Corrosion Research</i>
01:00 PM - 02:00 PM	Lunch

# Workshop on Experimental Approaches in Materials Characterisation (EAMC-2022)



## 11 August 2022

02:00 PM - 03:00 PM	<b>Invited Talk – 4</b> <b>Dr. M. Sathish</b> CECRI, Karaikudi <i>Transmission Electron Microscopy: Basics and Applications</i>
03:00 PM – 3:15 PM	Tea Break
03:15 PM - 05:15 PM	<b>Demonstration Session</b>

## 12 August 2022

09:30 AM - 10:30 AM	<b>Invited Talk – 5</b> <b>Dr. Pragati Chaturvedi</b> Thermo Fisher Scientific <i>Surface Analysis using X-ray Photoelectron Spectroscopy</i>
10:30 AM - 10:45 AM	Tea Break
10:50 AM - 11:50 AM	<b>Invited Talk – 6</b> <b>Dr. P. G. Anilkumar</b> Bruker India Scientific Pvt. Ltd. <i>NMR Spectroscopy: Basics and Applications</i>
12:00 Noon - 01:00 PM	<b>Invited Talk – 7</b> <b>Dr. Rishi Gupta</b> , Anton Paar India Pvt. Ltd. Materials Characterisation - Surface and Porosity
01:00 PM - 02:00 PM	Lunch
02:00 PM - 04:00 PM	<b>Demonstration Session</b>
04:00 PM - 04:15 PM	<b>Valedictory Function</b>
04:15 PM - 04:30 PM	Tea



## Workshop Report

### Workshop on Experimental Approaches in Materials Characterisation (EAMC-2022)

The Department of Chemistry, SRM Institute of Science and Technology (SRMIST) organized the Workshop on Experimental Approaches in Materials Characterisation (EAMC - 2022) during 11-12, August 2022 at the SRMIST, Dr. T. P. Ganesan Auditorium (Mini Hall-2). The theme of the workshop is to provide the participants with a necessary understanding of the principles of material characterization and enable them to develop a characterization strategy to interpret their own research findings. Around 250 participants attended the workshop from different institutions and seven eminent researchers and technologists delivered scientific lectures on various characterization techniques.



The inauguration of the workshop EAMC-2022 commenced with the invocation. **Prof. M. Arthanareeswari**, Convenor EAMC-2022 welcomed the delegates and gave the welcome address. **Prof. B. Neppolian**, Dean Research gave the Presidential address and highlighted the importance of characterization of materials. This was followed by technical program where talks given by invited speakers with expertise in

material characterization. The workshop totally had 7 invited talks and 8 equipment demonstration.

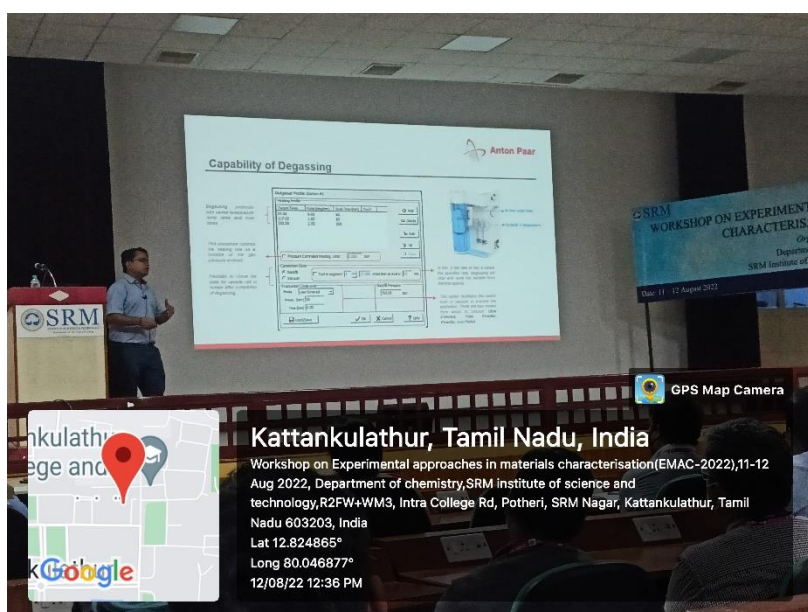
The first day had four invited talks. The first talk started with the lecture by **Prof. Mahesh Hariharan**, IISER Thiruvananthapuram on 'Ultrafast Excited State Dynamics of Twisted Aromatics' particularly basics on time resolved spectroscopy. The second talk was Invited Talk – 2 given by **Dr. Sukhendu Mandal**, IISER Thiruvananthapuram on 'X-Ray Diffraction Technique: Unique Tool for Structure-Property Correlation'. The third invited talk in this series was given by **Prof. T.S.N. Sankara Narayanan**, University of Madras on 'Electrochemical Methods in Corrosion Research'. The 4<sup>th</sup> Invited Talk was given by **Dr. M. Sathish**, CECRI, Karaikudi on 'Scanning/Transmission Electron Microscopy: Basics and Applications'. This brings to the next session where demonstration of sophisticated instruments/equipments such as Surface area, TEM, SEM, CV, TRPL, NMR, XRD, XPS were shown (with 125 participants) with the help of faculties and volunteers.



