

**DEPARTMENT OF COMMERCE**  
**SCHOOL OF SOCIAL SCIENCE AND HUMANITIES**  
**B.S.ABDUR RAHMAN CRESCENT INSTITUTE OF SCIENCE AND TECHNOLOGY**  
**International Guest Lecture**  
**22.2.2024**

**VENUE – SEMINAR HALL, MANAGEMENT STUDIES**

The Department of Commerce BSACIST organised **International Guest Lecture** on **"Achieving Sustainable Development Goals by Technology and Business Resilience"** Prof. Dr. MBN Ismail, Professor in Management, Faculty of Management and Commerce, South Eastern University of Sri Lanka.



**B.S. Abdur Rahman Crescent Institute of Science and Technology**  
**Department of Commerce**  
**School of Social Sciences and Humanities**  
*Cordially invite you to the event of*  
**INTERNATIONAL GUEST LECTURE**  
on  
**"ACHIEVING SUSTAINABLE DEVELOPMENT GOALS BY TECHNOLOGY AND BUSINESS RESILIENCE"**  
**Feb 22<sup>nd</sup> 2024 (Thursday) 10.00am**  
**Venue Seminar Hall, Management Studies**

**Guest Speaker**  
**Prof. Dr. MBN Ismail**  
Professor in Management  
Faculty of Management and Commerce,  
South Eastern University of Sri Lanka.

**ALL ARE WELCOME**

**Dr. K. Soundarapandiyan**  
Associate Professor & Head  
Department of Commerce

**Dr. N. Kogila**  
Coordinator  
Asst.Prof, Commerce

**Dr. D. Ayub Khan Dawood**  
Professor & Dean  
School of Social Science  
and Humanities

**Dr. T. Selvakumar**  
Coordinator  
Asst.Prof, Commerce

The session started with the blessings of the Almighty, proceedings with a soul-stirring qirath by Dr. Sibgathullah Nasir followed by a welcome speech by Dr.Ayub khan Dean, School of Social Science and Humanities (SSSH) and Dr.T.Selvakumar, Assistant Professor, Department of Commerce introduced the Chief Guest for the day.



First and second year B.Com (Hons) and First year and third year BBA students were the audience. Prof. Dr. MBN Ismail, explained about, aimed to explore the intersection of technology and business resilience in the context of advancing sustainable development globally.







The lecture commenced with an overview of the United Nations Sustainable Development Goals (SDGs) and their significance, he highlighted the pivotal role of technology in driving progress towards the SDGs, and the concept of business resilience and its intrinsic link to sustainability.



He explains the challenges hindering the effective implementation of technology-driven solutions for sustainable development and he shared practical insights and recommendations for stakeholders, including businesses, governments, and civil society organizations, on leveraging technology and fostering business resilience to accelerate progress towards the SDGs.



The Guest Lecture provided a thought-provoking discussion on the critical nexus between technology, business resilience, and sustainable development. Participants gained valuable insights into innovative approaches for addressing global challenges and advancing the SDGs agenda. The session was interesting and informative.







Finally the session came to an end with the vote of thanks Dr.N.Kogila, Assistant Professor Department of Commerce extend sincere gratitude to Prof. Dr. MBN Ismail for sharing their expertise and insights during the lecture.

## TESTIMONIAL BY STUDENTS



Irshath Mohammed A (III BBA General)

*"Professor MBM Ismail sir's guest lecture on leveraging technology and fostering business resilience to achieve sustainable development goals was enlightening. His insightful perspective and practical strategies left us inspired and equipped to tackle complex global challenges. A truly engaging session that sparked valuable discussions and empowered us to drive positive change."*



Sumetha (I B.Com Hons)

*Thanks to Dr.Mbm ismail sir, for the discussion on business resilience resonated deeply with me, as it underscored the significance of building adaptive and agile organizations capable of weathering disruptions while maintaining a commitment to sustainability. Learning about strategies such as circular economy models, supply chain optimization, and risk mitigation frameworks highlighted how businesses can not only survive in a rapidly changing world but also thrive by aligning their operations with environmental and social objectives."*



Sameer shaick s (I BBA General)

*Achieving sustainable development goals through technology and business resilience is crucial. Technology can play a significant role in addressing global challenges and promoting sustainable practises. By leveraging innovation and resilience in business,*

*we can create a positive impact on the environment, society and the economy. Thanks for the department of commerce and the respective faculty for arranging a program with a great knowledge. This program gave a good idea about the business strategies and development*

**Dr. Ayub Khan Dawood**  
Professor and Dean,  
School of Social Sciences and  
Humanities, BSACIST

**Dr.K.Soundarapandiyan**  
Organizing Secretary  
Associate Professor & Head  
Department of Commerce, BSACIST

**Dr.N.Kogila**  
Event Coordinator  
Assistant Professor  
Department of Commerce, BSACIST

**Dr.T.Selvkumar**  
Event Coordinator  
Assistant Professor  
Department of Commerce, BSACIST

### **Report on Guest Lecture**

Department of Chemistry organized a Guest Lecture on the topic of 'The story of Climate change, Hydrogen and Mars landing' by the resource person Dr. Iyappan Arunkumar, Founder & Chairman of AnA startups Korea & India on 19<sup>th</sup> November 2024, Tuesday from 10.00 am to 11.30 am in CIIC Seminar Hall. The conveners of the Programme is Dr. I. Raja Mohamed, Professor and Dean (SPCS) and Dr. N. Hajarabeevi, Professor and Head, Department of Chemistry. The Coordinator of the programme was Dr. Jasmine Annajothi Jacob, Assistant Professor, Department of Chemistry. In this Guest lecture, M.Sc. Chemistry students and Faculty of Chemistry Department were participated. This programme was started with Qirath by Mr. Mohammad Hisham, first year M.Sc. student. Welcome address was given by Dr. N. Hajarabeevi, Professor & Head, Department of Chemistry. The introduction of Guest was given by Dr. Jasmine Annajothi Jacob, Assistant Professor, Department of Chemistry. Dr. Iyappan Arunkumar gave the lecture on the given topic and also career guidance to the students. After this the programme was concluded with vote of thanks by the coordinator Dr. Jasmine Annajothi Jacob.

