

## Invited Speakers

**Prof. Thangarasu Pandiyan, Ph.D.,**

National Autonomous University of Mexico (UNAM), Faculty of Chemistry  
Mexico City, Mexico



**Prof. M. N. Ponnusamy, Ph.D., D.Sc.**

Emeritus Professor, Centre for Advanced Studies in Crystallography and Biophysics  
University of Madras, Guindy Campus, Chennai

**Prof. S. Gunasekaran, Ph.D., D.Sc.**

Dean (R&D), St. Peter's Institute of Higher Education and Research  
Avadi, Chennai



**Prof. M. Selvapandiyan, Ph.D.**

Department of Physics, Periyar University Centre for PG & Research Studies  
Dharmapuri

**Dr. S. Beer Mohamed**

Associate Professor, Department of Materials Science, School of Technology  
Central University of Tamil Nadu, Thiruvarur



**Dr. P. Janani, Ph.D**

Instructional Designer, Head (Academics), Ectian Contents Private Limited  
Mumbai

## Call for Abstracts

The authors intending to participate in this conference are requested to send their abstracts of their research findings within **250-300 words (MS Word, 12pts, Times New Roman with 1.5 line spacing)** on all topics related to the focused areas to [icrtms2024@gmail.com](mailto:icrtms2024@gmail.com) on or before 20<sup>th</sup> December 2023. The abstracts will be reviewed by an expert committee and only a select few will qualify for presentation. Proceedings with ISSN number shall contain the selected abstracts of oral/ poster presentations and invited talks. The posters should be of 90 x 120 cm size. The contents should be legible and clearly printed. Prizes will be awarded for the best presentations.

*Note: A book of abstracts will be released at the conference, and the selected papers will be brought out as a Proceedings.*

## Important Dates

Submission of Abstracts : 20.12.2023  
Intimation of Acceptance : 23.12.2023  
Last date for Registration : 26.12.2023

## Awards

ISPA Veteran Scientist Award  
ISPA Life Time Achievement Award  
ISPA Dr. S. Gunasekaran Award  
Best Presentation Awards

## For Communication

Dr. A. Mohamed Saleem  
Convenor, ICRTMS-2024  
PG & Research Department of Physics  
Jamal Mohamed College (Autonomous)  
Tiruchirappalli-620 020  
E-mail id : [icrtms2024@gmail.com](mailto:icrtms2024@gmail.com)  
Mobile No: 9443836947

## Registration

Students & Research Scholars – Rs. 300  
Faculty Members – Rs. 500

The registration fees can be paid either through Demand Draft in favour of "Jamal Mohamed College" payable at Tiruchirappalli or through Netbanking to the following account as given below. If the registration fee is paid through Netbanking, then the UPI Transaction Identity has to be quoted in the registration form. Interested participants from other states (other than Tamil Nadu) may be permitted to attend the conference online upon request.

Account Number : 046702000000009  
Account Name : Jamal Mohamed College  
IFSC Code : IOBA000467  
Bank & Branch : IOB, JMC Branch, Tiruchirappalli  
No TA/DA will be provided



# Jamal Mohamed College (Autonomous)

Accredited with A++ Grade by NAAC (4<sup>th</sup> Cycle) with CGPA 3.69 out of 4.0  
(Affiliated to Bharathidasan University)  
Tiruchirappalli – 620 020. India



## International Conference on Recent Trends in Materials Science (ICRTMS – 2024)

4<sup>th</sup> January, 2024



Organized by  
**PG & Research Department of Physics**  
In Association with

**Indian SpectroPhysics Association (ISPA)**  
Chennai, India



### About the Institution

Jamal Mohamed College (Autonomous), Tiruchirappalli, India - a religious minority institution, was founded in the year 1951. From a humble beginning seven decades ago, the college has grown from strength to strength and is presently a multi-disciplinary institution offering higher education to a large section of society. The college was granted autonomy status by the UGC, Government of Tamil Nadu and its affiliating university(Bharathidasan University), from the academic year 2004-2005. The college has been supported under various central schemes such as the DST-FIST, DBT-Star College Scheme, UGC-NSQDF. During 2023 it bagged the 56<sup>th</sup> Rank in NIRF. Currently it is accredited with A++ Grade by NAAC (4<sup>th</sup> Cycle) with CGPA 3.69 out of 4.0.

### About the Department

The Department of Physics with its excellent infrastructural and laboratory facilities and well qualified staff, is offering UG, PG, M. Phil. and Ph. D. programmes. Taking advantage of the autonomy granted to the college and in cognizance of the emerging trends in Physics research and education, the department has been introducing new courses catering to the academic and employment aspirations of its students. With DST FIST financial assistance, the department has added FTIR Spectrometer to foster in-house research. It has entered into partnership (MOUs) with premier institutes to facilitate information interchange among the students, scholars and staff. The Vainu Bappu Astronomical Club, HAM Radio Club, Science Siragagul Team of the department cater to the variegated interest of the students, strengthening their knowledge base and building in them leadership qualities.

### About ISPA

**Indian SpectroPhysics Association (ISPA)** is a brain child of Veteran Professor and Scientist **Dr. S. Gunasekaran**. **ISPA** was started on April 23, 1998, it is a registered society under whose auspices, conferences, workshops and seminars are organized. **ISPA** is the peak of a strong belief that enlightening young minds and empowering them to pursue research through Spectroscopy. **ISPA** has an enviable record of having organized **16 International conferences** and **18 National Conferences**. **ISPA** also has organized **20 State Level Technical Seminars** in Physical Sciences for PG and M.Phil. students, since 1999. Indian SpectroPhysics Association (ISPA) finds its place in encouraging renowned and young scientists by honouring them with **ISPA Awards** in the recognition of the research findings of the scientists. **Dr. S. Mohan Awards, 15 Veteran scientist Awards, 54 Life Time Achievement Awards and 84 ISPA Dr. S. Gunasekaran Awards** are given to researchers who have made excellent contributions in the field of Research, during Conferences/ Seminars organized by ISPA. Visit [www.ispa.org.in](http://www.ispa.org.in) for more details.

### Focus of the Conference

International Conference on Recent Trends in Materials Science is organized to facilitate young students and scholars to interact with renowned scientists, researchers and experts in the field of Materials Science, to learn from and help themselves get initiated into the field of academics and higher research. The young and budding scientists are provided opportunities through poster and paper presentations to present their findings, get them peer reviewed by the best in the field so as to instil in them confidence and enthusiasm for meaningful research.

### Focussed Areas

- |                     |                         |                          |                             |
|---------------------|-------------------------|--------------------------|-----------------------------|
| - Spectroscopy      | - Instrumentation       | - Modelling & Simulation | - Surface Engineering       |
| - Crystal Growth    | - Luminescent Materials | - MEMS Design            | - Sensor & Smart Materials  |
| - Crystallography   | - Magnetic Materials    | - Nanotechnology         | - Superconducting Materials |
| - Bio Physics       | - Molecular dynamics    | - Nonlinear Optics       | - Semiconductor Materials   |
| - Medical Physics   | - DFT Analysis          | - Optoelectronic Devices | - Solar Technology          |
| - Ceramic Materials | - Materials Science     | - Photocatalysts         | - Transport Properties      |
| - Drug Design       | - Theoretical Physics   | - Polymer Composites     | - Thin Film Technology      |

### Chief Patron

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**Founder President, ISPA**

### Convenor

**Dr. A. Mohamed Saleem**

**Head, PG and Research Department of Physics**

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