

DAY  
3

<b>SESSION 1</b>	<b>9:30 AM – 10:50 AM</b>
Session Chair	Dr. Roshitha Kuniyil (IIT Palakkad)
Speaker	Prof. (Dr.) Rodney A. Fernandez (IIT Bombay)
Topic	<i>Step – Economic Total Synthesis of Selected Natural Products</i>
Student Lecture 10	10:30 AM – 10:40 AM
Student Lecture 11	10:40 AM – 10:50 AM
Tea Break (10:00 AM – 11:00 AM)	
<b>SESSION 2</b>	<b>11:00 AM – 12:30 PM</b>
Session Chair	Dr. Suresh Mathew (Professor of Eminence, SCS, MG University)
Speaker	Prof. S. Sampath (IISc Bangalore)
Topic	<i>Materials and Interfaces in Electrochemistry</i>
Student Lecture 12	12:00 PM – 12:10 PM
Student Lecture 13	12:10 PM – 12:20 PM
Student Lecture 14	12:20 PM – 12:30 PM
Lunch Break (12:30 PM – 2:00 PM)	
<b>SESSION 3</b>	<b>2:00 PM – 3:10 PM</b>
Session Chair	Dr. Sreekala M. S (Associate Professor, SCS, MG University)
Speaker	Dr. Jatish Kumar (IISER Tirupati)
Topic	<i>Chiral Nanomaterials: An Optical Twist in the Nanoworld</i>
Student Lecture 15	3:00 PM – 3:10 PM
Tea Break (3:10 PM – 3:20 PM)	
<b>SESSION 4</b>	<b>3:20 PM – 4:20 PM</b>
Session Chair	Dr. Jatish Kumar (IISER Tirupati)
Speaker	Dr. Roshitha Kuniyil (IIT Palakkad)
Topic	<i>Transition State Model for the Chemical Hydrogen Battery</i>
Student Lecture 16	4:10 PM – 4:20 PM
<b>VALEDICTORY FUNCTIONS (4:20 PM – 5:00 PM)</b>	

### Organising Committee

- Prof. Raju Francis (Professor, School of Chemical Sciences)
- Prof. Anitha C Kumar (Professor & Director, School of Chemical Sciences)
- Dr. S. Anas ((Associate Professor, School of Chemical Sciences)
- Dr. Sreekala M.S (Associate Professor, School of Chemical Sciences)
- Dr. Sunilkumar P. N (Associate Professor, School of Chemical Sciences)
- Dr. Noufal Kandoth (Associate Professor, School of Chemical Sciences)
- Dr. K. B Subila (Assistant Professor, School of Chemical Sciences)
- Dr. Aneesa P (Assistant Professor, School of Chemical Sciences)
- Dr. Ditty Dixon (Associate Professor, School of Chemical Sciences & Co convenor, RACS-2025)
- Dr. Chithra Mohan (Assistant Professor, School of Chemical Sciences & Convenor, RACS-2025)

### Guidelines for Poster/Oral presentation:

- Abstract : Poster/Oral (Max 500/2000 words with relevant references in pdf format)
- Font: Times New Roman, Size: 12, Line spacing 1.5
- Abstract should contain a brief Introduction, Materials & Methods, Results & Discussion, and References.
- Posters should be prepared by strictly following the Green protocol (Max. size 90 x 120 cm)