After the completion of the programme the guest was taken to visit CIIC and finally he has received a startup permission in CIIC.













**International Conference on “Smart Materials for Green Energy & Environmental Sustainability (SMaGEES 2024), 11 & 12 December 2024**

**Report**

Day of event : 11.12.2024 and 12.12.2024  
Mode of conduct : Offline  
No. of delegates attended : ~300  
Departments involved : Department of Chemistry and Physics

**Event Details:**

On behalf of the School of Physical and Chemical Sciences, B. S. Abdur Rahman Crescent Institute of Science and Technology, 2 days International Conference on “Smart Materials for Green Energy & Environmental Sustainability is organized during 11-12 December 2024. The conference was presided by Dr. T. Murugesan, Vice Chancellor, BSACIST and felicitated by Dr. N. Raja Hussain, Registrar, BSACIST. *Padma Bhushan* Dr. T. Ramasami, Distinguished Professor of Eminence, Anna university, Chennai and former secretary, DST India has Inaugurated the conference and delivered the inaugural address with mentioning the importance of conference theme, materials towards green energy and environmental sustainability.

During the inauguration address Dr. T. Ramasami has insisted that, every individual researcher has to come forward in coordination towards the development of materials which contribute the reduction in carbon dioxide level and improvement in economic growth without damaging the society and our environment. For that everybody should work together to meet the sustainable development. Conference souvenir was released by the chief guest during the inauguration followed by there are 12 eminent researchers from various academic institutions all over the world has delivered keynote and invited lectures on green energy and environmental sustainability on both the conference dates. Delegates from various institutions and industries were presented their research projects through 110 oral and poster presentations. Best presentations were scrutinized by the conference jury committee and awarded with cash prizes.

The conference arrangements were done by a team consist of conveners **Dr. I. Raja Mohamed, Dean, SPCS, Dr. N. Hajarabeevi, HoD/Chemistry and Dr. G. V. Vijayaraghavan, HoD/Physics, coordinators Dr. M. Mohamed Sheik Sirjuddeen, Associate Professor/Physics and Dr. M. Asha Jhonsi, Associate Professor/Chemistry.** On day two, the valedictory program of the conference was presided by Dr. N. Thajuddin, Pro-Vice Chancellor, felicitated by Dr. Irfan, Deputy Registrar and the valedictory address was delivered by Dr. D. Kalpana, Senior Principal Scientist, CSIR Madras Complex, Chennai. From different universities and colleges around 300 researchers and students were participated in the international conference.





## Program Schedule:

### Technical Program with session-wise details

Time (hrs)	DAY 1 – 11.12.2024 - WEDNESDAY		
08.45 - 09.45	Registration at <b>Lounge II Floor, Convention Centre</b>		
10.00 - 11.00	Inauguration at <b>Seminar Hall 1, Convention Centre</b>		
11.00-11.30	<b>Group Photo (Convention Centre Entrance)</b> followed by <b>Tea Break</b>		
	Technical Session 1, <b>Seminar Hall 1</b>		
11.30 - 12.30	<b>Keynote Lecture 1 (Offline)</b> by <b>Dr. N. Vijayan</b> Sr. Principal Scientist & Professor CSIR-National Physical Laboratory, New Delhi <b><i>Optimizing Growth Conditions to Enhance the Quality of Piezo and Thermoelectric Single Crystals for Energy Applications</i></b> <b><i>Chair: Prof. S. Kutti Rani, Director PG Admissions</i></b>		
	Technical Session 2, <b>Oral Presentations / Poster Presentations</b>		
	<b>Seminar Hall 1</b>	<b>Seminar Hall 3</b>	<b>EEE Seminar Hall</b>
12.30 – 1.15	<b>OP1 - OP 09</b> <b><i>Chair/Judge:</i></b> <b><i>Dr. S. Beer Mohamed &amp; Dr. Sathyamoorthi</i></b>	<b>OP 10 - OP 18</b> <b><i>Chair/Judge:</i></b> <b><i>Dr. Manikandan &amp; Dr. Parthasarathi</i></b>	<b>OP 19 - OP 27</b> <b><i>Chair/Judge:</i></b> <b><i>Dr. V. Kandavelu &amp; Dr. Ashok Kumar</i></b>
	<b>Poster presentation (Lounge II Floor, Convention Centre)</b> <b><i>Judge: PP1 – PP11, Prof. Sathick Basha &amp; Dr. K. Karthikeyan</i></b>		
13.15 – 14.00	<b>LUNCH</b>		
	Technical Session 3		
	Parallel Session		
	<b>Seminar Hall 1 (Offline)</b>	<b>Seminar Hall 3 (Online)</b>	