The second day of the workshop, morning session started with the Invited Talk – 5 by **Dr. Pragati Chaturvedi**, Thermo Fisher Scientific on 'Surface Analysis using X-ray Photoelectron Spectroscopy'.



This was followed by invited talk, by **Dr. P. G. Anilkumar**, Bruker India Scientific Pvt. Ltd. on 'NMR Spectroscopy: Basics and Applications'.



The last talk was given by **Dr. Rishi Gupta**, Anton Paar India Pvt. Ltd. On 'Materials Characterisation - Surface and Porosity'.









The last session had demonstration of instruments with remaining batch of participants. After the demonstration, in valedictory program, report of the workshop was presented by **Dr. K. K. R. Datta**, co-convenor of EAMC-2022 followed by receiving the feedbacks from the participants. The feedbacks received from the participants majorly highlighted the importance of the workshop and the expertise of the speakers including the importance of demonstration session. **Dr. R. V. K. Mangalam**, co-convenor of EAMC-2022 presented the vote of thanks.

Prof. M. Arthanareeswari  
**Convener of EAMC-2022**

Dr. K. Ananthanarayanan, Res. Assoc. Prof.  
Dr. K. K. R. Datta, Res. Assoc. Prof.  
Dr. S. Shanmugan, Assoc. Prof.  
Dr. R. V. K. Mangalam, Res. Assist. Prof

**Co-conveners of EAMC-2022**



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### REGISTRATION FORM

EAMC-2022  
11-12<sup>th</sup> August 2022

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- Not Required ☒
9. Registration Fees: Rs. 500
- Demand Draft Number ☐
- Online transaction ☒
- Reference number: 221618092509
- Dated: 04.08.2022
- Bank: SBI

S. Sivraj  
Signature of the Participant



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9. Registration Fees: Rs. 500

Demand Draft Number ☐

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Demand Draft Number [ ]

Online transaction [Yes ]

Reference number: 221535290547

Dated: 03.08.2022

Bank: SBI

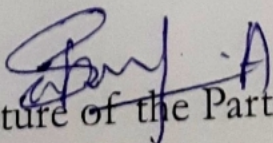
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11-12<sup>th</sup> August 2022

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- Bank: State Bank of India

  
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11-12<sup>th</sup> August 2022

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- Demand Draft Number ☐
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- Dated: 28/07/22
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# SRM

INSTITUTE OF SCIENCE & TECHNOLOGY  
(Deemed to be University u/s 3 of UGC Act, 1956)

**SRM Institute of Science and Technology**  
**Kattankulathur, Tamil Nadu, India**  
**Department of Chemistry**

## CERTIFICATE OF PARTICIPATION

This is to certify that  
**Premkumar.J**

Research Scholar

SRM Institute of Science and Technology, Kattankulathur  
has participated in the workshop entitled "Experimental Approaches in Materials Characterisation  
(EAMC-2022)" organized by Department of Chemistry, SRM Institute of Science and Technology,  
Kattankulathur, Tamil Nadu, India on 11 - 12<sup>th</sup> August 2022.

Prof. M. Arthanareeswari  
(Convener & Head)  
Department of Chemistry, SRM IST

Prof. B. Neppolian  
(Dean Research)  
SRM IST





**SRM**

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**SRM Institute of Science and Technology**  
**Kattankulathur, Tamil Nadu, India**  
**Department of Chemistry**

## **CERTIFICATE OF PARTICIPATION**

This is to certify that

**Arun A**

Research scholar

SRM Institute of Science and Technology, Kattankulathur  
has participated in the workshop entitled "Experimental Approaches in Materials Characterisation  
(EAMC-2022)" organized by Department of Chemistry, SRM Institute of Science and Technology,  
Kattankulathur, Tamil Nadu, India on 11 - 12<sup>th</sup> August 2022.