### Registration Deadline: Aug 05, 2025

#### Registration Fees

Students	: ₹ 500/-
Teachers	: ₹ 750/-
Industry	: ₹ 1000/-

For Registration  
<https://forms.gle/RaUfzDGyaiVF7nQP9>

Account No - 67011544689, IFSC - SBIN0070669

For More Details, Contact  
 Convenor, RACS-2025

Email: 2025racs@gmail.com

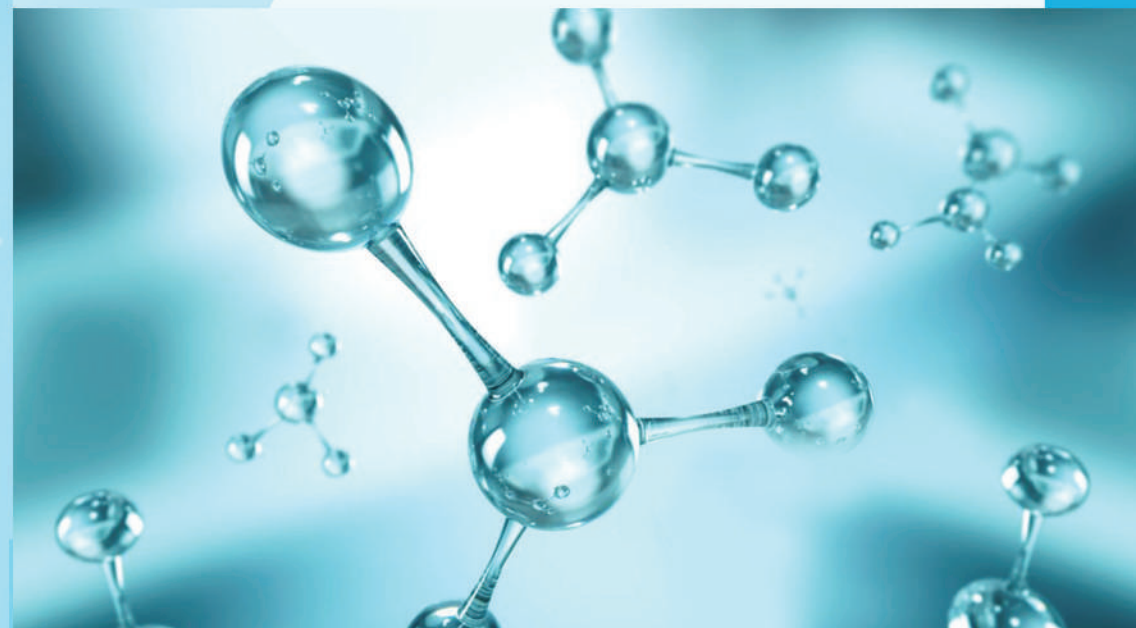
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Visit : <https://scs.mgu.ac.in/racs-2025/>



# School of Chemical Sciences

## MAHATMA GANDHI UNIVERSITY



## National Conference on RECENT ADVANCES IN CHEMICAL SCIENCES (RACS-2025)

2025 AUGUST 21 22 23

Organized by  
 School of Chemical Sciences  
 Mahatma Gandhi University, Kottayam

Supported by  
 ANRF  
 Government of India

# RACS - 2025

Dear Sir/Madam,



We are pleased to inform you that the School of Chemical Sciences, Mahatma Gandhi University, Kottayam is organizing a National Conference on "Recent Advances in Chemical Sciences (RACS-2025)", scheduled to be held from 21<sup>st</sup> to 23<sup>rd</sup> August 2025. The primary objective of the conference is to provide insights into recent developments across various domains of chemical science. The event will serve as a platform for knowledge exchange, featuring presentations by distinguished eminent and leading academicians as well as industry experts serving in reputed institutions across the country. Participants are also encouraged to showcase their work during the poster /oral presentation sessions. We would be honoured by your gracious presence at the conference and look forward to your participation.

Director  
SCS

Thanking You

Your Sincerely  
Convenor, RACS-2025



## PROGRAMME SCHEDULE

21<sup>st</sup> August 2025, Thursday

8.30 am	: Registration
9.15 am	: Inaugural Session
Welcome	: <b>Dr. Chithra Mohan</b> (Convenor, RACS-2025)
Presidential Address	: <b>Prof. (Dr.) Anitha C Kumar</b> (Director, School of Chemical Sciences)
Inauguration	: <b>Prof. (Dr.) C. T. Aravindakumar</b> (Hon'ble Vice-Chancellor, Mahatma Gandhi University)
Felicitations	: <b>Dr. Seno Jose</b> (Syndicate Member, Mahatma Gandhi University)
Vote of Thanks	: <b>Dr. Ditty Dixon</b> (Co convenor, RACS-2025)