14.00 – 14.45	<b>Invited Lecture 1 by</b> <b>Dr. Sivakumar Vaidyanathan</b> Associate Professor Department of Chemistry Indian Institute of Technology, Hyderabad <i><b>Molecular Isomers: Single component White Light Luminogens for Smart Lightings</b></i> <i><b>Chair: Prof. C. Tharini, Dean / SECS</b></i>	<b>Invited Lecture 2 by</b> <b>Dr. Veerappan Mani</b> Senior Researcher Centre for Advanced Measurement Research & Health Translation United Kingdom. <i><b>Sustainable Electrode Materials for Electrochemical Sensing Applications</b></i> <i><b>Chair: Prof. Sharmila Sankar, Dean/ SCIMS</b></i>
14.45 – 15.30	<b>Invited Lecture 3 by</b> <b>Dr. S. Beer Mohamed</b> <b>Professor &amp; Dean</b> Materials Science Department Central University of Tamil Nadu <i><b>"Solar Cells: The Key to Sustainable Energy"</b></i> <i><b>Chair : Prof. Siddhi Jailani, Dean, Mechanical Sciences</b></i>	<b>Invited Lecture 4 by</b> <b>Dr. S. Anandan</b> Professor of Chemistry NIT, Trichy <i><b>Zinc tailored Cobalt Prussian Blue Analogue (PBA) as a prospective candidate for Supercapacitor applications</b></i> <i><b>Chair : Prof. S. Bhagavathy, Chemistry</b></i>
	<b>Technical Session 4, Oral Presentations / Poster Presentations</b>	
	<b>Seminar Hall 1</b>	<b>Seminar Hall 3</b>
15.30 – 16.30	<b>OP 28 – 36</b> <i><b>Chair/Judge: Dr. Sivakumar Vaidyanathan &amp; Prof. M. S. Haji Sheik Mohammed, Dean / School of Infrastructure</b></i>	<b>OP 37 - OP 45</b> <i><b>Chair/Judge: Prof. P. Gajalakshmi, Civil &amp; Prof. Vijayaravaprasad, Dean / School of Pharmacy</b></i>
	<b>Tea break</b> <b>Poster Presentations (Lounge II Floor, Convention Centre)</b> <i><b>Judge: PP12 – PP22, Dr. R. Indrajith, Physics &amp; Dr. Vajjiravel / Chemistry</b></i> <i><b>PP23 – PP33, Prof. P. D. Jeyakumar, Mechanical &amp; Dr. Herbert Mabel / Chemistry</b></i>	
	<b>DAY 2 – 12.12.2024 - THURSDAY</b>	
	<b>Technical Session 5, Seminar Hall 1</b>	
09.30 - 10.15	<b>Invited Lecture 5 by</b> <b>Dr. P. Elumalai</b> Professor, Dept. of Green Energy Technology Pondicherry University <i><b>Recent Developments on Electrode Materials for Post-lithium-ion Battery</b></i> <i><b>Chair : Prof: Abdul Majeed, Polymer Engineering, Director (Admissions)</b></i>	

10.15 – 11.15	<b>Key Note Lecture 2</b> by <b>Dr. R. Kothandaraman</b> Professor of Chemistry, IIT Madras, Chennai <b><i>Water Stewardship in Aqueous Flow Batteries</i></b> <b><i>Chair: Prof. Jawahar, Director Sponsored Projects</i></b>	
11.15 – 11.30	<b>Group Photo followed by Tea Break</b>	
	<b>Technical Session 6</b>	
	<b>Parallel Sessions</b>	
	<b>Seminar Hall 1 (Offline)</b>	<b>Seminar Hall 3 (Online)</b>
11.30 – 12.15	<b>Invited Lecture 6</b> <b>Dr. N. Lakshminarasimhan</b> Senior Principal Scientist CSIR-Central Electrochemical Research Institute, Karaikudi <b><i>Interphase &amp; Interface in Electrocereamics for Energy Storage Applications</i></b> <b><i>Chair : Prof: Rasool Mohideen, Mechanical Engineering</i></b>	<b>Invited Lecture 7</b> by <b>Dr. Mohamad Hafiz bin Mamat</b> Professor NANO-ElecTronic Centre (NET), College of Engineering, Universiti Teknologi MARA <b><i>Sustainable Energy Harvesting from Recycled Polystyrene-ZnO Nanocomposites: Triboelectric Nanogenerator Design for Circular Economy Applications</i></b> <b><i>Chair: Dr. Jennath Beevi, HoD / EEE</i></b>
12.15 – 13.00	<b>Invited Lecture 8</b> by <b>Dr. Srinivasan Anandan</b> Senior Scientist, Center for Nanomaterials, ARCI, Hyderabad <b><i>Advancing India's Journey Toward Self-Reliance in Energy Storage Materials: Lab to Semi-Pilot Scale Demonstration of Li-ion Batteries and Supercapacitors</i></b> <b><i>Chair: Prof. Revathi Purushothaman, Chemistry</i></b>	<b>Invited Lecture 9</b> by <b>Dr. Dennis Solomon Balami</b> University Professor Nuclear Physicist University of Maiduguri, Nigeria  <b><i>Green Nuclear Energy and its Sustainability</i></b>  <b><i>Chair: Dr. M. Mohamed Sheik Sirajuddeen, Physics</i></b>
13.00 – 14.00	<b>LUNCH</b>	
	<b>Technical Session 7, Oral Presentations / Poster Presentations</b>	
	<b>Seminar Hall 1</b>	<b>Seminar Hall 3</b>
14.00 – 14.45	<b>OP 46 – 53</b> <b><i>Chair/Judge: Prof. Vinitha &amp; Dr. Swapan K Das / Chemistry</i></b>	<b>OP 54 – 60</b> <b><i>Chair/Judge: Prof. Anbazhagan &amp; Prof. Kanagathara</i></b>
	<b>Poster presentations (Lounge II Floor, Convention Centre)</b> <b><i>Judge: PP34 – PP44, Dr. G. Kannan, HoD / ECE &amp; Prof. Anbuechezhiyan PP45 – PP57, Dr. M. A. Sai Balaji / Mechanical &amp; Dr. A. Shajahan / Chemistry</i></b>	
	<b>Technical Session 8, Seminar Hall 1</b>	

14.45 – 15.30	<b>Key Note Lecture 3</b> by <b>Dr. D. Kalpana</b> <b>Senior Principal Scientist</b> CSIR-Lab, Chennai. CECRI <i><b>Portable Fuel cells with Metal Hydrogen storage as Clean Energy Resources</b></i> <i><b>Chair : Prof. K. Yogeswari / Civil Engineering</b></i>
15.30 – 16.15	<b>Valediction &amp; Oral/Poster Awards Ceremony</b>
16.15 – 16.30	<b>HIGH TEA</b>



### Registration details

S. No	Designation	Amount per head `	No. of participants	Amount `
1	Faculty	2,000	23	46,000
2	Research Scholar	1,500	50	75,000
3	Students	1,000	42	42,000
4	Foreign Delegate	3,400	01	3,400
<b>Total</b>			<b>116</b>	<b>Rs. 1,66,400/-</b>