*M. Arthanareeswari*

Prof. M. Arthanareeswari  
(Convener & Head)  
Department of Chemistry, SRM IST

*B. Neppolian*

Prof. B. Neppolian  
(Dean Research)  
SRM IST





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**SRM Institute of Science and Technology**  
**Kattankulathur, Tamil Nadu, India**  
**Department of Chemistry**

## **CERTIFICATE OF PARTICIPATION**


This is to certify that

**M. Utaiyachandran**

Research scholar

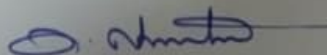
Periyar University

has participated in the workshop entitled "Experimental Approaches in Materials Characterisation (EAMC-2022)" organized by Department of Chemistry, SRM Institute of Science and Technology, Kattankulathur, Tamil Nadu, India on 11 - 12<sup>th</sup> August 2022.

  
Prof. M. Arthanareeswari

(Convener & Head)

Department of Chemistry, SRM IST



Prof. B. Neppolian

(Dean Research)

SRM IST



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**SRM Institute of Science and Technology**  
**Kattankulathur, Tamil Nadu, India**  
**Department of Chemistry**

## **CERTIFICATE OF PARTICIPATION**

This is to certify that

**A.DHARSHINI**

Research scholar

ANNA UNIVERSITY

has participated in the workshop entitled "Experimental Approaches in Materials Characterisation (EAMC-2022)" organized by Department of Chemistry, SRM Institute of Science and Technology, Kattankulathur, Tamil Nadu, India on 11 - 12<sup>th</sup> August 2022.

**Prof. M. Arthanareeswari**  
(Convener & Head)

Department of Chemistry, SRM IST

**Prof. B. Neppolian**  
(Dean Research)

SRM IST

Organized by  
DEPARTMENT OF CHEMISTRY  
SRM Institute of Science and Technology, Kattankulathur - 603 203

**FEED BACK FORM**

Dear Delegate,

Kindly fill up this form and return:

1. Did you feel that the correspondence prior to the workshop via email was satisfactory?

Yes, Good.

2. Please describe the overall strength of the workshop.

All presenters' presentations have the most valuable content. The schedule is not dragging at all. We can learn a lot from the demo session.

3. Did the workshop live up to your expectations?

Is ~~was~~ really well, just upon the expectation.

4. Please list anything you particularly liked about the workshop.

\* Punctuality.

\* Communication.

\* Talks. (Presentation).

5. What could have been improved?

@I'm sorry to say this, some of the participants ~~could~~ were not have seats.

Thank you for your comments. We appreciate your feedback.



Organized by  
DEPARTMENT OF CHEMISTRY  
SRM Institute of Science and Technology, Kattankulathur - 603 203

**FEED BACK FORM**

Dear Delegate,

Kindly fill up this form and return:

1. Did you feel that the correspondence prior to the workshop via email was satisfactory?

YES, But I expected the demonstration of instruments list should also be given prior info before the function via mail.

2. Please describe the overall strength of the workshop.

The environment was good. Some of the lectures was really good.

3. Did the workshop live up to your expectations?

I was happy to be visiting this institution, I expected the time of demonstration should be more, We were asked to communicate the instrument people for a short time. I hope the time of interaction should be extended.

4. Please list anything you particularly liked about the workshop.

We were comfortable, we were happy to attend this workshop. Good hospitality.

5. What could have been improved?

Lecture time should be extended even workshop time should be extended to a week. We were taught basics we expected to go some deep into topics. Demonstration time should be increased. Even more instruments can be shown.

Thank you for your comments. We appreciate your feedback.

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DEPARTMENT OF CHEMISTRY  
SRM Institute of Science and Technology, Kattankulathur – 603 203

**FEED BACK FORM**

Dear Delegate,

Kindly fill up this form and return:

1. Did you feel that the correspondence prior to the workshop via email was satisfactory?

*e-mail response was too good and satisfactory*

2. Please describe the overall strength of the workshop.

*Workshop was very useful with important and innovative topics*

3. Did the workshop live up to your expectations?

*yes, workshop was more than what I expected.*

4. Please list anything you particularly liked about the workshop.

*The most foremost thing I admired was the demonstration session. Demonstration on instruments was very much useful. Especially professors on instruments were very patient and elegant in explaining and clearing the doubts.*

5. What could have been improved?

*only one what I felt was that on demonstration, we felt all the instrumentations on one day and felt dumped. Slightly it might be in a relaxed manner.*

Thank you for your comments. We appreciate your feedback.



11 - 12<sup>th</sup> August 2022

Organized by  
DEPARTMENT OF CHEMISTRY  
SRM Institute of Science and Technology, Kattankulathur - 603 203

**FEED BACK FORM**

Dear Delegate,

Kindly fill up this form and return:

1. Did you feel that the correspondence prior to the workshop via email was satisfactory?

Yes, I feel very Satisfactory.