## TECHNICAL SESSIONS

DAY 1	SESSION 1	: 10 AM – 11:15 AM
	Session Chair	: Dr. Anoop Ayyappan (Digital University Kerala, Thiruvananthapuram)
	Speaker	: Prof. Srivari Chandrasekhar (Former Secretary (DST), Chief Scientific Adviser, PI Industries)
	Topic	: <i>Ideal Synthesis of Small Molecules towards a Sustainable Future</i>
	Student Lecture 1	: 11:05 AM – 11:15 AM
	Tea Break (11:15 AM – 11:30 AM)	
	SESSION 2	: 11:30 AM - 12:45 PM
	Session Chair	: Dr. S. Anas (SCS, MG University)
	Speaker	: Dr. Prathama S. Mainkar (PI Health Sciences Ltd., Hyderabad)
	Topic	: <i>Design and Synthesis of Peptide Involving Non-Natural Amino Acids</i>
	Student Lecture 2	: 12:35 PM - 12:45 PM
DAY 1	Lunch Break (12:45 PM – 2:00 PM)	
	SESSION 3	: 2:00 PM - 3:00 PM
	Session Chair	: Dr. Sunil Kumar P. N (SCS, MG University)
	Speaker	: Dr. Tom Thomas (Syner-G Biopharma Group, Bangalore)
	Topic	: <i>Recent Advances and Challenges in the Pharmaceutical Industry</i>
	Tea Break (3:00 PM – 3:15 PM)	
	SESSION 4	: 3:15 PM - 4:30 PM
	Session Chair	: Prof. (Dr.) G. Anilkumar (Professor of Eminence, SCS, MG University)
	Speaker	: Dr. Anoop Ayyappan (Digital University Kerala, Thiruvananthapuram)
	Topic	: <i>Structure Discovery in Atomic and Molecular Clusters; From Global Optimization to Machine Learning Potentials</i>
	Student Lecture 3	: 4:20 PM - 4:30 PM
DAY 2	SESSION 1	: 9:30 AM - 10:50 AM
	Session Chair	: Dr. Priya Kumari C. P (IISER Mohali)
	Speaker	: Prof. Suresh C. H (SRIBS Kottayam)
	Topic	: <i>MESP Topology has a Quantum Chemical Lens into Chemical Reactivity</i>
	Student Lecture 4	: 10:30 AM - 10:40 AM
	Student Lecture 5	: 10:40 AM - 10:50 AM
	Tea Break (10:50 AM – 11:00 AM)	
	SESSION 2	: 11:00 AM - 12:15 PM
	Session Chair	: Dr. Joshy Joseph (NIIST Thiruvananthapuram)
	Speaker	: Dr. Susanta Hazra (IISc Bangalore)
	Topic	: <i>Micellar Nano Technology as a Promising Alternative Approach for Carrying out Organic Reactions in Water: Worst Enemy Becomes Best Friend in Organic Synthesis</i>
	Student Lecture 6	: 12:05 PM - 12:15 PM
DAY 2	SESSION 3	: 12:15 PM - 1:15 PM
	Session Chair	: Dr. Noufal Kandath (SCS, MG University)
	Speaker	: Mr. Somnath Das (Unilever, Bangalore)
	Topic	: <i>Industrial Research: Perspective from the FMCG Lens</i>
	Lunch Break (1:15 PM – 2:00 PM)	
	SESSION 4	: 2:00 PM - 3:15 PM
	Session Chair	: Dr. Subila K. B (SCS, MG University)
	Speaker	: Dr. Priya Kumari C.P (IISER Mohali)
	Topic	: <i>How Unique is the Chemical Bonding in Phase-Change Materials?</i>
	Student Lecture 7	: 3:05 PM - 3:15 PM
DAY 2	Tea Break (3:15 PM – 3:30 PM)	
	SESSION 5	: 3:30 PM - 4:55 PM
	Session Chair	: Dr. Krishnan Kartha Kalathil (SCS, MG University)
	Speaker	: Mr. Sreejith Chengazhassery (Manager, Elite Group)
	Topic	: <i>Gaps in Soft Skills Between Academia and Industry</i>
	Student Lecture 8	: 4:35 PM - 4:45 PM
	Student Lecture 9	: 4:45 PM - 4:55 PM
	POSTER PRESENTATION (5.00 PM – 6:00 PM)	
	MUSIC CONCERT BY SUMESH PARAMESWAR (6.00 PM – 7.30 PM)	
	Dinner (7.30 PM – 8:30 PM)	