### Sponsorship details

S. No	Sponsor Details	Amount sponsored
1	Council of Scientific and Industrial Research (CSIR-India)	30,000
2	Tamil Nadu State Council for Science and Technology	25,000
	<b>Subtotal (1)</b>	<b>55,000</b>
3	ELMACK Engg. Services Pvt. Ltd, Chennai	25,000
4	Holmarc Opto Mechatronics Ltd, Kerala, India	23,600
5	Vital Science Industry Madurai	20,000
6	Sudhagar Biologicals, Chennai	15,000
7	BVN Instruments West Tambaram, Chennai	10,000
8	Vijaya Scientific Company, Thuraippakkam, Chennai	10,000
9	Linear Enterprises Alandur, Chennai	10,000
10	Kavin Scientific Products Saidapet, Chennai	10,000
11	Laser Spectra Services Bangalore	10,000
12	RR Lab Instruments (Sastha company) Medavakkam, Chennai	5,000
13	PICO instruments	5,000
14	Sree Andal Scientific Mannivakkam, Chennai	2,000
	<b>Subtotal (2)</b>	<b>1,45,600</b>
15	<b>Alumnus of Crescent</b>	20,000
	<b>Subtotal (3)</b>	<b>20,000</b>
	<b>Subtotal (2+3)</b>	<b>1,65,600</b>
	<b>Total (1 to 4)</b>	<b>2,20,600</b>

<b>Fund source details</b>	<b>:</b>	<b>Amount in Rs.</b>
BSACIST	:	1,00,000
Company Sponsors & Alumni	:	1,65,000
Registration	:	1,66,400
Sub Total 4,32,000		
CSIR	:	30,000
TNSCST	:	25,000
Expected Total Fund	:	<b>4,86,400/-</b>

### **STATEMENT OF EXPENDITURE**

<b>S. No</b>	<b>Head</b>	<b>Company/Receiver Details</b>	<b>Amount in Rs.</b>
1	Brouchure Printing charges	Mubarak Signs, Guduvanchery	14750
2	Advertisement charge Brochure	HoD/Physics	2000
3	Banner	SRS Creators, Vandalur	4300
4	Certificates	SRS Creators, Vandalur	4780
5	Souvenir printing & Copyright	Chennai publishing Services, Chennai	20850
6	Reception flower, sweet, etc	Ultimate Florest & Latta Super Market	1501
7	Invitation printing	Digital Printing, Vandalur	390
8	Registration kit	SRS Creators, Vandalur	7100
9	Stationery items	Sriram & Co, Super Electricals	5285
10	Momentoes	S. S. Foot wears	38816
11	Honorarium, TA/DA, local conveyance	Keynote and invited speakers (14 numbers)	90458
12	Accommodation, transport and hospitality	Hotel SRR Grand & Transport	44504
13	High Tea	Sri Gupta Bhavan Pvt. Ltd.	5692
14	Cash Awards	N. Mahalakshmi, VelTech	1000
		Pauline Ida, SSN College	1000
		Nasreen Sayed, BSACIST	1000
		Saikrishna, SRM	1000
		Dr. K. Yogeswari, BSACIST	1000
		T. Lakshmi, BSACIST	1000
		J. Nishath Begum, VIT Vellore	1000
		Abinaya, SRM	1000
		A. Gayathri Lakshmi, SSN College	1000
15	Poster arrangements	Upgrade, Nerkundram, Chennai	16520
16	Transport charges-chief	Agnisharman Logistics Pvt. Ltd	4200
17	Online link and recording charges	Zoom, ZVC India Pvt. Ltd.	1624
18	Anyother expenses	Advertisement charges, Voucher	2000
19	Conference bag	S. S. Footwear, Guduvancheri	94130
20	Food and refreshments	Crescent Canteen	160884
	<b>Total</b>		<b>399510</b>
	<b>Three Lakhs ninety-nine thousands five hundred and ten only.</b>		

**Details of Participants (SMaGEES 2024)**

S. No	NAME OF THE PARTICIPANT	NAME OF THE INSTITUTION	TITLE OF THE PRESENTATION
1	KISHOREE T	Manakula Vinayagar Institute of Technology, Puducherry	Quantum Dots: Bright future for Environmental Sustainability and Biomedicine
2	DHIYANESHWARI B	Vellore Institute of Technology, Vellore	Synthesis of $K^+$ and Mn Codoped $Cs_2NaInCl_6$ Double Perovskites for White LEDs Application
3	AROCKIA JULIAS A	B. S. Abdur Rahman Crescent Institute of Science and Technology, Chennai	Vibration Study on Cashew shell sandwiched fiber Reinforced Materials
4	SRIVIDYA T	B. S. Abdur Rahman Crescent Institute of Science and Technology, Chennai	Bond Behaviour of FA GGBS based Geopolymer Concrete
5	NISHATH BEGUM J	Vellore Institute of Technology, Vellore	Thermoelectric Properties of Higher Manganese Silicide Synthesized by Molten Salt Shielded Synthesis Method
6	VAISHNAVI CHANDRAN K	Vellore Institute of Technology, Vellore	Effect of Tungsten and Cobalt as dopants to tune the metal insulator transition of $VO_2$
7	SAIKRISHNA V	SRM Institute of Science and Technology	Biocomposite sponges loaded with bioactive small molecules: A sustainable solution for advanced wound healing
8	HARIHARASUDAN S	SRM Institute of Science and Technology, Ramapuram	A Comprehensive Review of Hyperspectral Remote Sensing Images Spectral - Spatial Classification Approaches
9	KAYASHRINI S	Vels Institute of Science, Technology & Advanced Studies (VISTAS), Chennai	Spectroscopic (FT-IR and UV-Vis) Structure Conformation, Electronic Properties, ELF, LOL, RDG Quantum Chemical Computational Investigation of 1,4-Benzenedicarboxylic Acid, Bis(2-Ethylhexyl) Ester $\Gamma$ -Sitosterol and Molecular Docking Analysis of Anti-Cancer
10	HUSSAMULLAH V	B. S. Abdur Rahman Crescent Institute of Science and Technology, Chennai	Modeling and control of pH processes: Comparative Analysis of PID and Fractional PID Controllers
11	HEMASHREE	B. S. Abdur Rahman Crescent Institute of Science and Technology, Chennai	Development of Sustainable Self-Compacting Concrete with Copper Slag as a Partial Replacement for Fine Aggregates: A Green Building Approach
12	KATHIRAVAN A	Vels Institute of Science, Technology and Advanced Studies (VISTAS), Chennai	Inner Filter Effect-Based Sensor for Selective Discrimination of Picric Acid
13	PAULINE IDA P	Sri Sivasubramaniya Nadar College of Engineering, Chennai	Characterization of Solid Biopolymer Electrolyte developed for sustainable Na-based Energy Storage Systems