2. Please describe the overall strength of the workshop.

Invited talks was very nice & excellent  
information,  
Demonstration is well.

3. Did the workshop live up to your expectations?

Good  
Thank you for this arrangement on this  
workshop. Thanks again for the accomodation

4. Please list anything you particularly liked about the workshop.

NMR,

XRD

SEM

5. What could have been improved?

We like & need still Demonstration time you should  
make the run sample, to detect the  
peak value to find Participant,

Thank you for your comments. We appreciate your feedback.

Organized by  
DEPARTMENT OF CHEMISTRY  
SRM Institute of Science and Technology, Kattankulathur – 603 203

**FEED BACK FORM**

Dear Delegate,

Kindly fill up this form and return:

1. Did you feel that the correspondence prior to the workshop via email was satisfactory?

yes

2. Please describe the overall strength of the workshop.

Demonstrations of various ~~of~~ Instruments were nice and easily understandable.

3. Did the workshop live up to your expectations?

yes

4. Please list anything you particularly liked about the workshop.

Both lectures and demonstration were really good and ~~easy~~ easy to understand.

5. What could have been improved?

Accommodations, we couldn't have a room and asked to stay with ~~the~~ other student's room

Thank you for your comments. We appreciate your feedback.





WORKSHOP ON EXPERIMENTAL APPROACHES IN MATERIALS  
CHARACTERISATION (EAMC-2022)  
11 - 12<sup>th</sup> August 2022

Organized by  
DEPARTMENT OF CHEMISTRY  
SRM Institute of Science and Technology, Kattankulathur – 603 203

FEED BACK FORM

Dear Delegate,

Kindly fill up this form and return:

1. Did you feel that the correspondence prior to the workshop via email was satisfactory?

Yes.

2. Please describe the overall strength of the workshop.

Demonstration part was really great. ~~every~~.  
Every staff demonstrated ~~very~~ clearly and cleared  
our doubts well.

3. Did the workshop live up to your expectations?

Yes.

4. Please list anything you particularly liked about the workshop.

Lecture & demonstration both were really good.

5. What could have been improved?

Accommodation

Thank you for your comments. We appreciate your feedback.

Organized by  
DEPARTMENT OF CHEMISTRY  
SRM Institute of Science and Technology, Kattankulathur - 603 203

**FEED BACK FORM**

Dear Delegate,

Kindly fill up this form and return:

1. Did you feel that the correspondence prior to the workshop via email was satisfactory?

Yes

2. Please describe the overall strength of the workshop.

This workshop was really helpful for me. Since I'm a research scholar, we have to carry out many of the characterizations. This workshop helped us to get a clear idea about that.

3. Did the workshop live up to your expectations?

Yes. Everything was well organised and very informative.

4. Please list anything you particularly liked about the workshop.

Facilities provided by the authority and also the punctuality what they maintained.

5. What could have been improved?

If any demonstration or teaching of softwares that are used for characterisation is also included, it will be very nice (like MestReNova, Topspin etc.)  
Thank you for your comments. We appreciate your feedback.



11 - 12<sup>th</sup> August 2022

Organized by  
DEPARTMENT OF CHEMISTRY  
SRM Institute of Science and Technology, Kattankulathur – 603 203

**FEED BACK FORM**

Dear Delegate,

Kindly fill up this form and return:

1. Did you feel that the correspondence prior to the workshop via email was satisfactory?

*Yes, it is satisfactory*

2. Please describe the overall strength of the workshop.

*The organization of workshop is good. The session was very good.*

3. Did the workshop live up to your expectations?

*Yes, speakers gives depth, layman definition so I like it*

4. Please list anything you particularly liked about the workshop.

*The taking picture during movement of object.*

*The liquid samples can take in xps by freezing*

5. What could have been improved?

*good.*

Thank you for your comments. We appreciate your feedback.

Organized by  
DEPARTMENT OF CHEMISTRY  
SRM Institute of Science and Technology, Kattankulathur – 603 203

**FEED BACK FORM**

Dear Delegate,

Kindly fill up this form and return:

1. Did you feel that the correspondence prior to the workshop via email was satisfactory?

Yes.

2. Please describe the overall strength of the workshop.

Workshop was so productive. The facilities provided from the authorities was upto my expectations

3. Did the workshop live up to your expectations?

Definitely. It was good enough.

4. Please list anything you particularly liked about the workshop.

Punctuality maintained very well.  
Everything was well-organized.

5. What could have been improved?

Non-veg food can be included

Thank you for your comments. We appreciate your feedback.