14	GAJALAKSHMI P	B. S. Abdur Rahman Crescent Institute of Science and Technology, Chennai	Development of Sustainable Self-Compacting Concrete with Copper Slag as a Partial Replacement for Fine Aggregates: A Green Building Approach
15	ANBAZHAGAN V	Vinayaka Mission's Kirupananda Variyar Arts and Science College, Vinayaka Mission's Research Foundation (Deemed to be University), Salem	Synthesis, Characterization and Fluorescent Probe properties of Phenothiazine Derivative
16	JEYAKANTHAN M	Vinayaka Mission's Kirupananda Variyar Arts and Science College, Vinayaka Missions Research Foundation,(Deemed to be University), Salem	Photoluminescence, Magnetic and Electrochemical studies of near white light emitting nanostructured $\text{Sr}_{0.675}\text{Pb}_{0.225}\text{Ca}_{0.1}\text{WO}_4$ mixed solid solution
17	MUKUND V	B. S. Abdur Rahman Crescent Institute of Science and Technology, Chennai	IoT based localized air quality monitoring and prediction for construction sites
18	HEMAMALINI V	B. S. Abdur Rahman Crescent Institute of Science and Technology, Chennai	Investigation of $\text{Fe}_2\text{O}_3/\text{PVDF-HFP}$ nanocomposites for electromagnetic interference shielding in secure communication systems
19	SRINIVASAN V	Vels Institute of Science, Technology and Advanced Studies (VISTAS), Chennai	Anthracene-based Potential Biomaterials: Synthesis, Characterization, Computational and Biological Applications
20	PRITHIKA A	IIBAT, International Institute of Biotechnology & Toxicology, Shanmuga Nagar, Padappai	Valorisation of toxic Methyl Red Dye and its multifarious Applications
21	VISHNUVARATHANAN M	Kalasalingam Academy of research and Education	Development , Physical and mechanical characterization of Tree Bark Nano Powder Reinforced 3D Printed PLA Bio Nanocomposites
22	AJAY G	B. S. Abdur Rahman Crescent Institute of Science and Technology, Chennai	Investigation of the structural, electronic, and magnetic properties of NiSe in cubic phase by incorporating Hubbard U corrections: A DFT+U study
23	CHENTHIS KANISHA C	B. S. Abdur Rahman Crescent Institute of Science and Technology, Chennai	Synthesis of Graphene oxide nanoparticles for enhanced antimicrobial properties against multi drug resistant bacteria
24	RAJAPRAKASH R	Kalasalingam Academy of research and Education	Development , Physical and mechanical characterization of Tree Bark Nano Powder Reinforced 3D Printed PLA Bio Nanocomposites



25	PALANISAMY S	B. S. Abdur Rahman Crescent Institute of Science and Technology, Chennai	Super hydrophobic Polyurethane Nano composite coating for Aluminium Composite Panel- (ACP)
26	NASREEN SAYED	B. S. Abdur Rahman Crescent Institute of Science and Technology, Chennai	Microwave-Assisted Green Synthesis of CuO Nanoparticles: A Rapid and Efficient Approach for Biomedical Applications
27	NIKITHA S	Kalasalingam Academy of research and Education	Development , Physical and mechanical characterization of Tree Bark Nano Powder Reinforced 3D Printed PLA Bio Nanocomposites
28	PERCY J. SEPHRA	B. S. Abdur Rahman Crescent Institute of Science and Technology, Chennai	Highly sensitive pH-dependent electrochemical detection of phosphate ions using CoMoO <sub>4</sub> and Ammonium molybdate-modified electrodes
29	BENITA MERLIN B	Alpha Arts and Science College, Chennai	Theoretical study on the Structural, Electronic and Optical Properties of ABC stacked trilayer 2D Materials: Graphene, Silicene, Germanene and Stanene
30	MOHAMED RIYAZ ALI	B. S. Abdur Rahman Crescent Institute of Science and Technology, Chennai	Characterization and Bioactivity of Cation-Substituted Bioactive Glasses for Bone Tissue Engineering
31	PRAKASHRAJ M	Kalasalingam Academy of research and Education, Srivilliputhur	Development , Physical and mechanical characterization of Tree Bark Nano Powder Reinforced 3D Printed PLA Bio Nanocomposites
32	RAMYASHRI S	B. S. Abdur Rahman Crescent Institute of Science and Technology, Chennai	Realization of flexible pressure sensors based on ZnO nanowires /hybrid bilayers
33	SILVIYA N	Ethiraj College for Women, Chennai	Coprecipitated Ni <sup>2+</sup> doped M-type hexaferrite – a superior catalyst with magnetoelectric properties
34	THENMOZHI R	Mother Teresa Womens University Kodaikanal, Dindigul	A Facile synthesis of Co Nanomaterial from Crotalaria Pallida leaves Extract by Hydrothermal method and their Anticancer, Anti-inflammatory, Antibiofilm, Antifouling and Antibacterial studies
35	KAMESHWARAN A	Sri Ramakrishna Mission Vidyalaya College of arts and science, Periyanaickenpalayam, Coimbatore	Photoinduced interactions of GSH capped CdX Quantum dots (X = S, Se and Te) for Luminescent road marking strips
36	SUDHARSAN M	Sri Ramakrishna Mission Vidyalaya College of arts and science, Periyanaickenpalayam, Coimbatore	Photoinduced interactions of GSH capped CdX Quantum dots (X = S, Se and Te) for Luminescent road marking strips

37	SRAVANTHI R	Ethiraj College for Women, Chennai	Quantum Computational Analysis of Pyridine Carboxylic Acid Derivative and its Interaction with the Silver Clusters
38	ROSARY V	B. S. Abdur Rahman Crescent Institute of Science and Technology, Chennai	An Investigation on Structural and Optical properties of the Green Extract doped Hippuric Acid Single Crystal
39	SHABITHA BANU I	B. S. Abdur Rahman Crescent Institute of Science and Technology, Chennai	An Investigation on Structural and Optical properties of the Green Extract doped Hippuric Acid Single Crystal
40	ARTANBUJ R	B. S. Abdur Rahman Crescent Institute of Science and Technology, Chennai	Effect of Catharanthus Roseus extract on the Physical Properties of Hippuric Acid Single Crystals
41	PACHAYAMMAAL T	B. S. Abdur Rahman Crescent Institute of Science and Technology, Chennai	Development and Evaluation of Hybrid Carbon Black-Silica Fillers in Natural Rubber Matrices for Enhanced Mechanical and Rheological Properties
42	MOHANRAJ.M	Vels Institute of Science, Technology and Advanced Studies (VISTAS), Chennai	Studies on the Growth, Structural, Optical, Thermal, and LDT analysis of Guanidinium Carbonate Single Crystal for Second-Order NLO Applications
43	NOOR AMAN AHRAR MUNDARI	B. S. Abdur Rahman Crescent Institute of Science and Technology, Chennai	Synthesis of Visible Light Active N, F Co-Doped TiO <sub>2</sub> Based Mixed Oxide Photocatalysts for Environmental Remediation
44	POOJITHA V	Ethiraj College for Women, Chennai	A Systematic study on the Effect of Cerium Doping on Bismuth ferrites Structural, and Physical Properties
45	GAYATHRE LAKSHMI A	Sri Sivasubramaniya Nadar College of Engineering, Kalavakkam, Chennai	Synergy of cuboidal In <sub>2</sub> O <sub>3</sub> and cubic TiO <sub>2</sub> as electron transport bilayer in carbon-perovskite solar cell
46	MAHALAKSHMI N	Vel Tech Rangarajan Dr. Sagunthala R & D Institute of Science and Technology, Chennai	Inner Filter Effect-Based Sensor for Selective Discrimination of Picric Acid
47	VISHAL M	B. S. Abdur Rahman Crescent Institute of Science and Technology, Chennai	Enhancing Mechanical and Fire Resistance of Cementitious materials through Graphene oxide
48	MANIVANNAN A	Vel Tech Rangarajan Dr. Sagunthala R & D Institute of Science and Technology, Chennai	Sustainable concrete solutions using bacterial Geopolymerization of Industrial By-Products
49	REVATHI G	Vel Tech Rangarajan Dr. Sagunthala R & D Institute of Science and Technology, Chennai	DFT Investigation of Cyclohexanone, 2,3-dimethyl-2-(3-oxobutyl)- And Molecular Docking for Anti-Cancer Activity
50	DIANA J	B. S. Abdur Rahman Crescent Institute of Science and Technology, Chennai	Recycling of used mobile phone temper glass into carbonaceous nanomaterial towards luminescent road marking strip: Scrap to Score
51	PAVITHRA K	IIBAT, International Institute of	Valorisation of toxic Methyl Red Dye and its multifarious

		Biotechnology & Toxicology, Shanmuga Nagar, Padappai	Applications
52	MOHAMED HISAM R	Vels Institute of Science and Technology & Advanced Studies, (VISTAS), Chennai	Theoretical and experimental study on 6-(3,3-Dimethyl-oxiran-2-ylidene)-5,5-dimethyl-hex-3-en-2-one compound: Its optimization with DFT and structural and spectroscopic investigation, HOMO-LUMO, MEP, atomic charge, and NBO analysis
53	JEFFRIN JA LAURA	Vels Institute of Science and Technology & Advanced Studies, (VISTAS), Chennai	Quantum Chemical Computation Calculations, Structural, Spectroscopic Characterization, Molecular Docking and HOMO-LUMO studies of 11,4-Methanoazulene-9-methanol, decahydro-4,8,8-trimethyl-, [1S-(1 $\alpha$ ,3 $\alpha$ ,4 $\alpha$ ,8 $\alpha$ ,9R*)]
54	POORNIMA K	Vel Tech Rangarajan Dr. Sagunthala R & D Institute of Science and Technology, Chennai	Anthracene-based Potential Biomaterials: Synthesis, Characterization, Computational and Biological Applications
55	RAJPRAKASH R	Kalasalingam Academy of Research and Education Krishnankovil, Srivilliputtur	Development, Physical and Mechanical Characterization of Tree Bark Nano Powder Reinforced 3D Printed PLA Bio Nanocomposites
56	MEERA A	Sri Sivasubramaniya Nadar College of Engineering, Kalavakkam, Chennai	Synergistic effects of Z-scheme band engineering for enhanced hydrogen evolution in TiO <sub>2</sub> based ternary nanocomposite
57	PAVITHRAA R	Anna University-BIT Campus, Tiruchirappalli	Development of organic semiconductor-tailored transition metal phosphides and Application of electrochemical hydrogen evolution and photocatalytic degradation
58	ABDULLAH R	Anna University –BIT Campus, Tiruchirappalli	Metal based bio-nanocomposite for Biological & Environmental Application
59	TAMILARASI R	SRM Institute of Science and Technology, Kattankulathur, Chennai	Investigating the role of aluminium doping in Ca <sub>3</sub> Co <sub>4</sub> O <sub>9</sub> for enhanced supercapacitor applications
60	SUGUNA P	Vel Tech Rangarajan Dr. Sagunthala R&D Institute of Science and Technology, Chennai	Investigating the Interaction between 9-Aminoacridine and Reduced Graphene Oxide
61	GAJALAKSHMI T	SRM Institute of Science and Technology	Development of Food Waste-Derived Electrode Material for Energy Storage Applications
62	KAVYA G	Saveetha College, Chennai	A Study on Waste Water Treatment with Special Reference to Chennai



63	VISHWA PREETHI V S	B. S. Abdur Rahman Crescent Institute of Science and Technology, Chennai	Effect of <i>Catharanthus Roseus</i> extract on the Physical Properties of Hippuric Acid Single Crystals
64	LAVANYA Y	B. S. Abdur Rahman Crescent Institute of Science and Technology, Chennai	An Investigation on Structural and Optical properties of the Green Extract doped Hippuric Acid Single Crystals
65	ASHWIN K	B. S. Abdur Rahman Crescent Institute of Science and Technology, Chennai	Smart Earthing Monitoring System for Enhanced Electrical Safety
66	NAGARAJAN N	Government Polytechnic College, Keezhapalur, Ariyalur	Synthesis and Characterisation of 2-(trifluoromethyl)pyrimidine and Carbazole based D-A-D Fluorophore
67	SHAHITHA PARVEEN J	B. S. Abdur Rahman Crescent Institute of Science and Technology, Chennai	Development and Characterization of Poly (vinyl) alcohol-based Hydrogel with long term biocompatibility for skin wound repair
68	DAULATH BANU R	B. S. Abdur Rahman Crescent Institute of Science and Technology, Chennai	Studies on Dynamic Properties of Polypropylene /Al-C LDH /GNPs Hybrid Composites
69	MOHAMED BAK K	B. S. Abdur Rahman Crescent Institute of Science and Technology, Chennai	Synerization of Tal Palm Fiber and Coir Fiber with Combination of Tamarind Seed Powder and Nanoparticles Reinforced Epoxy Composite Material and Change in its Mechanical Attributes
70	PADMAVATHY	Thiru Kolanjiappar Government Presentation	Co Doped Haematite Nanoparticles Crystallographical Optical Morphological Magnetic Properties and Application for Antibacterial Activity
71	SUJATHA DEVI S	Periyar Arts College , Cuddalore	Effect of Dariegated Groundnut Shell Ash Incorporation on the Technological Properties of Fried Clay Bricks
72	MAHALAKSHMI V	Thiru Kolanjiappar Government Presentation	Effect of Dariegated Groundnut Shell Ash Incorporation on the Technological Properties of Fried Clay Bricks
73	GOPINATHAN N	Adhiyaman College of Engineering	Analysis of structural, morphological and optical properties of $\text{Rb}_3\text{Bi}_2\text{I}_9$ perovskite-structured semiconductors for optoelectronic applications
74	SARAVANAPERUMAL.V	Manakula Vinayagar Institute of Technology, Puducherry	Carbon dioxide Capture
75	PRIYADHARSHINI SIDDARTH	Manakula Vinayagar Institute of Technology, Puducherry	Carbon dioxide Capture

76	CATHERINE SHALOM.G	Manakula Vinayagar Institute of Technology, Puducherry	Carbon dioxide Capture
77	MOHANA KRISHNA . C	Manakula Vinayagar Institute of Technology, Puducherry	Carbon dioxide Capture
78	BHAGYASHRI.K	SRM Institute of Science and Technology, Kattankulathur, Chennai	Carbon Quantum Dots Incorporated Aloe Vera Hydrogel for Effective Wound Healing
79	RAMAPRIYA. C	Mother Teresa Womens University Kodaikanal,	A Facile Synthesis Of Co Nanomaterial from <i>Crotalaria Pallida</i> leaves Extract by Hydrothermal Method and Their Antiulcer, Anticancer, Anti-inflammatory, Antibiofilm, Antifouling and Antibacterial Studies
80	VEERA MUTHAMMAL	B. S. Abdur Rahman Crescent Institute of Science and Technology, Chennai	Synthesis, characterization and antimicrobial activity of Zn(II) complex incorporating adamantylazo Schiff base ligand
81	YOGESWARI.K	B. S. Abdur Rahman Crescent Institute of Science and Technology, Chennai	Investigating the synergy of LLDPE and Photovoltaic cells in Roof Tile Applications
82	SOWMIYA NARAYAN .K	Manakula Vinayagar Institute of Technology, Puducherry	Quantum Dots: Bright future for Environmental Sustainability and Biomedicine
83	YOGAPRIYA.S	Vinayaka Mission's Kirupananda Variyar Arts and Science College, Vinayaka Mission's Research Foundation (Deemed to be University), Salem	Invasion of Zinc in BiFeO <sub>3</sub> /Bi <sub>25</sub> FeO <sub>40</sub> Perovskite-Structured Material as an Efficient Electrode for Symmetric Supercapacitor
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85	VENKATRAMANAN KUMAR	CSIR- Central Leather Research Institutev(CLRI)	Water soluble sulphur quantum dots: A novel approach to fibrillation inhibition and latent fingerprint visualization
86	ARUN DANIEL	B. S. Abdur Rahman Crescent Institute of Science and Technology, Chennai	Effect of <i>Catharanthus Roseus</i> extract on the Physical Properties of Hippuric Acid Single Crystals
87	PADMAVATHI.R	B. S. Abdur Rahman Crescent Institute of Science and Technology, Chennai	Super Hydrophobic Carbonaceous Nanomaterials for Surface Coatings
88	ABINAYA	SRM Institute of Science and Technology, Kattankulathur, Chennai	A novel approach for profiling of nature-inspired and bioactive proteins and peptides isolated from selected medicinal plants as bio-factories and their implications in Alzheimer diseases by <i>in-silico</i> analysis
89	PINKI KUMARI SINGH	SRM Institute of Science and Technology, Kattankulathur, Chennai	Insights into metabolites & hormonal regulation in <i>Lagenaria siceraria</i> for agricultural sustainability

90	LILLY PRIYADHARSHINI.M	B. S. Abdur Rahman Crescent Institute of Science and Technology, Chennai	An Investigation on Structural and Optical properties of the Green Extract doped Hippuric Acid Single Crystals
91	MAHALAKSHMI.S	B. S. Abdur Rahman Crescent Institute of Science and Technology, Chennai	A tool for Estimate the Carbon footprint Calculation for Flexible Pavement Construction in India
92	MOHAMMED THOUFEEQUE P K	B. S. Abdur Rahman Crescent Institute of Science and Technology, Chennai	PVDF based polymer nanocomposites for Flexible Electronics Application
93	GEETHA A	SRM Institute of Science and Technology, Kattankulathur, Chennai	Investigating the role of aluminium doping in $\text{Ca}_3\text{Co}_4\text{O}_9$ for enhanced supercapacitor applications
94	ABDUL MAAJITH B	B. S. Abdur Rahman Crescent Institute of Science and Technology, Chennai	Smart Earthing Monitoring System for Enhanced Electrical Safety
95	SHABITHA BANU I	B. S. Abdur Rahman Crescent Institute of Science and Technology, Chennai	An Investigation on Structural and Optical properties of the Green Extract doped Hippuric Acid Single Crystals
96	INZAMAM UL HAQ A PG Student	B. S. Abdur Rahman Crescent Institute of Science and Technology, Chennai	Participation
97	ASHKAR M A Research Scholar	B. S. Abdur Rahman Crescent Institute of Science and Technology, Chennai	Participation
98	MOHAMMED THOUFEEQUE P K PG Student	B. S. Abdur Rahman Crescent Institute of Science and Technology, Chennai	Participation
99	STANLY ZACHARIAH Research Scholar	B. S. Abdur Rahman Crescent Institute of Science and Technology, Chennai	Participation
100	SYMONDS FRADRICK J Research Scholar	B. S. Abdur Rahman Crescent Institute of Science and Technology, Chennai	Participation
101	MOHAMMED BASHEER ALI Research Scholar	B. S. Abdur Rahman Crescent Institute of Science and Technology, Chennai	Participation
102	LAKSHMI T Research Scholar	B. S. Abdur Rahman Crescent Institute of Science and Technology, Chennai	Participation
103	SUJITHRA S Research Scholar	B. S. Abdur Rahman Crescent Institute of Science and Technology, Chennai	Participation
104	MOHAMED ASHIK Research Scholar	B. S. Abdur Rahman Crescent Institute of Science and Technology, Chennai	Participation



105	SAKTHIVEL ANAND Research Scholar	B. S. Abdur Rahman Crescent Institute of Science and Technology, Chennai	Participation
106	DINESH PG Student	B. S. Abdur Rahman Crescent Institute of Science and Technology, Chennai	Participation

107	RAMYASHRI S Research Scholar	B. S. Abdur Rahman Crescent Institute of Science and Technology, Chennai	Participation
108	AJAY G Research Scholar	B. S. Abdur Rahman Crescent Institute of Science and Technology, Chennai	Participation
109	PALANISAMY S Research Scholar	B. S. Abdur Rahman Crescent Institute of Science and Technology, Chennai	Participation
110	PACHAYAMMAAL T Research Scholar	B. S. Abdur Rahman Crescent Institute of Science and Technology, Chennai	Participation
111	VEERA MUTHAMMAL V Research Scholar	B. S. Abdur Rahman Crescent Institute of Science and Technology, Chennai	Participation
112	ROSARY V PG Student	B. S. Abdur Rahman Crescent Institute of Science and Technology, Chennai	Participation
113	SHABITHA BANU I PG Student	B. S. Abdur Rahman Crescent Institute of Science and Technology, Chennai	Participation
114	ARTAN BUJ R PG Student	B. S. Abdur Rahman Crescent Institute of Science and Technology, Chennai	Participation
115	PADMAVATHI R PG Student	B. S. Abdur Rahman Crescent Institute of Science and Technology, Chennai	Participation
116	MOHAMED RIYAZ ALI PG Student	B. S. Abdur Rahman Crescent Institute of Science and Technology, Chennai	Participation



## Conference related Photos:









## Alkemia Association Inaugural Lecture

### October 7, 2024

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#### Alkemia Report: Inaugural Lecture October 7, 2024

The Alkemia Association Inaugural lecture was held on 7<sup>th</sup> October 2024. The lecture was delivered by the guest speaker Dr. P. Venkateswaran, Team Member in Sri City Operations, focusing on environmental and sustainability initiatives. His title of the presentation is "Sustainable Development and Climate Change Mitigation: Insights and Case Study from Industrial Zones"

The Inaugural Lecture covered the following topics.

- The program was started through the Qirath, Mr. I. Mohamed Ashik, Research Scholar.
- The welcome address was delivered by Prof. N. Hajarabeevi, HOD of Chemistry.
- Prof. Kuti Rani, Director, PG Admissions had given a speech about Alkemia Activities.
- Presentation of Memento to the guest speaker was given by Prof. I. Raja Mohamed, Prof. N. Hajarabeevi, Prof. S. Kuti Rani and Dr. Swapan Kr. Das and Dr. Jasmine Jacob.
- Dr. Swapan Kumar Das, Coordinator of the Alkemia Program has given a brief introduction to the guest speaker, Dr. P. Venkateswaran
- More than 48 M. Sc. in Chemistry students, research scholar and faculty members of department of chemistry were participated in this program.
- The presentation was on sustainable development and climate change. The preWhat sustainable development, its importance, reasons for current environmental crisis, GHG emission and global warming, global land-ocean temperature, pillars of sustainable development, UN's 17 sustainable development goals, the Paris Agreement: the world's climate action plan, importance in the business world, development concept for industrial park, work – live – learn – plays strategies, quality civic & social infrastructure, water - a powerful element, annual water budget sharing (%), consumption of resources & re, reduce, reuse, recycle, refuse, bio-methanation, landscaping practices, miyawaki plantations, sustainable power and renewable energy, sustainable transport, solar based applications, what are the rewards ? and future directions.
- Discussed about the job opportunity and guideline to get the job to the industry.
- Today's program was very informative, extensively knowledgeable, and inspired and motivated students and ultimately it was a successful one.
- Students of the M. Sc. III-semester and I-semester participate in different events.
- First event - complete the entire Periodic Table and award has been given to the 1<sup>st</sup>, 2<sup>nd</sup> and 3<sup>rd</sup> position of students of the M. Sc. III-semester and I-semester.
- Second event - identification of renowned scientist and express about their research contribution. Gift has been to them whoever has given correct answer.

- Then, the vote of thanks by Dr. Jasmine Jacob, Assistant Professor of the Department of Chemistry and entire program anchored by Ms. Meena and Ms. Aafiya.



